Catalogue of the papers and correspondence of

Peter Dennis Mitchell FRS

(1920 - 1992)

VOLUME III

Section G

by Alan Hayward, Adrian Nardone and Timothy E. Powell

NCUACS catalogue no. 65/3/97

SECTION G **CORRESPONDENCE** **G.1-G.1232**

The following alphabetical arrangement of correspondence was derived from the main correspondence sequence of the Glynn Research Institute. Material relating to visits, conferences and lectures can also be found within the sequence.

G.1 **Abbot, M. T.** 1990-1991

Abraham, Sir E.P. 1960

Correspondence *re* the organisation of an exhibit on antibiotics for the Royal Society Tercentenary Conversazione.

Acker, H. 1984-1985

Correspondence *re* oxygen sensing mechanisms in tissues.

G.2 **Acland, J. D.** 1969

Correspondence *re* views on transport and metabolism.

Adam, K. M. G. 1967

Adam wrote to Mitchell about the desire of her nephew, I. West, to work with Mitchell.

Addanki, S. 1968

G.3 **Adler, J.** 1974-1975

Agar, J. N. 1967

Ahmad, F. 1964

Åkerman, K. 1976-1978

Correspondence

G.4	**Al-Awqati, Q.**	1974
	Albers, R. W.	1966
	Albery, W.J.	1984
	Correspondence *re* ion discharges in non-conducting fluids.	
	Albracht, S. P. J.	1979
G.5	**Albritton, E. C.**	1966
	Aldridge, W. N.	1962, 1972, 1978-1979
	Ali, M.	1989
G.6, G.7	**Allchin, D.**	1989-1991
G.6	Correspondence *re* 'ox-phos controversy', including draft synopsis of thesis.	
G.7	Draft thesis.	
G.8, G.9	**Allison, W. S**	1979-1981
G.8	1979-1980. Correspondence *re* recommendation; editorial refereeing of papers by Allison.	
G.9	1981. Refereeing grant application.	

Correspondence

G.10-G.14 **Altendorf, K.** 1971-1989

G.10 1971-1974, 1984. Includes correspondence *re* Mitchell's role in communicating a paper by Altendorf to *Proceedings of the National Academy of Sciences,* 1984; draft of 'Subunit b of the membrane moiety (F_0)...' by E. Schneider and K. Altendorf, 23pp typescript.

G.11-G.13 1984-1988. Correspondence *re* Mitchell's role in communicating papers by Altendorf to *Proceedings of the National Academy of Sciences.* 3 folders.

G.14 *ca.*1988. 'Bafilomycins: a New Class of Inhibitors...' by K. Altendorf *et al*, 21pp typescript draft with figures.

G.15 **American Philosophical Society** 1974

Amzel, L. M. 1982

Anderson, R. M. 1962

Anderson, W. W. 1987

Angell, A. R. 1978-1979

Correspondence *re* tapping new energy sources.

Anraku, Y. 1988

G.16, G.17 **Anthony, C.** 1980-1981, 1988

G.16 1980. Recommendation.

G.17 Correspondence *re* request for Mitchell to write a foreword to Anthony's book *Bacterial Energy Transduction*, 1988.

Correspondence

G.18 **Anti-Defamation League of B'Nai B'rith** 1989

Appleyard, Sir R. K. 1984-1986

Includes correspondence *re* the European Information Market and Innovation Directorate.

Applied Photophysics Ltd. 1983

G.19 **Apps, D. K.** 1982

Archer, P. 1985

G.20-G.23 **Armitage, J. P.** 1985-1989

G.20 1985-1986. Correspondence *re* lecture materials.

G.21 'Motility, chemotaxis...' by J.P. Armitage *et al*, 22pp typescript draft with figures.

G.22 1986. Refereeing grant application.

G.23 1989. Refereeing grant application.

G.24 **Arnon, D. I.** 1962, 1974, 1978-1981

G.25 **Arrabaca, J. D. C.** 1978

Asherson, N. 1981

Ashmore, P. G. 1989

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Correspondence

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	Askonas, I.	1974, 1978-1979
	Associated Scientific Publishers (ASP)	1974
G.26	**Association of Chinese Students and Scholars at Yale**	1989
	Atkinson, D.	1979
	Atkinson, M. R.	1966-1967
	Avron, M.	1979
G.27-G.31	**Azzi, A.**	1966-1992
G.27	1966-1987.	
G.28, G.29	1983. Enclosures from letter of 9 February 1983 in G.27. 2 folders.	
G.30	1987. 'Studies on the Transmembrane...' by Azzi *et al* typescript draft sent to Mitchell for comment; manuscript notes; letter *re* paper, 23 November 1987.	
G.31	1991-1992. Recommendation.	
G.32	**Azzone, G. F.**	1965-1989
G.33	**Bachelard, H. S.**	1967, 1980
	Bachofen, R.	1977
	Bahadur, K.	1966

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Correspondence

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	Bailey, J. L.	1966
	Baker, N. H.	1978-1979
G.34, G.35	**Baltscheffsky, H.**	1965-1972, 1979
G.34	Includes correspondence *re* chemiosmotic hypothesis.	
G.35	'Energy Coupling...' by Baltscheffsky, 16pp typescript.	
G.36	**Banaras Hindu University**	1991
	Bangham, A. D.	1961-1991
G.37	**Banks, B.**	1971
	Bannister, W. H.	1966-1979
G.38, G.39	**Barber, J.**	1970-1990
G.38	1970, 1977-1981.	
G.39	1983-1990.	
G.40	**Barlow, H.**	1979
	Barnard, T.	1968
	Barnett, J.	1962-1963

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Correspondence

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Barnett, S. A. 1966

Barr, C. E. 1972

Bass, R. E. 1980

Basu, A. 1981-1984

G.41 **Bath University** 1967

Correspondence *re* practical experience for undergraduate students.

Bäuerlein, E. 1981-1982

G.42-G.52 **Baum, H.** 1966-1991

Baum was a co-director of Glynn Research Limited and Foundation Professor of Biochemistry at Chelsea College, University of London.

G.42 1966-1967. Includes correspondence *re* chemiosmosis; correspondence *re* exchange of letters with Baum in *Nature*.

G.43 1971-1974. Includes correspondence *re* Glynn Research Institute; discussion of chemiosmosis; New York Academy of Sciences Conference on 'Mechanism of Energy Transduction in Biological Systems', New York City, 7-9 February 1973, see F.49.

G.44 1975-1978. Includes correspondence *re* Glynn Research Institute and its funding; council meetings; and Nobel prize.

G.45 1979-1981. Includes correspondence *re* Glynn Research Institute and its funding.

Correspondence

G.46 1982. Includes correspondence *re* Mitchell's open letter to Sir Jeremy Morse, see D.328, D.329, G.713.

G.47 1984.

G.48 1985. Includes diagrams of Q loop and Q cycle/O loop and O cycle mechanisms.

G.49 1985. Includes correspondence *re Bibliog.* M-W1985d, see also D.170, D.171.

G.50 1986. Includes correspondence *re* paper by Baum; 14pp typescript draft.

G.51 1987-1988. Includes correspondence *re* publications and the appointment of M.J. Williams to the council, see G.1175.

G.52 1989-1991. Includes correspondence *re* 'Perspectives in Vectorial Metabolism and Osmochemistry', *Bibliog.* M1991k, see D.207-D.212; Glynn Research Ltd council meetings.

G.53 **Baxendale, E.** 1982

Baykov, A. A. 1982-1983

Beall, P. T. 1979-1981

Includes correspondence *re* contract proposal to the Office of Naval Research. See also B.103-B.105.

Correspondence

G.54 **Beardmore-Gray, M.** 1978

Beautyman, W. 1982, 1989

Bechmann, G. 1991

Beckers, H. L. 1988-1989

Beckers was Group Research Co-ordinator for Shell International Petroleum Co.

G.55, G.56 **Beechey, R. B.** 1966-1979, 1988

Beechey was Principal Scientist at the Woodstock Agricultural Research Centre of Shell Research Limited.

G.55 1966-1978. Correspondence *re* research.

G.56 1977. Recommendation; refereeing grant application.

G.57 **Beinert, H.** 1975-1992

Beinfeld, M. C. 1969-1971

Bell, D. J. 1985

Bell, D. 1983

Bellamy, D. 1962

Bendall, D. S. 1978-1987

Bendall worked at the Department of Biochemistry, Cambridge.

Includes correspondence *re* the Dynamic Molecular Modelling project at the Glynn Research Institute.

Correspondence

G.58 **Benesch, R. E.** 1990

Correspondence *re* the function of the tripeptide glutathione with reference to the chemiosmotic theory.

Benjamin, A. 1988

G.59 **Bennun, A.** 1976-1986

Bennun was Associate Professor in the Department of Zoology and Physiology at Rutgers, The State University, Newark, New Jersey.

Includes correspondence *re* recommendations, 1976, 1986.

G.60 **Berden, J. A.** 1975-1976

Berg, H. 1988

Berger, R. 1974-1979

Berlin, Technische Universität 1985

G.61 **Bernadotte, Count L.** 1979-1989

Correspondence *re* Nobel prize-winner gatherings at Lindau, West Germany, see F.162, F.217-F.220 and F.306.

G.62 **Bernhard, S. A.** 1988

Berry, E. A. 1980

Bertsch, W 1966

G.63 **Bessanov, B. I.** 1988-1989

Correspondence seeking Mitchell's help in submitting a paper to *Nature*.

Correspondence

G.64 **Bettelheim, F. A.** 1979

Beyer, R. E. 1970

Bibikov, S. 1989

Bielawski, J. 1968

Correspondence *re* supplies of the research material Triton X.

Biggs, A. 1987-1988

Correspondence *re* grant awarding bodies.

Bird, A. F. 1978-1979

Birt, L. M. 1965

G.65 **Bittar, E. E.** 1962-1988

Includes correspondence *re* Mitchell's *Nature* article, *Bibliog.* M1961b; papers and possible publications by Mitchell.

G.66 **Black, Sir J.W.** 1988-1991

Winner of the 1988 Nobel Prize for Medicine.

Correspondence *re* Black's becoming a Patron of the Glynn Research Foundation.

Blair, P. V. 1966

Board, R. G. 1979

Correspondence

G.67, G.68 **Bockris, J. O'M.** 1974-1984, 1991

G.67 1974-1984. Includes correspondence *re* scientific issues arising in 'An Electrochemical Model of Biological Energy Storage' by Bockris and M.S. Tunuli, with 7pp typescript draft with figures.

G.68 1984, 1991. Includes correspondence *re* history and development of issues relating to fuel-cells, electrochemistry and chemiosmosis.

G.69 **Bodmer, Sir W.F.** 1988-1989

Bodmer was Director of Research at the Imperial Cancer Research Fund Laboratories.

Correspondence *re* improving understanding of science.

Bodmin School 1990

G.70, G.71 **Bonner, W. D.** 1968, 1979

G.70 1968.

G.71 1979. Refereeing grant application.

G.72-G.74 **Booth, I. R.** 1980-1990

G.72 1980-1984. Recommendations.

G.73 1984-1985. Recommendations.

G.74 1988, 1990. Recommendation.

Correspondence

G.75	**Bor, N. M.**	1964
	Borisov, A. Y.	1974
	Bose, S. K.	1979
	Böszörmény, Z.	1964
	Bowyer, J. R.	1980-1981
G.76-G.81	**Boyer, P. D.**	1961-1987

Boyer was Professor of Biochemistry at University of California, Los Angeles. See also D.102-D.104.

G.76-G.80 1961-1979. 'File 4'. Contents of folder so inscribed, divided into five for ease of reference. Much of the correspondence concerns Mitchell's participation in what was known as the 'joint review', 'annual review' or 'group review'. This was in fact a combination of papers by leading scientists *re* current thinking on Oxidative Phosphorylation and Photophosphorylation to appear in the *Annual Review of Biochemistry* **46** edited by Boyer *et al*, *Bibliog.* M1977e, see D.102-D.108.

G.76 1961-1974. Correspondence *re* mechanisms of oxidative phosphorylation and sources of the research material aurovertin.

G.77 1974.

G.78 1974-1975. Includes correspondence *re* coupling mechanisms.

G.79 1975.

G.80 1975-1979. Includes further correspondence *re* ATP synthesis; 'A Model for Conformational Coupling...' by Boyer, 16pp typescript; 'Energy Transduction...' by Boyer, 8pp typescript.

Correspondence

G.81 1984-1987. 'As 1979 File 3 Now see File 4'. Contents of folder so inscribed. Includes correspondence *re* aspects of chemiosmotic concept, mainly the ATP synthase mechanism; colour photograph of Glynn House and Celtic Cross with covering letter from Lynda Boyer, 9 September 1984.

G.82 **Bradbeer, J. W.** 1976

G.83 **Brand, M. D.** 1978-1986

Refereeing grant application, 1986; etc.

G.84 **Braude, B. B.** 1989

G.85, G.86 **Brierley, G. P.** 1974-1979

G.85 1977. Recommendation.

G.86 1977-1979. Includes correspondence *re* scientific matters arising from various published papers.

G.87 **Bristol University** 1977-1978

British Association for the Advancement of Science 1985

British Oxygen Company Ltd 1963

Broberg, P. 1969

Broda, E. 1977-1978

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Correspondence

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Brodie, A. F. 1966-1979

'Restoration of Active Transport of Solutes...' by A.F. Arnold *et al*, 21pp typescript draft with figures; correspondence *re* the use of respiration inhibitors, 1966 and paper, 1979.

G.88 **Bronk, R.** 1978-1979

Correspondence *re* proposed publication of the 'Grey Books' (*Bibliog.* M1966a and M1968c). See D.12.

Brown, A. D. 1975-1979

Brown was Professor of the Biology Department at the University of Wollongong, New South Wales, Australia.

Includes correspondence *re* invitation to Mitchell to act as visiting professor in 1977.

Brown, A. J. 1985

G.89 **Brown, Robert O.** 1985

Brownlee, G. 1962

Bruce, D. H. 1984

Bruce, G. 1985-1986

Correspondence *re* Mitchell's interest in improving human communication through research at the Glynn Research Institute.

G.90 **Brunel University** 1981

Brunori, M. 1983-1984

Bruyne, J. A. de 1978-1979

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Correspondence

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Buchan, E. P. 1989

Bullock, A. 1989

Correspondence *re* the origin of the word 'chemiosmosis'.

Burchard, R. P. 1980

G.91 **Burstein, C.** 1976

Correspondence *re* Burstein's desire to carry out experiments at Glynn Research Institute. Draft of 'Stimulatory Effect of uncouplers...' by C. Burstein *et al*, 15pp typescript with figures.

G.92 **Burton, K.** 1975, 1981

See also G.238-G.247.

Buse, G. 1987

Busenberg, B. 1987

G.93 **Byczkowski, J. Z.** 1975-1983

G.94 **Bygrave, F. L.** 1970-1979

G.95 **Cadogan Communications Ltd.** 1992

Cambridge University 1992

Correspondence *re* Mitchell's death.

Cameron, J. 1966

Correspondence *re* preparation of cell walls of *Staphylococcus aureus*.

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Correspondence

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	Cameron, K. R.	1963, 1978-1979
	Cameron, M.	1961
G.96-G.102	**Cantley, M.**	1985
G.96	Correspondence *re* improving scientific communication.	
G.97-G.102	Enclosures numbered 1-11 *re* the future of biotechnology research in the European Community, sent to Mitchell by Cantley with letter of 24 March 1985. 6 folders.	
G.103	**Capaldi, R. A.**	1982-1983
	Caplan, A. I.	1967, 1978-1979
G.104, G.105	**Caplan, S. R.**	1968, 1978-1979
G.104	1968. Recommendation.	
G.105	1978-1979.	
G.106	**Carafoli, E.**	1965-1966, 1977-1988
	Cardinham Primary School	1990
	Correspondence *re* school visit to Glynn Research Institute.	
	Carew Pole, R.	1979

Correspondence

G.107 **Carne, A. F.** 1973, 1978-1979

Correspondence *re* application to work at the Glynn Research Institute.

G.108 **Carniglia, F.J.** 1980

Carr, J. 1988

Correspondence *re* fund-raising.

Carr, L.R., Baron 1987

Correspondence *re* the concept of independent research foundations.

G.109, G.110 **Carter, C. M.** 1978-1980

Carter was a second year student at the University of Kent at Canterbury, who worked at the Glynn Research Institute for his practical experience placement.

G.109 1978-1979. Correspondence *re* practical experience at the Glynn Research Institute.

G.110 July 1980. Recommendation.

G.111 **Carvajo-Para Suava, A.** 1980

Casadio, R. 1977

G.112-G.114 **Casey, R. P.** 1978-1985

Casey worked at the University of Bern and the University of Helsinki, he also carried out research at the Glynn Research Institute in September and October 1979 and March 1982. Much of the correspondence concerns proton pumping by cytochrome oxidase.

G.112 1978-1979. Includes 'Limited Turnover...' by R.P. Casey *et al.* 12pp typescript draft with captions and figures, *ca.*1978.

Correspondence

G.113 1979-1980. Includes correspondence *re* Casey's visit to the Glynn Research Institute and research by Casey on the interaction of Dicyclohexylcarbodimide (DCCD) with cytrochome oxidase.

G.114 1981-1985. Correspondence *re* Casey's visit to the Glynn Research Institute in March 1982.

G.115 **Cassidy, A. F.** 1979

Correspondence *re* fund-raising.

G.116 **Cassidy, M. M.** 1979-1981

G.117 **Castells, J.** 1983

Castro, C. E. 1979-1990

Caswell, A. H. 1966

Includes correspondence *re* Caswell's research into bacterial photosynthesis in isolated chromatophores, chemiosmotic theory and visit to the Glynn Research Institute in April 1966.

Catcheside, D. G. 1960

G.118 **Caughey, W. S.** 1987-1988

Caughey worked at the Department of Biochemistry, Colorado State University.

Correspondence *re* papers published by Caughey.

Cearns, A. S. 1973

Cearns was an undergraduate student at the University of Sussex. He wrote to Mitchell seeking his comments on mitochondrial biology and the present state of debate.

Correspondence

G.119 **Chakrabarti, P.** 1977-1979, 1989

G.120 **Chakravarti, S.** 1979

Chamberlain, O. 1983

Correspondence *re* the imprisonment of Andrei Sakharov and his colleagues including circular sent by Chamberlain.

Chan, S. I. 1987

Includes correspondence *re* proton pump theories.

G.121-G.126 **Chance, B.** 1961-1990

Chance worked at the University of Pennsylvania. He engaged in an extended correspondence with Mitchell questioning various points of the chemiosmotic theory.

G.121 1961-1965.

G.122 1966-1968.

G.123 1972-1974.

G.124 1975.

G.125 1976-1985.

G.126 1987-1990.

Correspondence

G.127-G.133 **Chapman, J. B.** 1980-1990

G.127 1980-1981.

G.128 *ca.*1980. 'A Kinetic Interpretation...' [running title] by J.B. Chapman, 24pp typescript draft with figure.

G.129 1981-1982.

G.130 *ca.*1982. 'Thermodynamics and Kinetics...' [running title] by J.B. Chapman, 23pp typescript draft with captions and figures.

G.131 1982-1987. Includes correspondence *re* Mitchell's role as an external examiner for a PhD thesis at Monash University, Melbourne, Australia.

G.132 1988-1990. Includes correspondence *re* Mitchell's role as an external examiner for a PhD thesis at Monash University.

G.133 1990. Correspondence including curriculum vitae of Chapman.

G.134-G.139 **Chappell, J. B.** 1962-1985.

Chappell worked at the Department of Biochemistry, University of Bristol. Includes much correspondence on research issues.

G.134 1962-1968.

G.135 1968-1970. Includes correspondence *re* Mitchell's acting as referee for PhD thesis; correspondence *re* symposium on 'From Light to ATP', University of Bristol, 23 October 1970. Mitchell was to speak on 'The Chemiosmotic hypothesis in relation to photosynthesis'.

Correspondence

G.136 1970-1973. Includes correspondence *re* Chappell's visit to the Glynn Research Institute in October 1972; Mitchell's acting as referee for PhD.

G.137 1974-1979.

G.138 Reprints:

Bibliog MM1967g inscribed '1'. *Bibliog.* MM1967i inscribed '2'. *Bibliog.* MMS1968a inscribed '3'. *Bibliog.* MM1969a inscribed '4'.

Letter *re* contents of reprints, 5 September 1979.

G.139 1980-1985.

G.140 **Charles, Prince of Wales,** 1987

Correspondence *re* a reception in Truro, Cornwall in connection with the Business in the Community Movement. See F.246.

Chávez, C. E. 1977-1979

Chemical Abstracts Service 1980

Chemiquest and Techniquest 1990

Chemiquest issue no.2 and manuscript note (*Chemiquest* was the newsletter of Techniquest the science educational charity). See also G.1042.

G.141 **Chen, L. B.** 1989

Chen worked at the Dana-Farber Cancer Institute, Harvard Medical School Boston.

Correspondence *re* fund-raising for the Glynn Research Foundation.

Chen, M. 1985-1986

Correspondence *re* technical issue in *Bibliog.* M1982d.

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Correspondence

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University of Chicago 1980, 1992

G.142, G.143 **Christensen, H. N.** 1960-1981

G.142 1960-1981.

G.143 1977. Recommendation.

G.144 **Chua, N-H.** 1967

Churcher, P. R. 1985

Correspondence *re* Marxism and Capitalism.

Cilbrith, D. B. 1975

Cilbrith was engaged in research at Florida International University.

Includes correspondence *re* views of P.D. Boyer.

Clarke, P. H. 1983

Correspondence *re* draft research proposal.

G.145 **Clarke, S.** 1969-1982

Clarke worked at the Glynn Research Institute for ten weeks in the summer of 1969 on a U.S. National Institute of Health undergraduate research grant. For Clarke's 1969 research notebook compiled at the Glynn Research Institute see C.275.

Correspondence *re* Clarke's visit; Clarke's doctoral thesis.

Correspondence

G.146 **Claude, A.** 1977-1979

Claus, G. W. 1965

Includes correspondence *re* research interests.

Clausen, T. 1978-1979

Correspondence arising from Clausen's paper 'The Role of Calcium in the Action of Insulin' in FEBS Symposium vol.45, mainly concerning the entry of calcium into the mitochondria.

G.147, G.148 **Cobley, J. G.** 1972, 1980-1982

Cobley worked at the Molecular Biology Division of the Veterans Administration Hospital, San Francisco and later at the Department of Chemistry, University of San Francisco.

G.147 Correspondence *re* Cobley's research interest in nitrite reduction and his visit to the Glynn Research Institute on 6-7 March 1972; correspondence *re* Cobley's paper 'The Maintenance of pH Gradients...', 13pp typescript with figures included.

G.148 1972. Recommendation.

G.149 **Cockrell, R. S.** 1972

Correspondence *re* the laboratory usage of thiocyanate.

Colacaccio, G. 1985

Coleman, G. S. 1966

Correspondence *re* Colman's experiments on the incorporation of ^{14}C-amino acids by washed suspensions of the rumen ciliate *Entodinium caudatum*.

Collins, P. Q. 1982

Correspondence *re* economics and the theories of L. St. Clare Grondona with related printed and typescript matter. See D.323-D.330.

Correspondence

G.150 **Colson-Corbisier, A-M.** 1987-1989

Correspondence *re* cytochrome *b* research with Mitchell and P.R. Rich.

Committee of Directors of Research Associations 1965

Correspondence *re* advice on research laboratory costing.

Conway, E. J. 1962

Cook, G. 1976

Cook, R. 1967

Copeman, W. S. C. 1961

G.151 **Corbett, J. R.** 1968-1979

Includes correspondence *re* uncoupler measurements and Industrial Liaison Service run by Cornwall County Council.

G.152 **Cotterill, R.** 1979

Craigmyle and Co. 1979

Correspondence *re* fund-raising.

G.153 **Cramer, W. A.** 1975-1985

Correspondence *re* research issues arising in various papers.

G.154 **Crane, F. L.** 1983

Correspondence

G.155 **Crane, R. K.** 1960-1990

Includes correspondence *re* Mitchell's molecular model of the translocation system, 1961; invitation to be visiting professor at the Chicago Medical School in 1964 (declined) and *re* proposed visit to the Glynn Research Institute in 1964.

G.156 **Creanor, J.** 1972

Correspondence *re* the use of yeast mitochondria in laboratory research.

Creeper, W. A. 1976

G.157 **Crick, F. H. C.** 1988, 1991

Letter *re* recommendation.

G.158, G.159 **Critchley, C.** 1979

G.158 Correspondence *re* research report by Critchley and colleagues on the possible role of sulphur compounds in oxidative phosphorylation; report by Critchley dated January 1979, 18pp typescript.

G.159 Papers by D.E. Weiss and J.M. Swan sent by Critchley with letter of 22 February 1979.

G.160 **Crofton, W. M.** 1960

G.161-G.164 **Crofts, A. R.** 1968-1990

G.161 1968-1984. Includes correspondence *re* Mitchell's 'S.G.M. paper' possibly *Bibliog.* M1970a and various other papers; correspondence *re* Q-cycle research, 1980-1981, 1984.

G.162 1971, 1975, 1977. Recommendations.

Correspondence

G.163 1984-1986. Recommendation.

G.164 1987-1990. Correspondence includes letter of 29 April 1987 concerning Crofts model of the *Rhodobacter capsulatus* cytochrome b subunit including related material.

G.165 **Crook, E. M.** 1960, 1978-1979

G.166 **Cross, R. L.** 1970-1989

Includes correspondence *re* aurovertin stocks, 1970 and various papers by Cross.

G.167 **Crout, D. H. G.** 1978

G.168 **Dadák, V.** 1978-1979

Dagley, S. 1978-1979

Dalgliesh, C. E. 1962

G.169 **Dalton, A.N. G.** 1982, 1988

Dalton was Managing Director of English Clays Lovering Pochin and Co. Ltd.

Correspondence *re* fund-raising and the effectiveness of small scale enterprises.

G.170, G.171 **Dam, K. van** 1968-1988

G.170 1968-1969, 1974-1979. Includes correspondence *re* visits to Glynn Research Institute and Mitchell's contribution to the 'joint review' in the *Annual Review of Biochemistry*, *Bibliog.* M1977e, see also D.102-D.108.

Correspondence

G.171 1982, 1988. Includes correspondence *re* paper by Mitchell, *Bibliog.* M1981e.

G.172 **Damper, D.** 1979

Danielis, J. 1979

Letter *re* donation of stationery to the Glynn Research Institute, 24 April.

G.173-G.175 **Danielli, J. F.** 1961-1982

Mitchell worked with Danielli in the Department of Biochemistry, Cambridge in the early 1940s. Danielli was also chief editor of *the Journal of Theoretical Biology*.

G.173 1961-1965. Includes correspondence *re* editorial refereeing for *Journal of Theoretical Biology* and the *International Review of Cytology* and invitations to participate at conferences, see G.174.

G.174 1972-1979, 1982. Includes correspondence *re* human communication interests and Danielli's paper 'Programs of Our Species...', *ca.*1982.

G.175 42pp typescript draft.

G.176 **Danker, K. O.** 1965-1966

Dargel, R. 1968

Darmill, D. 1981

Dart Publishing 1984

Darnill, D. 1981

Das, B. 1979

Correspondence

G.177 **Dasgupta, A.** 1984-1985

Correspondence *re* non-equilibrium thermodynamic model for the chemiosmotic hypothesis.

G.178 **Datta, S. P.** 1982, 1987

Includes correspondence *re* editorial refereeing.

G.179 **Davenport, H. E.** 1967

Correspondence *re* Davenport's interest in the performance of the Phoenix Dual Beam Scanning Spectrophotometer installed at the Glynn Research Institute.

Davies, K. J. A. 1982-1983

G.180, G.181 **Davies, M.** 1968-1973

G.180 1968. Refereeing grant application.

G.181 Correspondence *re* proposed stay at Glynn Research Institute for experimental research, etc.

G.182 **Davies, R. E. and Davies, H.** 1961, 1978-1979

Includes correspondence *re* 'Biochemical Aspects of the Transport of Ions by Nervous Tissue' by R.E. Davies and H.A Krebs which suggested possible link between osmotic energy and oxidative phosphorylation, presented to the Biochemical Society Symposium in 1952.

Davis, E. J. 1970-1971

Correspondence *re* supplies and experimental usage of aurovertin.

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Correspondence

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Davison, B. T. 1990

M.H. Saier, a Professor of Biology at the University of California, San Diego, wrote to Davison requesting an interview. Saier was working on a biography of Mitchell and wished to speak to Davison about her memories of Mitchell.

Correspondence *re* interview for biography.

Davson, H. 1963

G.183, G.184 **Deamer, D. W.** 1967-1988

G.183 1967-1971. Includes correspondence *re* research carried out by B. Chance on ubiquinone oxidation kinetics and BTB pH shift kinetics, 1967; correspondence *re* various papers including a review of the chemiosmotic hypothesis Deamer was working on for the *Journal of Chemical Education*, 1968.

G.184 1978-1979, 1982, 1985, 1988.

G.185 **Demandach, A.** 1991

Denbigh, K. G. 1982

Denbigh was Director of the Council for Science and Society.

Correspondence *re* non-equilibrium thermodynamics.

G.186 **Denison, D.** n.d.

Dennison, S. R. 1988

Dennison was Chief Executive of English China Clays p.l.c.

Correspondence *re* fund-raising.

Correspondence

G.187 **Department of Industry** 1983

Derx, D. J. 1989-1990

Derx was associated with Glaxo Holdings p.l.c.

Correspondence *re* fund-raising.

G.188 **Desai, H.** 1985

Detmer, D. E. 1961-1962

Dextran Limited 1961

G.189 **Dilley, R. A.** 1968, 1975-1979, 1988

Includes correspondence *re* visit to Glynn Research Institute, 1968 and research interests.

G.190 **Dimroth, P.** 1987, 1989

Includes correspondence *re* Dimroth's research on sodium ions as coupling ions in bioenergetic functions of bacteria.

Diwan, J. J. 1978

G.191 **Dixon, H. B. F.** 1973, 1989

Includes correspondence *re* Dixon's interest in ion-translocating ATPases, 1973.

G.192 **Dixon, M.** 1978-1979

Dormandy, T. L. 1964

Downes, J. L. 1967

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Correspondence

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Dragons Lair Animal Aid 1990

This animal aid body requested information on research methods at the Glynn Research Institute.

Drake, H. L. 1977

Brief correspondence *re* anaerobic types of protonmotive system and studies of anaerobic bacteria.

G.193 **Driessche, T. Vanden** 1978

Drozd, J. W. 1978-1979

Dryer, R. L. 1969

G.194 **Ducet, G.** 1966

Duggar, W. M. 1966

G.195 **Dukhin, A. S.** 1990

G.196 **Dumont, M. E.** 1984-1985

Correspondence *re* Mitchell's interest in a paper by Dumont and F.M. Richards on the passage of apocytochrome *c* into lipid vesicles (*Journal of Biological Chemistry*, 259, 1984) and Mitchell's research on cytochrome *c* passage through mitochondria membranes.

Dunitz, J. D. 1978

G.197 **Dunker, A. K.** 1982

Correspondence *re* papers by Dunker on proton motive forces and haemoglobin.

Correspondence

G.198 **Dunlop, S. G.** 1963

Dunwell, H. 1990

Dunwell was a cousin of Mitchell's and was also a trustee of the Tudor Trust.

Includes correspondence *re* visit to the Glynn Research Institute and fund-raising.

G.199 **Dupont, Y.** 1983

Correspondence *re* Dupont's paper 'Is Ca^{2+}-ATPase A Water Pump?'. Includes 14pp typescript.

Durham, N. N. 1962

G.200-G.202 **Dutton, P. L.** 1975-1991

G.200 1975-1981. Includes correspondence *re* research on Q-cycle.

G.201 1978-1979. Recommendation.

G.202 1987-1988, 1991. Nomination, 1987; recommendation, 1991.

G.203 **Duve, C. R. M. J. de** 1975-1979

G.204 **Dyer, S.** 1989

Correspondence *re* fund-raising methods.

G.205 **Eddy, A. A.** 1960-1991

Edinburgh University 1963

Correspondence *re* superannuation.

G.206, G.207 **Edmonds, D. T.** 1985, 1991

Correspondence

G.206 1985. Recommendation,

G.207 1985, 1991.

G.208 **Edoute, Y. and Lochner, A.** 1979, 1981

Correspondence *re* Edoute and Lochner's investigations into the effects of myocardial ischaemia on mitochondrial oxidative phosphorylation.

Edwards, G. 1969

Edwards, P. 1982

Edwards, R. 1985

Eglinton, G. 1968

Eifler, Z. 1991

Albert Einstein Peace Prize Foundation, 1985-1986

Correspondence *re* Mitchell's participation in a questionnaire survey *re* the possibility of nuclear war.

G.209 **Eisai Co., Ltd.** 1990-1991

Eisai Co., Ltd. were a drugs manufacturing firm. They were a major producer of Coenzyme Q. Mitchell visited their offices in Tokyo on 2 November 1990 after attending the Third Nobel Laureates Forum, 26-31 October, Tokyo (F.330-F.341). See also F.322-F.326.

Includes correspondence *re* Mitchell's visit, the possibility of an endowment and the production of coenzyme Q_{10} as a metabolic drug.

Correspondence

G.210 **Eisenbach, M.** 1973

1973. Editorial refereeing.

G.211 **Eisenberg, D.** 1990

Letter from Mitchell to Eisenberg *re* the structure of 'OSCP subunit of the ox heart F_0F_1 ATPase', 3 September 1990.

Eisenman, G. 1963, 1966-1971

Includes correspondence *re* experimental technique problems encountered by Mitchell when measuring fast pH changes with glass electrodes.

Electronic Equipment News 1975

Eley, D. D. 1978-1979

Ellar, D. J. 1972

Ellar was involved in the Society for General Microbiology and sent Mitchell a circular seeking opinions and support for the setting up of a Group on Surfaces and Membranes of Microorganisms. See E.115.

G.212 **Ellert, T.** 1989

Letter by Mitchell etc. *re* fund-raising.

Elliott, G. F. 1990

Elliot, W. H. 1990

Correspondence *re* the formation of Mitchell's ideas about oxidative phosphorylation.

Elsden, S. R. 1961, 1965

Correspondence *re* Mitchell's visit to Sheffield in May 1962 to give two lectures (see D.353) and Mitchell's interest in Elsden's research into the relation between growth and oxygen consumption in micro-organisms, 1965.

Correspondence

G.213 **Epstein, E.** 1967

Epstein, W. 1978-1979, 1987

Includes correspondence *re* illustrating molecular transport mechanisms.

G.214 **Erecinska, M.** 1973-1976, 1979

G.215, G.216 **Ernster, L.** 1964-1987

Ernster was Professor of Biochemistry at the University of Stockholm and also associate editor of *Experimental Cell Research*.

G.215 1964-1975. Includes correspondence *re* visit by C.P. Lee (a colleague of Ernster) to the Glynn Research Institute in December 1965 and Mitchell's visit to Ernster at the University of Stockholm in March 1968; 2pp typescript draft of Ernster's statement on oxidative phosphorylation, 14 May 1974; correspondence *re* energy transduction issues, 1975.

G.216 1975-1987. Includes correspondence *re* visit by Ernster to Glynn Research Institute 22 September 1977; letter to Ernster *re* the exchange between P_i and H_2O, catalysed by the oligomycin-sensitive mitochondrial ATPase, 15 February 1978; correspondence *re* Mitchell's application for a Royal Society Research Professorship, for which Ernster agreed to act as referee, 1982.

G.217 **Essig, A.** 1967

Estabrook, R. W. 1965

Letter from Mitchell to Estabrook *re* Estabrook's observations on the effect of deuterium on the rate of oxido-reduction through the respiratory chain, 14 December 1965.

Ettlinger, N. E. 1989

Correspondence *re* Mitchell's concepts of energy systems and how they could effect brain cells, psychodynamics etc. See also D.468 and D.474.

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Correspondence

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Evans, L. 1989-1990

Includes correspondence *re* Mitchell's support of Evans's efforts to increase public understanding of the natural sciences.

G.218 **Evans, M. C. W.** 1970, 1972, 1979

Includes correspondence *re* pumping of protons in chloroplasts, 1970 and 1972.

Evtodienko, 1969

Correspondence *re* high phosphate potential observed by Evtodienko during steady state oxidative phosphorylation.

Exeter University 1982, 1992

G.219, G.220 **Eze, M. O.** 1977-1981

G.219 1977. Editorial refereeing.

G.220 1978-1981.

G.221 **Ezra, D., Baron** 1985

Includes brief correspondence *re* industry in Britain arising out of Ezra's recent inaugural address at the Economic Research Council dinner, 8 October 1985; annotated *'Report from the Select Committee on Overseas Trade'*, July 1985, HMSO.

Falmouth, G. H. B., 9th Viscount, 1987

Farber, L. 1968

Farooq, S. 1967

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Correspondence

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Fatt, P. 1984

G.222 **Feldberg, W. S.** 1976

Fenton, D. E. 1971-1973

Correspondence *re* the properties of N,N,N',N'tetramethyl-1,8-naphthalenediamine.

G.223, G.224 **Ferguson, S. J.** 1979-1992

G.223 Includes correspondence *re* invitation to a meeting on muscle biochemistry at the University of Birmingham, 23 and 24 September 1985 (declined).

G.224 Brief correspondence *re* the formulation of aims for a symposium on 'Control, mechanism and organisation of electron transport' at the 5th European Bioenergetics Conference, Aberystwyth, set for 20-25 July 1988.

G.225 **Ferguson-Miller, S.** 1978-1979, 1986

Includes letter referring to the intention of Michigan State University to offer Mitchell an honorary degree, 30 October 1978; correspondence *re* 'crossover' effect between cytochromes *c* and c_1 , 1979; invitation to Michigan State University, 1979, (declined); letter referring to discussions on cytochrome oxidase between Ferguson-Miller and Mitchell at the Glynn Research Institute, 9 April 1986.

Ferro-Luzzi Ames, G. 1983

Fersht, A. R. 1989

Fiddy, P. 1984

Fiddy worked for Educational Information Technology Services (Edits).

Includes correspondence *re* the work of the Glynn Research Institute on communication and Mitchell's concept of the 'uke'; 1p typescript draft of Glynn Research Institute contract of employment.

Correspondence

G.226 **Finel, M** 1989

Fisher, J. H. 1968

Fisher, R. B. 1960

Fishlock, D. 1986

Fishlock was science editor of the *Financial Times*.

Correspondence *re* Mitchell's views on science and technology; newspaper cuttings.

Flear, C. T. G. 1967

G.227 **Fleischer, S.** 1967-1984

Includes invitation to comment on plans for the forthcoming *Methods in Enzymology* publication series by Fleischer, 1983, (declined); invitation to Symposium and Workshop on 'Biomembranes and Bioenergetics', Peking, China, 5-7 October 1983, (declined); invitation to contribute to the *Methods in Enzymology* publication series, 1984, (declined).

G.228 **Folkers, K.** 1962, 1975-1981

Includes correspondence *re* samples of coenzyme Q_2 and 'bromo Q' sent to Folkers on 24 December 1961; correspondence *re* the Q cycle, coenzyme Q and the drug Coenzyme Q_{10}; papers *re* the Third International Congress on Biomedical and Clinical aspects of Coenzyme Q. University of Texas at Austin, 18-21 January 1981 (Mitchell withdrew due to illness), see also F.112-F.114; correspondence *re* Mitchell's illness, 1979-1980.

G.229 **Font, C.** 1982

Fonyó, A. 1974-1986

Includes correspondence *re* invitations (declined), deviant cation-phosphate symport experiments at the Glynn Research Institute, 1978.

Correspondence

G.230 **Fortson, B. D.** 1980-1981

Correspondence includes Mitchell's account of the development of his interest in chemistry and his career and life.

Fowler, C. F. 1977

Fox, J. L. 1967

Fox, M. 1978-1979

Fox, R. A. 1964

Correspondence *re* Mitchell's need to obtain stocks of blow flies or houseflies for research purposes and their different merits in research.

W. and G. Foyle Ltd. 1980

G.231 **Fraser, K. R.** 1967

Recommendation.

G.232 **Frauenfelder, H.** 1978-1979, 1982

Includes correspondence *re* the concept of electric spark discharges and the tunneling phenomenon, 1978-1979; correspondence *re* aspects of microscopic irreversibility in the context of the molecular mechanics of enzyme and catalytic carrier reactions, 1982.

G.233 **Freedman, L.** 1975, 1978-1979

Includes correspondence *re* the Louis and Bert Freedman Foundation Award for Research in Biochemistry presented by the New York Academy of Sciences, 1975, see also A.51.

Correspondence

G.234 **Freese, E.** 1976, 1978-1979

Includes correspondence *re* Freese's intention of proposing Mitchell for an unnamed award. Mitchell's reply expresses his personal views on the reception amongst the scientific community of his chemiomotive and chemiosmotic rationales, 1976.

Freud, G. E. 1973

Freund, F. 1982

Friedmann, N. 1978-1979

Fukui, K. 1989

Includes correspondence *re* Fukui's election as a Foreign Member of the Royal Society on 29 June 1989.

G.235 **Furze, A. D.** 1987

Letter *re* a draft of the responsibilities and duties of the Honorary Director of the Glynn Research Foundation including 1p typescript, 4 September 1987.

Futai, M. 1976-1990

Correspondence *re* invitations to contribute to or advise on publications (declined).

G.236 **Gabriel, K. W.** 1980-1982

Gabriel was a senior at Yale University and was researching the history of mitochondrial studies between 1941 and 1961.

Correspondence *re* Gabriel's research interest, his visit to the Glynn Research Institute to meet Mitchell and a report on his finished thesis. See also A.6 for a copy of Gabriel's thesis.

Correspondence

G.237 **Gaertner, F. H.** 1978

Gale, [?1950]

Manuscript draft letter *re* Mitchell's penicillin research, 21 April.

Gamble, J. L. 1973-1974

Correspondence *re* the application of Mitchell's concepts to acid-base physiology.

Garbus, J. n.d.

Gargus, J. J. 1974

G.238-G.247 **Garland, P. B.** 1968-1990

Garland was Professor of Biochemistry at the University of Dundee and later Chief Executive of the Institute of Cancer Research at the Royal Cancer Hospital, London.

G.238, G.239 1975-1976. Refereeing grant application. 2 folders.

G.240 1968-1969, 1972-1975. Includes correspondence *re* proposed visit to the Glynn Research Institute to carry out experiments for measuring $\rightarrow H^+/2e$ ratios in mitochondria from *T. utilis*, 1968; correspondence *re* the use of rhein in experimental work, 1972, 1973, methods of inhibiting fatty acid oxidation in rat liver mitochondria, 1972-1973 and aspects of the protonmotive Q cycle, 1975.

G.241 1975-1977. Includes correspondence *re* Garland's views on the Q cycle as proposed by Mitchell, 1975-1976, terminology for proton motive force, 1976-1977 and the behaviour and structure of viologen structures, 1976.

G.242 1977-1979. Includes correspondence *re* the views of Mitchell and others on the proton-translocating activity of the nitrate reductase system and the oxidoreduction pathway.

Correspondence

G.243 1977-1980. Correspondence *re* protonic coupling mechanisms, chemiosmosis and micro-chemiosmosis and the views of R.J.P. Williams; editorial refereeing, 1980.

G.244 1982-1983. Includes correspondence *re* two grant applications by Mitchell.

G.245 1983. Nomination.

G.246 1983-1984, 1987. Includes correspondence *re* visit to the Glynn Research Institute, 1983; correspondence *re* the use of *Paracoccus denitrificans* in experimental work, 1983 and drafts of grant application by Mitchell, 1983-1984.

G.247 1989-1990. Fax from Garland *re* his updated curriculum vitae and most recent research interests, 16 November; invitation to Garland and his wife to attend the Glynn Research Foundation Silver Jubilee, 1990.

G.248-G.254 **Garlid, K. D.** 1982-1992

Garlid graduated as an M.D. in 1961 and in 1971 became Associate Professor and then Professor of Pharmacology at the Medical College of Ohio. In 1987 he gained a doctorate in Physical Chemistry.

G.248 1982-1983. Includes correspondence *re* Garlid's papers on the mitochondrial K^+/H^+ exchanger and his visit to the Glynn Research Institute in September 1983.

G.249-G.252 1987. Four typescript drafts with annotations. With 1p manuscript notes in G.251. 4 folders.

G.253 1987-1989. Includes correspondence *re* Garlid's draft paper 'The Permeability Barrier to Ions in Energy-Transducing Membranes' and Mitchell's role as one of the examiners for Garlid's doctoral thesis in physical chemistry, 1987, (see G.249-G.252).

Correspondence

G.254 1991-1992. Includes recommendation, 1991.

G.255 **Garthwaite, J.** 1976

Garton, W. 1978-1979

Gause, G. F. 1967

Correspondence *re* Mitchell's request for supplies of Gramicidin S.

Gauthier, P. 1990

Gearing, J. 1978-1979

G.256 **Geering, Q. A.** 1976-1983, 1987, 1989

Geering worked for Fisons Ltd. Agrochemical Division at Chesterford Park Research Station, Essex. He was also a Co-Director of the Glynn Research Institute's Council of Management.

Includes correspondence *re* Geering contributing finance to the Glynn Research Institute, 1978 and his appointment as a Co-Director of the Glynn Research Institute's Council of Management, 1978; correspondence *re* The Glynn Research Institute including fund-raising, the filling of a research fellowship position and plans to invite M. Williams to join the Glynn Research Institute's Council of Management, 1987. correspondence *re* the silver jubilee celebrations of the Glynn Research Institute, 1989.

G.257 **Genchev, D. D.** 1982

G.258 **Gennis, R. B.** 1985

Recommendation.

G.259 **Gerhardt, P.** 1960, 1964

Includes correspondence *re* research position at Edinburgh for a postdoctoral student, 1960.

Correspondence

G.260 **Gerson, R. K.** 1975

Geyer, K. 1980-1981, 1986

Ghione, M. 1965

Gibson, Q. H. 1966

G.261 **Gillies, D. A.** 1988-1992

Includes correspondence *re* 'Scientific Discovery as Problem Solving' by H.A. Simon, 1990; correspondence *re* proposed book on the philosophy of science by Gillies, 1991 and an offer to assist Mitchell in publishing an English edition of his 'Aspects of Chemical Philosophy: Science as a Pursuit of Humanity' (published in Japanese) *Bibliog.* M1989b, 1991-1992 (see also D.185, D.186).

G.262, G.263 **Ginsburg, B. Z.** 1963, 1968-1969

G.262 1969. Recommendation.

G.263 Includes letter from J. Moyle to Ginzburg *re* Mitchell's health and work etc., 12 September 1963; correspondence *re* evidence for the existence of a respiration-driven proton pump in the outer membrane of algae, 1968.

G.264 **Girolami, P.** 1988-1989

Girolami was Chairman of Glaxo Holdings.

Correspondence *re* research financing, the nature of scientific enterprise and funding for the Glynn Research Institute arising from an interview of Girolami in the *Financial Times* entitled 'Spending money for the longer term', 30 August 1988; newspaper cuttings *re* Girolami and Glaxo, 1989.

Correspondence

G.265 **Gladyshev, G. P.** 1981, 1988

Glonek, T. 1981

Brief correspondence *re* high resolution phosphorus-31 NMR spectroscopy.

Glynn, I. M. 1971-1989

Includes correspondence *re* an issue relating to cationmotive ATPases raised in Mitchell's paper 'From Black-box bioenergetics to molecular mechanics...' *Bibliog.* M1981e, 1982, (see D.125); editorial refereeing, 1989.

G.266-G.268 **Godfrey, J.** 1984-1990

Godfrey was a science policy consultant, who acted for the Glynn Research Institute.

G.266 1984-1985. Includes correspondence *re* administration of the Glynn Research Institute, fund-raising, and the practical applications of research on chemiosmotic processes, 1985.

G.267 1985-1986. Includes correspondence *re* Godfrey's role as a policy consultant for the Glynn Research Institute, 1985-1986.

G.268 1986-1990. Includes correspondence *re* the use of biological systems for computing, 1986 and Mitchell's views on the economic situation in the USSR, 1989.

G.269-G.272 **Goffeau, A.** 1966-1989

From 1975 Goffeau was Professor of Biochemistry at Université Catholique de Louvain.

G.269 1966, 1975. Includes correspondence *re* Goffeau's doctoral thesis findings on photophosphorylation and their possible explanation in terms of Mitchell's chemiosmotic hypothesis, 1966; correspondence *re* typescript by F. Foury and A. Goffeau on the action of Dio-9 on cellular transport in yeast, 1975.

G.270 1975-1977. Includes correspondence *re* Goffeau's work.

Correspondence

G.271 1982-1989. Includes correspondence *re* visit of Goffeau and two students to the Glynn Research Institute on 7 April 1982, the E_1E_2 ATPase chemiosmotic mechanism, 1984 and Goffeau's research into H^+-ATPase, 1985; correspondence *re* Glynn Research Institute grant application to the Commission of the European Communities, 1989.

G.272 1989-1990. Nomination, 1989; recommendation, 1989-1990.

G.273 **Goldberg, E.** 1990

Goldfarb, A. 1982, 1984

Includes correspondence *re* Mitchell's support for protest to the Soviet Government about the treatment of Goldfarb's father, David, formerly a Professor of the Laboratory of Molecular Genetics of Bacteria and Bacteriophages at the U.S.S.R. Academy of Sciences.

G.274-G.280 **Good, N. E.** 1967-1987

Good was a Professor in the Department of Botany and Plant Pathology at Michigan State University.

G.274 1967-1968. Includes circulated correspondence, *re* Good's position on the chemiosmotic theory, between Good, G. Hind, A. Jagendorf and Mitchell.

G.275 1973-1976. Includes correspondence *re* experiments on chloroplasts, 1973-1974; circulated correspondence *re* papers by Good's ex-student D.R. Ort, 1976.

G.276 1977-1979. Includes correspondence *re* the position of Good and others on the chemiosmotic theory as it pertains to ATP formation in chloroplasts and proposed visit by Good to the Glynn Research Institute, 1979.

G.277 1981. Refereeing grant application.

G.278 1981. Includes correspondence *re* Good's experimental work on ATP synthesis.

Correspondence

G.279 1983.

G.280 1987. Brief correspondence *re* Good's concern about the language in which the chemiosmotic theory is expressed; typescript by Good.

G.281 **Goodall, M. C.** 1966

G.282 **Goodwin, T. W.** 1962

G.283-G.289 **Gosálvez, M.** 1978-1983

Gosálvez worked at the Clinica Puerta de Hierro, Madrid.

G.283 1978-1979. Includes correspondence *re* Gosálvez's 'Zipper Mechanism' which conceived a contractile pump for passing ions across membranes; correspondence *re* Gosálvez's visit to the Glynn Research Institute, 2 April 1979 and the visit to the Glynn Research Institute of Gosálvez's PhD pupil L. Pezzi, 1979.

G.284 1981. Brief correspondence *re* the Zipper Mechanism, including letter to A. Huxley from Gosálvez *re* Huxley's criticisms of the Zipper Mechanism hypothesis, 2 September 1981; typescript by Gosálvez.

G.285 1981. Recommendations. See also G.803, G.804.

G.286 1982-1983.

G.287 *The Zipper Mechanism* by M. Gosálvez, Madrid 1982.

G.288 1983. Includes correspondence *re The Zipper Mechanism* and possible experiments that could be devised to test the hypothesis.

G.289 1983. Curriculum vitae of M. Gosálvez.

Correspondence

G.290 **Gottlieb, R.** 1965

G.291 **Gould, J. M.** 1975, 1979

Correspondence *re* Gould's papers on how protons might be mechanistically involved in ATPase and ATP formation reactions; typescripts of Gould's papers.

G.292-G.294 **Gräber, P.** 1984-1990

G.292 1984-1986. Includes correspondence *re* Gräber's request for his PhD student U. Junesch to work for a year at the Glynn Research Institute, 1984.

G.293 1988. Recommendation.

G.294 1989-1990. Includes correspondence *re* Gräber's paper 'Activation/Inactivation and uni-site Catalysis by the reconstituted ATP-Synthase from Chloroplasts' with P. Fromme; letter to Gräber *re* a paper in *FEBS Letters*, 269.

G.295 **Graves, C. J. M.** 1988-1991

Graves was Director of the Tudor Trust.

Includes correspondence *re* proposals for endowing a chair at the Glynn Research Foundation, 1988; correspondence *re* funding, 1988, 1990; and Mitchell's visit to the offices of the Tudor Trust in November 1990.

G.296 **Graves, D.** 1985

Graves, M. 1987-1988

Graves was a cousin of Mitchell's and also a trustee of the Tudor Trust.

Correspondence *re* fund-raising.

Gray, H. B. 1988

Correspondence

G.297-G.304 **Green, D. E.** 1967-1984

Green was a Professor at the Institute for Enzyme Research, University of Wisconsin.

G.297 1967, 1970-1973. Includes correspondence *re* the general problem of the mechanism of energy transductions in the mitochondrial system including reactions to issues raised in various published papers, 1970-1973; correspondence *re* Green's visit to the Glynn Research Institute, 27, 28 June 1970; four high magnification mitochondrion photographs.

G.298 1973. Includes correspondence *re* Green's summary of the New York Academy of Sciences Conference on the Mechanism of Energy Transduction in Biological Systems, (7-9 February 1973), 1973; summary of conference, 10pp typescript.

G.299 1974-1978, 1981. Includes correspondence *re* proposals for a statement on the consensus view of present mitochondrial research following a call by E. Racker for greater dialogue and collaboration amongst scientists in the field, 1974; circulated correspondence between Mitchell and Green continuing their dialogue *re* energy transduction in the mitochondrial system and related problems, 1974-1975; correspondence *re* issues raised in various published papers.

G.300 1982. Includes correspondence *re* issues raised in various published papers.

G.301 *ca.* 1982-1983. 'The Pairing Principle of Enzymic Catalysis' by D.E. Green, 16pp typescript draft with captions, figures and diagrams.

G.302 1982-1983. Correspondence *re* Green's review article 'The Pairing Principle of Enzymic Catalysis' and *re* Green's objections to chemiosmosis and indirect coupling and its effect on bioenergetics research.

G.303 1983. 'The Pairing Principle of Enzymic Catalysis' by D.E. Green, 15pp typescript draft with captions, figures and diagrams with short letter to Mitchell written on frontispiece, *ca.* May 1983; brief correspondence *re* issues raised in 'The Pairing Principle...'.

Correspondence

G.304 1983-1984. Includes correspondence *re* D.E. Green Distinguished Memorial Lectureship.

G.305 **Green, N. M.** 1990-1991

Includes fax *re* Mitchell's visit to Green in London, 27 November 1990.

G.306-G.311 **Gregory, R. L.** 1984-1992

Gregory was Scientific Director of the Bristol Exploratory and Professor of Neuropsychology at Bristol University.

G.306 1984, 1986. 'The Aims and Structure of the 1984 Exploratory Exhibition' by R.L. Gregory, 16pp typescript, 3 November 1984; two newspaper articles *re* the Bristol Exploratory.

G.307 1985-1986. Includes correspondence *re* Mitchell's interest in Gregory's approach to scientific education and the Bristol Exploratory, 1985; visit by Gregory to the Glynn Research Institute, see also B.145; 'The number of functions passing through a finite number of points', 4pp manuscript notes.

G.308 1986. Includes correspondence *re* Gregory's invitation to Mitchell to co-operate with him on a book on 'Explanation in science'.

G.309 1986-1987. Includes correspondence *re* Gregory's visit to the Glynn Research Institute in July 1986 with two photographs of Mitchell and his wife, and one photograph of Mitchell outside Glynn House; correspondence *re* Gregory's editorials for *Perception* concerning communication in science, 1987; typescript draft; etc.

G.310 1988, 1990-1991. Includes correspondence etc. *re* a centre for the public understanding of science at Herstmonceux Castle, 1988; Gregory's participation in the Glynn Research Foundation's Silver Jubilee, 1990.

G.311 1991-1992. Includes recommendation.

Correspondence

G.312, G.313 **Greville, G. D.** 1961-1969

Greville worked for the Agricultural Research Council at the Institute of Animal Physiology, Babraham, Cambridge.

G.312 1961-1962. Includes correspondence *re* visits by Mitchell to the Institute of Animal Physiology, Cambridge in June and July 1961 concerning collaborative work on the titration of mitochondria; correspondence *re* Mitchell's communication on oxidative phosphorylation at the Symposium on 'Structure and Function of the Membranes and Surfaces of Cells', Biochemical Society, 9 March 1962.

G.313 1964-1969. Includes correspondence *re* Mitchell's request for information on reactions of ferricyanide and ferrocyanide ions with mitochondria, 1964-1965; request from Greville for a short resume by Mitchell on his chemiosmotic theory so as to present a talk; 'Resume of Chemiosmotic Coupling Conception' by Mitchell, 5pp manuscript, 1965; correspondence *re* Greville's scrutiny of Mitchell's hypothesis to be published in *'Current Topics in Bioenergetics'*, 1968-1969; etc.

G.314-G.317 **Griffiths, D. E.** 1966-1980

G.314 1966, 1976-1977. Includes correspondence *re* visit on 21 October 1966 to the Department of Biochemistry, University of Warwick to return an 'Aminco' machine; correspondence *re* the 'joint review' for the *Annual Review of Biochemistry*, *Bibliog.* M1977e, see D.102-D.108; 'Studies of Energy Linked Reactions...' by Griffiths to be published in the *Biochemical Journal*, *ca.* 1976; correspondence *re* the role of arsenite as an inhibitor, 1977.

G.315 1972, 1977. Refereeing grant applications.

G.316 1977-1978. Refereeing grant application.

G.317 1980. Refereeing grant application.

Correspondence

G.318, G.319 **Grinius, L.** 1973, 1987, 1992

G.318 1973, 1987. General correspondence.

G.319 1992. Recommendation.

G.320 **Grisham, C. M.** 1986

Recommendation.

G.321 **Gromet-Elhanan, Z.** 1980, 1989

Grooth, B. G. de 1978

Guelph University 1969, 1978

Includes *re* invitation to visit the Department of Chemistry as a short-term visiting Professor for the academic year 1978-1979, (declined).

G.322 **Guerin, B.** 1987

Guise, G. 1988

Gulzar, M. A. 1985

Correspondence *re* Gulzar's desire to carry out experiments on the role of Tubulin in the transport of organelles.

G.323 **Gutfreund, H.** 1966-1967

Includes brief correspondence *re* arrangements for Meeting of the Molecular Enzymology Group, Biochemical Society, Bristol, 23 May 1967. Mitchell was to introduce the topic for discussion.

Correspondence

G.324-G.331 **Gutman, M.** 1976-1987

Gutman was a Professor of Biochemistry at Tel-Aviv University.

G.324 1976. 'The Effect of Opposing Effectors on Activation Level of Succinate Dehydrogenase: Equilibrium and Kinetic Studies' by M. Gutman, 23pp typescript with tables and graphs, with letter by Mitchell discussing issues arising, 19 January.

G.325 1976. Includes correspondence *re* issues arising from various papers; correspondence *re* arrangements for visit by Gutman to the Glynn Research Institute on 27 June 1976 and scientific issues that arose during visit.

G.326 1976-1979. Includes correspondence *re* issues arising from various papers and discussion of topics such as 'the effect of ATP on the redox level of centers 1 and 2 in NADH DH', the 'Kroger model', and other aspects of the Q cycle.

G.327 1980. Recommendation.

G.328 1981.

G.329 1983, 1985-1986. Correspondence *re* Gutman's research into protons-protein and protons-phospholid interactions and Gutman's proposal to carry out research into mechanisms of proton transfer (conduction) in closed microscopic environment.

G.330 1986. Recommendation.

G.331 1987.

G.332 **Guttman, B. S.** 1964, 1966

Correspondence *re* Guttman's efforts to write a general biology textbook and his seeking advice and reprints from Mitchell.

Correspondence

G.333 **Haashoff, K.** 1966

Hadjiolov, A. A. 1961-1962

Includes correspondence *re* commercial supplies of ADP for experimentation.

G.334 **Haines, T. H.** 1986-1987

Correspondence *re* 'The Elasticity of Synthetic Phospholipid Vesicles...' Haines *et al.*, 25pp typescript with captions and graphs.

G.335 **Halifax Building Society** 1985

Correspondence *re* index linked financing.

G.336, G.337 **Hall, D. O.** 1966-1979

G.336 1966, 1971, 1978.

G.337 1974-1979. Refereeing grant application, 1974 etc.

G.338 **Hall, P. F.** 1968

Halvorson, H. O. 1968, 1978-1979

G.339 **Hamilton, J.** 1982

Correspondence *re* recommendation.

G.340-G.352 **Hamilton, W. A.** 1961-1985

Hamilton was senior lecturer at the Unit of Microbiology, Department of Biochemistry, University of Aberdeen.

Correspondence

G.340 1961, 1970-1973. Includes correspondence *re* Hamilton's research into the succinate thiokinase system and its relevance to succinate transport, 1961; proposed visits to the Glynn Research Institute at end of May 1970, 10 June 1970, and 27-28 July 1970 and issues arising in various papers; correspondence discussing the current state of communication amongst scientists interested in the oxidative phosphorylation issue, 1972-1973.

G.341-G.344 1974. Correspondence *re* Hamilton's draft paper 'Energy Coupling in Microbial Transport'. 71pp typescript draft with captions, figures and 24pp typescript draft summary with captions, figures and graphs. 4 folders.

G.345 1974. Includes correspondence *re* Biochemical Society Colloquium, Cambridge, 1-3 July. See also F.54, F.55.

G.346 1974, 1975. Refereeing grant applications.

G.347 1976. Refereeing grant applications.

G.348 1977. Recommendation.

G.349 1977-1978. Refereeing grant applications.

G.350 1978-1979. Includes letter by Hamilton *re* his ideas on energy coupling in transport, 20 April 1978; correspondence *re* Mitchell's Nobel prize, including a 1p typescript summary of Mitchell's achievements by Hamilton for *Chemistry in Britain.*

G.351 1979-1980. Recommendation.

G.352 1980-1982, 1985. Includes correspondence *re* editorial refereeing.

Correspondence

G.353 **Hampton, M. L.** 1974

Hamylton-Jones, K. 1983

Handler, P. 1978-1979

Hansford, R. 1974-1975

Includes correspondence *re* state 4 pyruvate oxidation in the fly.

G.354-G.358 **Hanson, J. B.** 1973-1983

Hanson was a Professor of Botany at the University of Illinois at Urbana-Champaign.

G.354 1973-1974. Includes detailed correspondence *re* issues arising in various papers concerning valinomycin, ATPase and mitochondrial research.

G.355 1974. 'Valinomycin uncoupling' by J.R. Hensley and J.B. Hanson, sent to Mitchell for comment.

G.356 1974-1976. Includes detailed correspondence *re* issues arising in various papers concerning valinomycin, ATPase and mitochondrial research.

G.357 1976. Correspondence *re* Hanson's paper 'Who is Peter Mitchell, Anyway?', 14pp typescript.

G.358 1977-1979, 1983. Includes correspondence issues arising in various papers concerning ion transport.

G.359 **Hansson, P. A.** 1981

Happold, F. C. 1960-1963

Brief correspondence *re* permeability of *E. coli*.

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Correspondence

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Hardwick, S. 1986

Correspondence *re* the nature of the work carried out at the Glynn Research Institute and its relevance to the good of humanity.

Hardy, S. 1983-1984

Harkness, R. D. 1962

G.360 **Harmon, A.** 1963

Correspondence from Harmon *re* her protolipid work including 5pp resume with tables.

G.361-G.366 **Harold, F. M.** 1968-1990

Harold was a Professor in the Division of Molecular and Cellular Biology at the National Jewish Hospital and Research Center, Denver.

G.361 1968-1974. Includes correspondence *re* Harold's research into ion transport in *Streptococcus faecalis*, 1968 and issues arising in various publications; correspondence *re* visits by Harold to the Glynn Research Institute on 9 March 1971 and 2 January 1972; correspondence *re* D. Green and New York Academy of Sciences Conference on 'Mechanism of Energy Transduction in Biological Systems', New York City, 7-9 February 1972 (see F.49, G.43).

G.362 1973. Recommendation.

G.363 1974-1979. Includes correspondence *re* research carried out by L. Heppel (see G.396) into differences between transport systems involving binding proteins as opposed to proline or lactose porters, 1975; correspondence *re* issues arising from various papers and proposed visit by Harold to the Glynn Research Institute on 6 January 1979; invitation to visit Harold at the National Jewish Hospital and Research Center, Denver 1979 (declined), see also F.103.

G.364 1978. Refereeing grant application.

Correspondence

G.365 1981-1986. Includes correspondence *re* arrangements for visit by Harold and his wife to the Glynn Research Institute 27-31 March 1982; correspondence *re* discussion of the attitude of the British bioenergetics community to cytochrome oxidase proton pump concepts as expressed at a Bioenergetics Symposium in Birmingham (1 April 1982) and also discussion on the future of the Glynn Research Institute, 1981-1982.

G.366 1988-1990. Includes correspondence *re* Mitchell's changing role within the Glynn Research Foundation and Mitchell's invitation to Harold to become a representative for the Foundation in the U.S.A., 1988-1989 (declined); invitation to the Silver Jubilee celebrations at Glynn House, 1990.

G.367 **Harris, A. B.** 1980-1981

Brief correspondence *re* the immobilisation of water in special structures and its relevance to mechanisms of proton conduction.

Harris, D. A. 1975-1977

Correspondence *re* the relationship of tightly bound nucleotides to ATPase reaction.

G.368, G.369 **Harris, E. J.** 1967, 1970, 1978

G.368 1967, 1970.

G.369 1978. Editorial refereeing.

G.370 **Harrison, S.** 1979

Hartley, B. S. 1974, 1978-1979, 1982

G.371 **Hartman, H.** 1977

Correspondence *re* the origin of primitive living organisms.

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Correspondence

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Hartree, E. F. 1980, 1982

Includes correspondence *re* Hartree's reaction to Mitchell's Nobel Lecture printed in *Science*, *Bibliog.* M1979d; correspondence *re* criticisms of Mitchell's views on protonmotive stoicheiometries as expressed in 'Cytochrome Oxidase -a synthesis' by M. Wikström *et al*, Academic Press, 1981.

Harvey, J. A. F. 1980

Mitchell had a brief correspondence with Harvey, a member of a solicitors firm *re* reconciling the charitable status of Glynn Research Ltd with the commercial nature of British Petroleum so as to seek funding from them.

G.372 **Harvey, W. R.** 1981

Correspondence *re* issues raised in 'Portasomes as Coupling Factors in Active Ion Transport and Oxidative Phosphorylation' by W.R. Harvey *et al*, *American Zoologist*, 1981.

Haslam, J. M. 1966-1979

Hasselbach, W. 1973-1979

Includes letter to Hasselbach at the Max-Planck Institute, Department of Physiology, Heidelberg, *re* Ca^{2+}-translocating ATPase, 9 March 1973.

G.373 **Hatefi, Y.** 1974-1991

Includes invitation to the International Union of Biochemistry/International Union of Pure and Applied Biophysics Symposium on 'Structural Basis of Membrane Function', Tehran, Iran, 5-7 May 1975, (declined).

G.374 **Hauska, G.** 1970, 1975, 1977

Includes correspondence *re* invitation to act as chairman at a FEBS Advanced Course on 'Energy Conserving Biomembranes', 27 February - 5 March 1975, (declined); exchange of letters between Hauska and Mitchell *re* criticisms of Mitchell's work made by A. Lehninger, 1977.

Correspondence

G.375 **Hayaishi, O.** 1977

G.376 **Hayek, F. A. von** 1979

Correspondence *re* nomination.

G.377 **Heath, L.** 1970

Heath worked at the Department of Biological Sciences, Plymouth Polytechnic.

Brief correspondence *re* proposed visit to the Glynn Research Institute by Heath.

G.378-G.382 **Heinz, E.** 1961-1986

Heinz worked at the Institut für Vegetative Physiologie, Johann-Wolfgang Goethe Universität, Frankfurt, and then at the Department of Physiology, Cornell University Medical College, New York.

G.378 1961-1967.

G.379 1970-1977. Includes correspondence *re* the Kundig-Roseman system of glucose transport, 1970 and Mitchell's use of the term 'Heterolytic', 1971; correspondence *re* proposed visits to the Glynn Research Institute to carry out research, 1971-1972.

G.380 1978-1979. Includes correspondence *re* research interests of Heinz including electrogenic proton pump and Heinz's work with K. van Dam in Amsterdam (see G.381).

G.381 'The Residual Protonmotive Force...' by E. Heinz and K. van Dam, 31pp typescript draft with captions and graphs, sent to Mitchell for comment.

Correspondence

G.382 1980-1987. Includes correspondence *re* meetings with Mitchell in France and at the Glynn Research Institute, 1980-1982; discussion of research interests of Heinz including electrogenic proton pumps and the electric potential; correspondence *re* visit by Mitchell to the New York Academy of Sciences Meeting on 'Ion-motive ATPases', 11-14 May 1982; 'The response of the "Protonmotive Force"...' by E. Heinz, 11pp typescript draft with captions and graphs.

G.383 **Hemker, H. C.** 1963

Hëmon, P. 1989

G.384-G.391 **Henderson, P. J. F.** 1966-1992

Henderson worked at the Department of Biochemistry, University of Cambridge.

G.384 1966, 1968. External examining.

G.385 1973. Includes correspondence *re* galactose/H^+ and arabinose/H^+ transport; Mitchell's comments on 'Application of the Chemiosmotic Theory to the Transport of Lactose, D-Galactose, and L-Arabinose by Escherichia Coli' by Henderson.

G.386 1974, 1975. Refereeing grant applications.

G.387 1974-1979, 1982-1983, 1987-1988.

G.388, G.389 1977. Refereeing grant applications. 2 folders.

G.390 1989. Recommendation.

Correspondence

G.391 1990-1992. Includes correspondence *re* Henderson's request for information about the Glynn Research Foundation and his decision to take out a share in the company and join the Council of Management, 1990; correspondence *re* sources of support, Council of Management administration (including letter with details of Mitchell's state of health, 20 February 1992), 1991-1992.

G.392 **Hendler, R. W.** 1981-1982

G.393-G.395 **Henlein, L.** 1986

G.393 Editorial refereeing.

G.394, G.395 'Serious Questions An ABC of Skeptical Reflections' by E. Chargaff, 334pp typescript draft, sent to Mitchell for comment. 2 folders.

G.396 **Heppel, L. A.** 1964, 1971, 1974

Herbert, R. W. 1964

G.397 **Hertzberg, E. L.** 1975, 1978-1979

Includes correspondence *re* arrangements for visit to the Glynn Research Institute, 1975.

G.398 **Hess, B.** 1978-1990

Includes informal photograph of Mitchell, February 1978; observations made by Mitchell and J.M. Moyle *re* oxidation of ferrocyanide by cytochrome *c* and cytochrome oxidase in whole mitochondria in which cytochrome *c* reductase has been inhibited by antimycin or myxothiazol or both, 1984; research grant application made by P.R. Rich to the Commission of European Communities, 1989-1990.

Correspondence

G.399 **Hesseling, P. G. M.** 1986-1987

Includes correspondence *re* Hesseling's views on doctoral research, his proposal for a European Doctorate and his invitation to Mitchell to write a preface to his book 'Frontiers of Learning: the Ph.D. Octopus' (declined), 1986.

G.400 **Heyningen, W. E. van** 1961

G.401-G.404 **Hider, R. C.** 1972-1980

G.401 1972-1973, 1978-1979. Includes correspondence *re* proposed visit by Hider to the Glynn Research Institute and two draft papers by Hider sent to Mitchell for comment (see G.402, G.403).

G.402, G.403 'Molecular Mechanisms...' by Hider, two typescripts.

G.402 24pp typescript including captions and figures; 1p manuscript notes by Mitchell.

G.403 17pp typescript including captions and figures.

G.404 1980. Correspondence *re* papers by Hider on the mechanism of amino acid transport.

G.405 **Higuti, T.** 1979, 1981, 1984, 1992

Includes brief correspondence *re* paper by Higuti *Mol.Cell.Biochem.*, **61**, 1984 and the passage of TPA^+, TPP^+, $TPMP^+$ and ethidium across the hydrocarbon domain of the bilayer of the mitochondrion.

G.406 **Hill, G. C.** 1967

Correspondence

G.407 **Hill, R.** 1964-1981

Includes correspondence *re* Hill's understanding of Mitchell's idea of a reversible ATPase system and related terminology, 1967; correspondence *re* arrangements for Photosynthesis Symposium on Electron Transport and Phosphorylation, Seattle, August 1969, (Mitchell withdrew due to illness); detailed correspondence arising from meeting with Hill at the Royal Society 7 November 1968 *re* the work of E.A. Guggenheim and Mitchell's attitude to general background theory in membrane transport and energy transduction especially ion transport in physiology and electrochemical theory; correspondence *re* scientific issues arising in various papers.

G.408 **Hill, T. L.** 1975-1982

Includes correspondence *re* the combination of biochemical and mechanical principles to gain a greater scientific understanding, 1975; Hill's criticism of mechanistic approach of Mitchell to biochemical systems, 1982; 'The linear osager coefficients for biochemical kinetic diagrams as equilibrium one-way cycle fluxes' by Hill, 13pp typescript draft with caption and diagram.

G.409 **Hind, G.** 1978-1979

G.410-G.421 **Hinkle, P. C.** 1967-1992

Hinkle worked at the Section of Biochemistry, Molecular and Cell Biology, Cornell University, Ithaca, New York. He was a postdoctoral Fellow at the Institute in the 1960s.

G.410 1966-1969. Includes correspondence *re* arrangements for Hinkle and his wife Maija to carry out postdoctoral research at the Glynn Research Institute and related correspondence *re* various papers by Hinkle.

G.411 1967-1968. Papers relating to Hinkle's application for and tenure of a postdoctoral research fellowship.

G.412 1969. Recommendation.

Correspondence

G.413 1970. Correspondence *re Bibliog.* HM1970d. See also D.47, D.48.

G.414 1970. Refereeing grant application.

G.415 1970-1974. Includes correspondence *re* recent papers by D.F. Wilson and P.L. Dutton, 1970 (see also G.413), scientific issues in papers by Hinkle and Mitchell, a project by Hinkle and E. Hertzberg *re Micrococcus denitrificans* and experiments concerned with proton permeability and proton translocation, 1971; correspondence *re* New York Academy of Sciences Conference on 'Mechanism of Energy Transduction in Biological Systems', New York City, 7-9 February 1973 (see F.49).

G.416 1975-1977. Includes correspondence *re* Hinkle's criticisms of inhibitor titrations of C.P. Lee, L. Ernster and B. Chance, $\rightarrow H^+/O$ quotients; correspondence *re* paper by Hinkle and R.E. McCarty in *Scientific American, ca.* 1977.

G.417 1975. Recommendation.

G.418 1977-1982. Includes correspondence *re* cytochrome oxidase vesicle (COV) research, 1977-1982; correspondence *re* visit by Mitchell to Hinkle at Cornell University to give a seminar on 'Cytochrome oxidase function and the quest for true proton pumps', 3 November 1980; correspondence *re* book to celebrate Mitchell's birthday, 1981.

G.419 1982. Recommendation.

G.420 1983-1989. Includes correspondence *re* arrangements to attend the Collaborative Consultation on 'Cytochrome Oxidase', Glynn Research Institute, 22-23 March 1983 and to carry out experiments; discussion *re* matters arising from Hinkle's visit to the Institute and scientific issues arising from various papers; invitation to Hinkle to act as a representative for the Glynn Research Foundation in the USA, 1988.

Correspondence

G.421 1991-1992. Includes correspondence *re* various papers by Hinkle discussing chemiosmotic stoichiometries and electrogenic actions; invitation to Mitchell to present a paper at the Racker Memorial Symposium, Cornell University, 19-21 June 1992 (declined).

G.422 **Hiraga, M.** 1967

Hirata, H. 1984-1989

Hiruma, T. 1989

Hiruma was President of Hamamatsu Photonics KK, Hamamatsu City.

Letter *re* fund-raising.

G.423 **Hoch, F. L.** 1968

Correspondence *re* 'loose coupling' and the chemiosmotic hypothesis.

Hoffman, J. F. 1982

Hofsten, B. 1962

Brief correspondence *re* the acid phosphatase activity of bacteria.

Hogg, J. F. 1960-1961

Holden, J. T. 1967

G.424 **Holton, F. A.** 1967-1968, 1973-1979

G.425 **Holton, G.** 1981-1982

Includes correspondence *re* 'The Two Maps on the Wall' by G. Holton, *ca.* 1981; correspondence *re* Mitchell's interest in behavioural biology specifically money in human communication.

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Correspondence

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Hommes, F. A. 1965

Brief correspondence *re* Hommes' paper 'Substrate Dependent Compartmentation of ATP in Rat Liver Mitochondria'.

Honeywell Controls Limited 1961-1962

G.426 **Hooper, A. B.** 1984-1985

Brief correspondence *re* Hooper's paper concerning the location of proton-yielding dehydrogenases in the bacterial periplasm.

Hooper, C. M. 1979

Hope, A. B. 1971-1989

Hopfer, U. 1977-1978

Hopfer wrote to Mitchell commenting on his second 'grey book', *Bibliog.* M1968c.

G.427 **Horgan, D. B.** 1987-1988, 1992

Correspondence *re* the foundation of the University of Notre Dame, Fremantle, Australia.

G.428 **Horio, T.** 1973

Horrobin, D. F. 1986

Correspondence *re* forms of funding for scientific research.

G.429 **Horton, A. A.** 1967, 1972

Refereeing grant applications, 1972 etc.

Correspondence

G.430 **House, D. R.** 1967

Howell, N. 1987-1988

Howland, J. L. 1966-1969, 1973

Includes correspondence *re* Mitchell's request for Hydrolapachol and DNQ to use as respiration inhibitors in experimental work on the synthesis of ATP by rat liver mitochondria, 1966.

G.431 **Hsu, H. H. T.** 1978-1979

Huber, R. 1985

Hudson, R. F. 1990

Correspondence *re* Hudson's understanding of the chemical aspect to oxidative phosphorylation.

G.432 **Hughes, D. E.** 1966

Hull University 1992

Hunt, M. 1990

Hunter, F. E. 1965-1966

Hunter, G. D. 1961

G.433 **Hussain, M.** 1979

Correspondence in which Mitchell expresses some of his personal views on life, his achievements and his Nobel prize success.

Correspondence

G.434 **Huszagh, V. A.** 1989

Correspondence *re* 'The Hypothetical Way of Progress' by V.A. Huszagh and J.P. Infante, *Nature*, vol. 338, 9 March 1989; correspondence *re* Mitchell's plans for a lecture on 'Heuristic Procedures in Biochemistry', (see also D.441, D.442).

G.435 **Hutchinson, F.** 1962

Hutner, S. H. 1966, 1976-1977

G.436 **I. B. M.** 1980-1981, 1989

Includes correspondence *re* fund-raising, 1989.

G.437 **Iliesiu, D.** 1979, 1981-1982

Inesi, G. 1982

Infante, J. P. 1989

See G.435.

Institute of Biology 1982

International Organisation of Journalists 1985-1986

Itoh, S. 1979

G.438-G.442 **Jackson, J. B.** 1972-1990

G.438 1971-1972. Refereeing grant application.

Correspondence

G.439 1978-1983, 1987. Includes correspondence *re* visit to the Glynn Research Institute, 1972; correspondence *re* the anomalous rate of H^+ binding in chromatophores and other research issues arising in various papers (including *Bibliog.* M1978b).

G.440 1976. Refereeing grant application.

G.441 1989. Recommendation.

G.442 1990. Includes invitation for Jackson to attend Silver Jubilee celebrations at the Glynn Research Institute; correspondence *re* transhydrogenase and the redox loop.

G.443 **Jackson, P.** 1991

Jacobson, H. I. 1976

Jaenicke, L. 1968, 1973

Jaffe, L. F. 1979-1980

G.444-G.450 **Jagendorf, A. T.** 1964-1989

Jagendorf worked at the McCollum-Pratt Institute, Johns Hopkins University and later at Cornell University.

G.444 1964-1965. Correspondence *re* Jagendorf's observation of a pH gradient observed in the chloroplast phosphorylating system; 6pp manuscript notes by Mitchell.

G.445 1965. 'Effect of uncouplers...' by Jagendorf and G. Hind, Information Exchange Group No. 1; 3pp manuscript notes by Mitchell; draft figures of cyclic and non-cyclic photophosphorylation.

Correspondence

G.446 1965. 'ATP formation caused by acid-base transition of spinach chloroplasts' by Jagendorf and E. Uribe, 13pp typescript draft with captions, figures, tables and graphs.

G.447 1965-1966. Includes correspondence *re* research interests and Jagendorf's visit to the Glynn Research Institute, 1965; detailed correspondence *re* Jagendorf's research involving spinach chloroplasts and recent findings in a paper by B. Pressman in *Proc. Nat. Acad. Sci.* 53, 1965; correspondence *re* the Gordon Conference 30 August-4 September 1965 including reference to ATP synthesis in the chloroplast system during pH shift experiments carried out by Jagendorf, 1965-1966.

G.448 *ca.* 1966. 'Photophosphorylation and the Chemi-Osmotic Hypothesis' by Jagendorf and E. Uribe, 38pp typescript draft with captions, figures and graphs.

G.449 1967-1972. Includes correspondence *re* Jagendorf's research *re* measurement of pH shift in spinach chloroplasts and discussion of issues arising in various papers, 1970-1972.

G.450 1973-1979, 1989. Includes correspondence *re* the mitochondrial ATPase system and the visit by Jagendorf to the Glynn Research Institute, April 1973; correspondence *re* scientific issues arising in various papers including discussion of preparations for the 'joint review' (see also D.102-D.108, G.76-G.81, G.170); correspondence *re* direct coupling and chemiosmotic coupling, 1974; letter to Mitchell mentioning the concept of chemiosmosis held by R.J.P. Williams, 12 April 1976.

G.451-G.462 **Jagow, G. von** 1982-1992

Jagow worked at the Institut für Physiologische Chemie, Physikalische Biochemie und Zellbiologie der Universität München.

G.451 1982. Correspondence *re* 'Characterization of a New Reaction Site...' by Jagow *et al*, 17pp typescript draft with captions, diagrams and graphs.

G.452 1982-1983. Includes correspondence *re* 'New inhibitors...' by Jagow, 10pp typescript with tables, diagrams and graphs, November 1982; correspondence *re* Jagow's continuing cytochrome experiments.

Correspondence

G.453 1983. Recommendation.

G.454 *ca.* 1983. 'An inhibitor of mitochondrial respiration...' by Jagow *et al*, 24pp typescript draft with captions and graphs, submitted for publication to the *Journal of Biological Chemistry*.

G.455 1985.

G.456 1985-1986. Includes correspondence *re* draft version of 'Ubiquinol: cytochrome *c*...' by Jagow *et al*, 14pp typescript including captions, illustrations and diagrams, 1985; correspondence *re* von Jagow's schemes on the Bohr-effect-induced redox pump and Bohr-effect-mediated Q cycle, 1986.

G.457 1986. Recommendation.

G.458 1986-1987.

G.459 1987. 'Proton transport...' by Jagow *et al*, 37pp typescript draft with captions, figures and tables with covering letter, 18 April.

G.460 1987. Includes correspondence *re* a paper on electron transfer systems on which Jagow was working; 'Evolutionary aspects of electron transfer systems' by Jagow, 15pp typescript draft with figures and tables, 8 April.

G.461 1987. Correspondence *re* cytochrome oxidase.

G.462 1988-1989, 1992. Includes correspondence *re* paper on methoxyacrylate (MOA) inhibitors, Stigmalellin and derivatives, 1988.

Correspondence

G.463-G.465 **James, M.** 1991-1992

James was Director of the Winnicott Research Trust. In 1991 Mitchell became Chairman of the Advisory Committee of the Trust. See also E.165-E.171.

Papers *re* the funding of research by the Winnicott Trust. 3 folders.

G.466 **Järvisalo, J.** 1972

G.467 **Jayasuriya, H.** 1974

G.468-G.470 **Jeacocke, R.** 1971-1990

Jeacocke worked at the Department of Biochemistry, University of Aberdeen and later at the Agricultural and Food Research Council Institute of Food Research, Bristol.

G.468 1971-1972. Includes correspondence *re* issues arising in various papers and *re* laboratory procedure and experimental research being carried out by Jeacocke; correspondence *re* proposed visit to the Glynn Research Institute.

G.469 1972-1973. Includes correspondence *re* Jeacocke's research and his career; correspondence *re* Jeacocke's proposed visit to the Glynn Research Institute.

G.470 1977-1978, 1990. Includes correspondence *re* Jeacocke's research interests and Mitchell and Moyle's research involving the lanthanide-sensitive calcium phosphate porter system, 1977.

G.471 **Jencks, W. P.** 1977

Includes correspondence *re The Road to Serfdom* by F.A. von Hayek (1944); correspondence *re* energy coupling hypotheses and issues arising in a draft paper by Jencks.

Correspondence

G.472 **Jenkins, W. T.** 1988

Jennings, D. H. 1962, 1979

John, P. 1976, 1978-1979

Johnson, R. 1976-1977

Includes correspondence *re* Johnson's research on the nature of state 4 pyruvate oxidation in blowfly flight muscle mitochondria.

Joliot, P. 1984

G.473 **Jones, B. M.** 1965, 1979-1981

Includes correspondence *re* Jones's development of a cell contact behaviour model and his paper 'Regulation of the Contact Behaviour of Cells', 1979-1981; 'Regulation of cell contact behaviour' by Jones, 8pp typescript draft with caption, figure and table.

G.474-G.476 **Jones, C. W.** 1973-1983

G.474 1973. Refereeing grant application.

G.475 1976. Refereeing grant application.

G.476 1978-1983.

G.477, G.478 **Jones, G. R. N.** 1974-1983

G.477 1974, 1976.

G.478 1983.

Correspondence

G.479	**Jones, M. G. K.**	1968
	Jones, O.	1966
G.480	**Jones, O.**	1975
	Note *re* recommendation.	
G.481	**Jones, S.**	1981-1982
G.482	**Jordan, D. C.**	1960
	Jørgensen, P. L.	1982
G.483-G.488	**Junge, W.**	1967-1991
G.483	1967, 1970, 1978-1979. Includes correspondence *re* supplies of gramicidin S and experiments therewith, 1967; correspondence *re* 'Relaxation Times of Proton Pumping into Thylakoids...' by Junge *et al*, 15pp typescript draft with captions and graphs, 1978.	
G.484-G.486	1986-1987. Papers *re* Mitchell's sponsorship of Junge's paper, 'Complete Tracking...', in *Proc. Natl. Acad. Sci.* Includes typescript drafts of the paper; correspondence; editorial refereeing etc.	
G.487	1987. Correspondence *re* draft paper entitled 'Complete Tracking...', 14pp typescript draft with captions and graphs.	
G.488	1987-1991. Correspondence *re* various papers by Junge, mainly dealing with stages in their publication.	

Correspondence

G.489-G.496 **Kaback, H. R.** 1973-1991

G.489 1973-1977. Includes correspondence *re* Mitchell's attendance at the New York Academy of Sciences Conference on 'Mechanism of Energy Transduction in Biological Systems', New York City, 7-9 February 1973, see F.49; correspondence *re* proposed visit to the Glynn Research Institute, September 1973, draft papers by Kaback, research interest of Kaback in transport systems and experiments involving membrane vesicles of *E. coli* etc. and visit to the Glynn Research Institute 27-29 June 1976.

G.490 1978-1979. Includes correspondence *re* draft papers by Kaback.

G.491-G.493 Two typescript draft papers by Kaback *et al.* 3 folders.

G.494 1979-1983. Includes correspondence *re* draft papers by Kaback and terminology use in membrane vesicle research.

G.495 1984. Correspondence *re* 'Cytochrome o Oxidase from *Escherichia coli*...' by Kaback *et al*, 19pp typescript draft with captions, tables, illustrations and graphs.

G.496 1985-1991. Includes correspondence *re* Kaback's research on the mechanism of lactose-coupled proton translocation and a mobile barrier mechanism, 1986-1988.

G.497, G.498 **Kagawa, Y.** 1974-1990

G.497 1974-1987. Invitation to lecture on the chemiosmotic theory at the 50th Anniversary Meeting of the Japanese Biochemical Society, October, November 1975 (declined); correspondence *re* Kagawa's research on the phosphorylation system of thermophilic bacteria, 1974; issues arising in various papers including the nature of F_oF_1 ATPase as being oxideionmotive or protonmotive, 1982 and the protonmotive action of cytochrome oxidase, 1987; correspondence *re* arrangements for Collaborative Consultation on 'Proton Translocation by Cytochrome Oxidase' to be held at the Glynn Research Institute in 22-24 March 1983 (see also F.149-F.153).

Five photographs of the Glynn Research Institute including photographs of a conference held there [?Collaborative Consultation].

Correspondence

G.498 1988-1990. Includes correspondence *re* translation into Japanese of *Bibliog.* M1989b; correspondence *re* the crystallisation of $TFoF_1$ and related experiments thereon by Kagawa, 1989.

G.499 **Kakkar, R. K.** 1967

G.500 **Kalckar, H. M.** 1966-1978

G.501-G.503 **Kamp, F.** 1985-1986

G.501 Includes correspondence *re* Kamp's research on localised versus delocalized protonic coupling systems and barriers to proton movement, 1985; correspondence *re* paper by Kamp *et al* on membrane potential.

G.502, G.503 'Spatial Charge Distribution...' by Kamp *et al*, 46pp typescript with captions, diagrams and graphs. 2 folders.

G.504 **Kaplan, M. A.** 1989-1990

Includes correspondence *re* invitation to Kaplan to contribute to proposed book 'Science and Humanity' in celebration of the Glynn Research Foundation Silver Jubilee, 1989 see also D.202-D.206; correspondence *re* Mitchell's attendance at the 4th International Congress of Professors World Peace Academy, London, 25-29 August 1989, see also F.307-F.309.

G.505 **Kaplan, R. J.** 1967-1968

Karelin, A. A. 1991

G.506 **Karlish, S. J. D.** 1983

Recommendation.

Correspondence

G.507-G.511 **Kashket, E. R.** 1972-1984

G.507 1972-1979.

G.508, G.509 1974. Refereeing grant application. 2 folders.

G.510 1981. Recommendation.

G.511 1982-1984. Includes correspondence *re* Kashket's papers concerning stoichiometry of *Escherichia coli* cells during aerobic and anerobic growth.

G.512 **Katchalsky, A.** 1960

Katz, J. J. 1962

G.513 **Kaufmann, K.** 1983, 1987

1983, 1987. Correspondence *re* Kaufmann's draft paper 'On the Protonic Control...' mainly discussing the problem of transport through specifically induced ion channels, 1983.

G.514 **Kay, H.** 1978-1981

Includes correspondence *re* university grants from central government, funding for science in general and communication between centres of learning and the community, 1981.

G.515 **Kayalar, C.** 1979

Keat, R. 1989

Kefeli, V. I. 1989

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Correspondence

/...

Keilin, D. 1962

Letter to Keilin seeking his support as a referee for Mitchell's appointment to a Readership at the University of Edinburgh, including discussion of Mitchell's findings *re* the cytochrome system of *Micrococcus lysodeikticus*, 22 May 1962. See also G.553.

G.516 **Kell, D. B.** 1977-1979

Includes correspondence *re* Kell's understanding of *Bibliog.* M1967g; correspondence *re* issues arising in review by Kell discussing interpretation of respiratory control including the 'Pacific Ocean' effect; correspondence *re* Mitchell's concept of specific ligand conduction and his paper *Bibliog.* M1963c; correspondence *re* mitochondrial nomenclature, 1979.

G.517 **Kellenberger, E.** 1960

Kelly, D. P. 1988

Includes letter from Mitchell *re* the possibility of cytochrome aa_3 being non protonmotive, 29 April 1988.

Kemeny, G. 1975-1978

Includes correspondence *re* the chemical, chemiosmotic, conformational and pair theories in relation to energy transmission in mitochondria, 1975; exchange of letters in which Kemeny refers to disagreement between R.J.P. Williams and Mitchell and also Mitchell's views on the possibility that protons in the membrane carry out energy coupling before equilibration with the aqueous compartments, 1976-1977.

G.518 **Kemp, A.** 1972, 1978-1979

Includes letter to Kemp discussing proposed work at the Glynn Research Institute on $\rightarrow P^+/O$ quotient measurements; supplies of aurovertin; and work on H/P stoichiometry of the mitochondrial proton-translocating ATPase, 21 September 1972.

Correspondence

G.519, G.520 **Kendrew, J. C.** 1978-1979, 1986-1991

G.519 1978-1979, 1986-1991. Includes invitation to Kendrew to become a Patron of the Glynn Research Foundation, 1987 and correspondence *re* his role as patron; invitation to contribute article to the proposed book 'Science and Humanity' in celebration of the Glynn Research Foundation Silver Jubilee, 1988, (see also D.202-D.206).

G.520 1989. Correspondence *re* a research grant application to the Commission of the European Communities by the Glynn Research Institute.

G.521 **Kenkare, U. W.** 1980

Recommendation.

G.522 **Kennedy, D. A.** 1968, 1978-1979

Kennedy, E. P. 1969-1970

Kernan, R. 1978-1979

Kettle, D. S. 1978-1979, 1988

Includes correspondence *re* 'Entomology Beyond the Bicentennary' by Kettle which includes a photograph of Mitchell with his dog, 1988.

Key, C. 1987

G.523 **Keynan, A.** 1976

G.524-G.527 **Keynes, R. D.** 1961-1982

G.524 1961-1980.

G.525 1975 May, July. Refereeing grant application.

Correspondence

G.526 1975 September, December. Refereeing grant application.

G.527 1982. Nomination.

G.528 **Khan, N. A.** 1975, 1978-1979

G.529, G.530 **Khan, S. M. M.** 1983-1991

G.529 1983-1988. Includes correspondence *re* papers on flagellar motor research of Khan, 1983.

G.530 1991. Recommendation.

G.531 **Kiang, J.** 1985

Correspondence *re* Kiang's book 'One World' including discussion of human communication and world peace.

Kiesow, L. A. 1977

Kihara, T. 1966

G.532 **Kikuchi, K.** 1984-1985

Correspondence *re* Kikuchi's research on the apparent effect of maleate on mitochondrial succinate oxidation after addition of pyruvate and also the relation between the osmolality of suspension that would change the ultrastructure of mitochondria and the ATP synthesis rate; photographs of Mitchell at the Jichi Medical School during the fifty-seventh Annual Meeting of the Japanese Biochemical Society, Tokyo University, Japan, 6-9 October 1984, see F.173-F.182.

G.533 **Kim, C. H.** 1979-1991

Includes correspondence *re* personal relations with T.E. King.

Correspondence

G.534 **King Faisal International Prize** 1984

King, C. C. 1978-1979

G.535-G.552 **King, T. E.** 1966-1991

King was Professor of Chemistry-Biochemistry at the State University of New York at Albany and from 1987 a Co-Director at the Institute for Structural and Functional Studies, University City Science Center, Philadelphia.

G.535 1966-1975. Includes letter by Mitchell *re* the effects of bilirubin and the position of coenzyme Q, 6 January 1970; correspondence *re* the distribution of Mitchell's 'grey books' in the United States, 1971 and the midpoint potential of the FMN of the NADH dehydrogenase, 1972; correspondence *re* the sequence of carriers in the cytochrome *b*, cytochrome c_1 and coenzyme Q region, 1973-1974; correspondence *re* the state of the bioenergetics field, 1974; correspondence *re* the visit by Mitchell and E. Racker to King at the State University of New York at Albany, 27 October 1974 and *re* the Q cycle.

G.536 1975-1977. Includes correspondence *re* arrangements to visit the Glynn Research Institute, Mitchell's Q cycle schemes; correspondence *re* various papers including 'Biochemical and EPR Probes...' by King *et al* (see G.537, G.538); correspondence *re* the contribution of D. Keilin, King and others to the foundation of respiratory chain and cytochrome systems knowledge, 1976 and the scientific position of B. Trumpower as understood by Mitchell following a visit by the former to the Glynn Research Institute in 1976.

G.537, G.538 'Biochemical and EPR Probes...' by T.E. King *et al*, *ca.* 1976. See G.536. 2 folders.

G.539 1977-1980. Includes correspondence *re* various papers, King's work on isolating the Q-reactive protein that reconstitutes with succinate dehydrogenase to give succinate-Q oxidoreductase, 1978 and correspondence *re* repeated equilibration of the isolated cytochrome oxidase with deuterium labelled buffer D_2O, 1980.

G.540 1979, 1980. Refereeing grant applications.

Correspondence

G.541 1980. Recommendation.

G.542 1980-1981. Includes correspondence *re* King's research into cytochrome oxidase and deuterium exchange, 1980; correspondence *re* arrangements for Mitchell to visit King in Albany, 1980; correspondence *re* the presentation of a *Festschrift* volume to Mitchell on his sixtieth birthday at the Gordon Research Conference on 'Energy Coupling Mechanisms', Plymouth, New Hampshire, 17-21 August 1981, see F.118, F.119.

G.543 1981-1982. Recommendations.

G.544 1981-1982. Includes correspondence *re* papers by King on his recent cytochrome research.

G.545 1982. Includes copies of King's correspondence with A. Azzi and E.C. Slater.

G.546 1982-1983. Includes correspondence *re* report to Mitchell by King of the Second European Bioenergetics Conference, Lyon, 9-10 July 1982, (see F.146) and general discussion of the state of cytochrome oxidase vesicle research; correspondence *re* arrangements for sending cytochrome oxidase samples to Mitchell for experimental work; correspondence *re* cytorchrome oxidase, Collaborative Consultation on 'Election Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', Glynn Research Institute, Cornwall, 22-25 March 1983, see F.149-F.153, proposed visit to the Glynn Research Institute by King, May 1983.

G.547 1983. Letter *re* research grant award to King, 6 June.

G.548 1983. Includes correspondence *re* recommendations, 1983; correspondence *re* cytochrome oxidase research, visit by King to the Glynn Research Institute November 1983; Mitchell's comments on a paper by P. O'Shea; Mitchell's comments on King's draft paper 'Ubiquinone Proteins with Emphasis of OP-N'.

G.549 1984. Recommendation.

Correspondence

G.550 1984. Includes correspondence *re* cytochrome oxidase research and intended collaboration between Mitchell and King on the cytochrome oxidase proton pump problem.

G.551 1985-1987. Includes correspondence *re* research work of King's graduate student A. Williams on proton translocation, 1985; correspondence *re* the mechanism of cytochrome oxidase pumping including Mitchell's thinking on the O loop and O cycle mechanisms for cytochrome oxidase, 1985.

G.552 1988-1991.

G.553 **Kitchin, H.** 1992

Kitching, J. A. 1964

Klein, R. A. 1986-1987

Includes correspondence *re* the proposed establishment of the David Keilin Foundation for Research in Tropical Disease, 1986 and Mitchell's position as a researcher in the late 1940s and his memories of D. Keilin. See also G.515.

G.554-G.557 **Kleinzeller, A.** 1960-1992

G.554 Includes correspondence *re* published proceedings of the Symposium on 'Membrane Transport and Metabolism', Prague, 22-27 August, 1960, see also F.2.

G.555 1973, 1978-1979.

G.556 1991-1992. Correspondence *re* a series of essays on the conceptual development in the membrane field being written by Kleinzeller including reference by Mitchell to his work with J. Danielli at Cambridge.

G.557 1992. Correspondence *re* essays by Kleinzeller; 28pp typescript draft with figures.

Correspondence

G.558 **Klingenberg, M.** 1964-1976

Includes correspondence *re* paper by Klingenberg and his research on directional enzymes, 1964; correspondence *re* Mitchell's 'brochure on chemiosmotic coupling' [?*Bibliog.* M1966b], Klingenberg's research on the equilibrium aspects of respiratory control, 1966; correspondence *re* Mitchell's research into the ATP/ADP translocator and its rate-limiting on the hydrolysis of ATP in rat liver mitochondria, 1967; correspondence *re* issues of ATPase and succinate porter research, 1967-1969.

G.559 **Klungsöyr, L.** 1981

Correspondence *re* Klungsöyr's ideas about the primary nucleophile in ATP synthesis.

Knafelc, D. 1980

Knight, V. A. 1969, 1974

Correspondence *re* arrangements to visit the Glynn Research Institute, 1969; correspondence *re* Knight's experiments on the electrocution of mitochondria, 1974.

G.560-G.563 **Koch, A. L.** 1974-1985

G.560 1974. Refereeing grant application.

G.561, G.562 1975. Refereeing grant application. 2 folders.

G.563 1984-1985. Includes comments by Mitchell *re* paper by Koch.

G.564 **Kodicek, E.** 1967-1968

Includes correspondence *re* obtaining supplies of diets for riboflavine deficiency and supplies of sulphasuxidine.

Correspondence

G.565, G.566	**Kogut, M.**	1991-1992
G.565	1991. Includes correspondence *re* Mitchell's efforts to establish a summer vacation studentship at the Glynn Research Foundation.	
G.566	1991-1992. Refereeing grant application.	
G.567	**Kok, B.**	1977
G.568-G.570	**Komor, E.**	1973-1977
G.568	1973-1977. Includes correspondence *re* arrangements for Komor to visit the Glynn Research Institute to carry out research work.	
G.569	1974. Correspondence *re* report on the work of E. Komor at the Glynn Research Institute.	
G.570	*ca.* 1974. 'Scientific Report of the Stay at Bodmin England' by E. Komor.	
G.571	**Kondrashova, M.**	1983, 1989
	Konetzka, W.	1962
G.572-G.577	**Konings, W. N.**	1978-1985
G.572	1978-1979. Includes correspondence *re* Konings's work on *Streptococcus cremoris.*	
G.573	1979-1980. Correspondence *re* communication of 'Generation of an electrochemical proton gradient...' by Konings *et al* for publication in *Proc. Natl. Acad. Sci.*	

Correspondence

G.574 1980-1982. Includes papers *re* Mitchell's communication of 'The Physical Mechanism...' by Konings and G.T. Robillard for publication in *Proc. Natl. Acad. Sci.*, 1981-1982.

G.575 *ca.* 1982. 'The Physical Mechanism...' by Konings and Robillard, 17pp typescript draft with captions and graphs.

G.576 1982. Application for a fellowship.

G.577 1982-1985. Includes correspondence *re* Konings's visit to the Glynn Research Institute including report of research activities, 1982; correspondence *re* Mitchell's thinking on proton translocation by cytochrome oxidase, 1985.

G.578-G.585 **Koppenol, W. H.** 1979-1991

Koppenol was a Research Associate of North-Western University, Illinois from 1978-1981 and an Assistant Professor at the University of Maryland from 1981 onwards.

G.578 1979-1981. Includes correspondence *re* electrostatic effects in mitochondria, electric field between two parallel surfaces, the Donnan effect 1979-1980; correspondence *re* Koppenol's visit to the Glynn Research Institute, 1980.

G.579 1981. Recommendation.

G.580 1981-1982. Includes correspondence *re* poster design by Koppenol for conference in Mexico City, 1981, publication of Koppenol's electrostatic model and discussion of the theory behind it, 1981; correspondence including Mitchell's comments on small-scale electrostatic coupling in ATPases, 1981; correspondence *re* visit to the Glynn Research Institute in February 1982 *re* collaborative paper on 'Chemiosmotic ATPase Mechanisms' to be presented at the New York Academy of Sciences Conference on 'Ionmotive ATPase Mechanisms', 11-14 May 1982, see also F.130-F.136

Correspondence

G.581 1982. Includes correspondence *re* travel grant for Koppenol to visit the Glynn Research Institute in 1983; correspondence *re* the work of [?T.H.] Haines, New York, on the stabilisation of negatively charged membranes.

G.582 1982. NATO research and travel grant application for Mitchell/Koppenol collaboration on Electrostatic Regulation of Electron Flow in the Mitochondrial Respiratory Chain.

G.583 1983. Correspondence *re* research by Mitchell into proton ejection by cytochrome oxidase vesicles.

G.584 1984-1986. Includes correspondence *re* Koppenol's efforts to isolate rat liver mitochondria, 1984 and Mitchell's research interests in osmochemistry of cytochrome system; correspondence *re* Mitchell's proposed cytochrome oxidase mechanism, the dipole moment of hydrogen peroxide, 1986 and various papers.

G.585 1987-1991. Includes correspondence *re* various papers, co-ordination geometries of copper and other aspects of Mitchell's research into the Cu loop mechanism, 1987; correspondence *re* contribution of Koppenol's parents to the Glynn Research Institute studentship, 1991.

G.586 **Kornberg, A.** 1978-1979

G.587, G.588 **Kornberg, H. L.** 1976-1983

G.587 1976-1983. Includes correspondence *re* fund-raising etc.

G.588 1977. Refereeing grant application.

Correspondence

G.589 **Koryta, J.** 1983-1984

Koshland, D. E. 1977-1979

Kovac, L. 1988

Kowalchuk, J. M. 1982

G.590 **Kozak,** 1977

Editorial refereeing.

G.591 **Kozlinski, Z.** 1979-1980

Correspondence *re* Kozlinski's paper 'Utilization of an Alternative Energy TS'.

G.592 **Kozlov, I. A.** 1977-1985

Includes correspondence *re* 1977 *FEBS Lett.* commentary by Mitchell discussing H^+ ion movement along the proton conduction path (F_0); correspondence *re* visit to the Glynn Research Institute 12 August 1978.

G.593 **Kraan, G. P. B.** 1971

Letter from Kraan *re* gramicidin D inhibition, 24 March.

Kraayenhof, R. 1974

Krab, K. 1982-1983

Kraus-Friedmann, N. 1986

Correspondence

G.594, G.595 **Krebs, H. A.** 1961-1982

G.594 1961-1982. Includes correspondence *re* anisotropic ATPase and Mitchell's recognition of Krebs's suggestion that osmotic energy may be a link in oxidative phosphorylation, 1961; correspondence *re* chemiosmotic hypothesis; correspondence *re* mechanism of oxidative phosphorylation, 1966-1967; discussion of *Bibliog.* MM1973b including Krebs's view of the physiological function of the transhydrogenase system and other issues, 1972-1973;

G.595 1979. Nomination.

G.596 **Krishnamoorthy, G.** 1987

Kristev, K. 1967

Kröger, A. 1975-1976

Includes correspondence *re* the difference of kinetic behaviour of ubiquinone in (uncoupled) mitochondria as compared with sonic particles, 1975; correspondence *re* the Q cycle.

G.597 **Kroll, R.G.** 1982

Application for travel grant.

G.598, G.599 **Krulwich, T. A.** 1978-1984

G.598 1978. Refereeing grant application.

G.599 1978-1984. Includes correspondence *re* Krulwich's research and papers on the subject of the applicability of the protonic type of chemiosmotic mechanism in bacteria which grow at extremes of pH, 1978-1979; Mitchell's comments on 'A $\Delta\Psi$ Generated by Respiration...' by Krulwich, 1984.

Correspondence

G.600 **Kühn, K.** 1988

Recommendation.

G.601 **Kun, E.** 1970, 1973

Correspondence *re Bibliog.* MM1973b in particular discussion on the mitochondrial malate dehydrogenase and its possible slow reaction with NADPH, 1973.

G.602 **Kurti, N.** 1987-1991

Includes correspondence *re* the scientific establishment and originality in science, 1987-1991; Mitchell's comments on Kurti's draft paper 'The Limits of Scientists' Science', 1991.

Kurup, C. K. R. 1967

G.603, G.604 **Lancaster, J. R.** 1973-1983

G.603 1973-1974, 1979-1983. Correspondence arising from papers by Lancaster.

G.604 1978. Editorial refereeing.

G.605 **Land, E. J.** 1972

Landry, Y. 1978

Landsberg, P. T. 1975, 1985-1986

G.606 **G.R. Lane Health Products Ltd.** 1989-1990

Correspondence etc. *re* fund-raising and the Glynn Research Institute's interest in ubiquinone.

Correspondence

G.607, G.608 **Lanyi, J. K.** 1975-1979, 1990-1991

G.607 1975-1979. Correspondence *re* arrangements for a visit by Lanyi to Glynn for scientific discussion, 9-11 June 1975; correspondence *re* draft of a chapter by Lanyi for the book, *Membrane Proteins in Energy Transduction*, 1976-1977 etc.

G.608 1990-1991. Correspondence etc. *re* Lanyi's involvement at the Silver Jubilee meeting at Glynn and *re* bacteriorhodopsin.

G.609 **Lardy, H. A.** 1968-1969, 1974

Includes correspondence *re* the effects of aurovertin, 1968-1969.

G.610 **La Rivière, J. W. M.** 1962

Correspondence *re* obtaining samples of the organisms *Thiovulum majus* and *Achromatium oxaliferum* for Mitchell's research on the mechanism of electron and ion transport.

Larsen, S. H. 1974

Laties, G. 1966, 1978-1979

Läuger, P. 1967

G.611 **Laurent, P.** 1968

Correspondence *re* Mitchell's chemiosmotic theory.

Lavenda, B. H. 1973

Leadbetter, E. R. 1965

Correspondence

G.612 **Lebensbaum Verlags GMBH** 1991

Correspondence seeking Mitchell's support in promoting *The Miracle Nutrient Coenzyme Q_{10}* by Bliznakov and Hunt (declined).

Lederberg, J. 1986, n.d.

G.613, G.614 **Lee C.-P.** 1965-1984

G.613 1965-1968. Correspondence *re* arrangements for Lee's visit to Glynn for collaborative research work relating to oxidative phosphorylation, December 1965; correspondence *re* the possibility of Lee working at Glynn for a year or more, 1967 and *re* paper 'Bromthymol Blue as a pH indicator in Mitochondrial Suspensions', by Mitchell, Moyle and Smith, *Bibliog.* MMS1968a.

G.614 1969-1984.

G.615 **Lee, S. J.** 1987

Leeuwerik, F. J. 1979

Lehmann, J. 1979

G.616-G.622 **Lehninger, A. L.** 1960-1985

Lehninger was Professor and Director of the Department of Physiological Chemistry, Johns Hopkins University, Baltimore, USA.

G.616 1960-1961. Includes correspondence *re* Mitchell's chemiosmotic hypothesis and the question of 'intermediates'.

G.617 1962. Includes correspondence *re* arrangements for Lehninger's visit to Edinburgh, 10-15 April 1962; recipe for making sonic particles, sent to Mitchell by Lehninger, March 1962; letters by Lehninger offering to arrange a visiting lectureship for Mitchell at Johns Hopkins School of Medicine, etc.

Correspondence

G.618 1965-1966. Correspondence *re* the incapability of brain mitochondria to swell and *re* discrimination between the osmotic functions of inner and outer membranes; correspondence *re* arrangements for Mitchell to give a lecture at Johns Hopkins, on 'Chemiosmotic Coupling', 16 November 1965 etc.

G.619 1967-1970. Includes correspondence *re* Mitchell's chemiosmotic hypothesis, 1967 and *re* arrangements for Lehninger to visit Glynn, 15-17 March 1970.

G.620 1974-1975. Correspondence *re* disagreements over the stoichiometry of proton translocation in respiratory chain and ATPase systems and the implications for the chemiosmotic hypothesis.

G.621 1976-1977. Correspondence *re* the stoichiometry of proton translocation.

G.622 1978-1985. Includes correspondence *re* work on cytochrome oxidase.

G.623, G.624 **Leibowitz, D. H.** 1991-1992

G.623 1991-1992. Correspondence seeking Mitchell's help with publication.

G.624 1991. Manuscript sent to Mitchell by Leibowitz, etc.

G.625, G.626 **Lenaz, G.** 1976, 1978-1986

G.625 1976. Editorial refereeing.

G.626 1978-1986. Includes annotated photocopy of article by Lenaz *et al*, 1986.

G.627 **Lenk, R.** 1978-1979

Leonard, M. 1976

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Correspondence

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Leung, K. H. 1974

Leupin, S. 1979

Lewis, A. 1978-1979

G.628, G.629 **Liberman, E. A.** 1967-1979

G.628 1967-1968. Correspondence *re* Mitchell's chemiosmotic hypothesis.

G.629 1969-1970. Includes correspondence *re* the chemiosmotic hypothesis and Liberman's research.

G.630 **Lilley, R. McC.** 1971, 1976

Correspondence *re* possibility of Lilley working at the Glynn Research Institute, 1971.

Lin, E. C. C. 1975

Lindner, W. A. 1977

G.631 **Lindsay, G.** 1983-1988

Correspondence *re* the delivery of biological samples.

G.632, G.633 **Ling, G.N.** 1973, 1982-1984

G.632 1973. Correspondence *re* manuscript sent to Mitchell by Ling for comment.

G.633 1982-1984. Includes photocopies from proof of Ling's *book In Search of the Physical Basis of Life*, containing details about Mitchell's work.

Correspondence

G.634 **Lingard, J. W.** 1966

Correspondence *re* visit by Lingard and his daughter and the possibility of a group visiting from the Grammar School, Liskeard, Cornwall.

G.635 **Lipmann, F. A.** 1966-1987

Includes correspondence *re* Lipmann's influence on Mitchell.

G.636 **Liskeard School, Cornwall** 1983

G.637 **Littarru, G. P.** 1991

Correspondence etc. *re* Mitchell's contribution to a book about Coenzyme Q, compiled by Littarru. Includes copy of Mitchell's answers to three questions by Littarru, 2pp typescript.

G.638 **Loach, P. A.** 1980-1981

Correspondence *re* manuscript by Loach concerning coupled electron and proton transport.

G.639 **Loewenstein, W. R.** 1968-1971

Includes invitation to join the editorial board of a new journal devoted to membrane biology (declined), 1968.

Logan, R. 1966

G.640, G.641 **Lombardi, F. J.** 1979, 1981, 1985

G.640 1979. Correspondence *re* manuscript sent to Mitchell by Lombardi for comment.

G.641 1981, 1985.

Correspondence

G.642	**Longmuir, I. S.**	1966
	Lopez, G. M.	1985
	Lorente, J. L.	1972
	Lorian, V.	1970
	Losada, M.	1987
G.643	**Lowe, A.**	1984
	Lowe, C.	1979-1981
	Lowe, P.	1979-1980
G.644, G.645	**Lowenhaupt, B.**	1963-1982
G.644	1963, 1967. Correspondence *re* the question of whether ion transport is electrogenic, 1963; correspondence *re* manuscripts sent to Mitchell by Lowenhaupt for comment, 1967.	
G.645	1977, 1982. Correspondence *re* manuscripts sent to Mitchell by Lowenhaupt for comment.	
G.646	**Lowenstein, J. M.**	1968
	Correspondence *re* Lowenstein's experimental observations about the effect of hydrogen ions on the control of respiration and their implications for the chemiosmotic hypothesis.	
	Lowenthal, J.	1978
	Lucy, J. A.	1961

Correspondence

G.647 **Luft, R.** 1978-1979

Correspondence *re* Luft's Disease.

Lumb, M. 1964

G.648 **Lumkin, P. A.** 1987, 1994

Correspondence etc. *re* fund-raising, including list of comments and recommendations by Lumkin, 4pp typescript, 1987.

G.649 **Lumry, R.** 1974, 1978

Includes correspondence *re* the conformational mobility of catalytic proteins, 1974; correspondence *re* Mitchell's Nobel Prize and the nature of popular acclaim.

Lundegårdh, H. 1961

MacArthur, I. 1966

G.650, G.651 **McCarty, R. E.** 1976-1979, 1990

G.650 1976-1979. Includes correspondence *re* McCarty's work.

G.651 1977, 1990. Recommendations.

G.652 **McClare, C. W. F.** 1976

McCollester, D. L. 1961

MacDonald, J. C. 1965

Correspondence

G.653, G.654	**MacDonald, R. E.**	1966, 1979-1980
G.653	1966, 1979-1980.	
G.654	1980. Recommendation.	
G.655	**McGivan, J. D.**	1968
	Correspondence *re* cation permeability in lecithin/cardiolipin membranes.	
	McIlwain, H.	1961, 1971
	McLaren, A. D.	1963
G.656, G.657	**McLaughlin, S.**	1977-1982
G.656	1977-1982. Includes correspondence *re* the Hanstein-Hatefi picrate work and the chemiosmotic hypothesis, 1977.	
G.657	1980. Recommendation.	
G.658	**McLean, R. A.**	1965-1966
	MacLennan, D. H.	1981
	McMeeking, R. M.	1982
	Correspondence *re* science and ethics.	
	McQuillen, K.	1962

Correspondence

G.659 **Maddy, A. H.** 1966-1979

Includes correspondence *re* nominations for the Committee of the proposed Membrane Group of the Biochemical Society, 1973.

G.660 **Madeira, V. M. C.** 1979

Includes correspondence *re* manuscript by Madeira sent to Mitchell for comment.

G.661 **Maizels, M.** 1960-1962

Majumder, S.N. 1978-1979

G.662 **Makinose, M.** 1973

Correspondence *re* Ca^{2+} translocation during acetyl phosphate hydrolysis.

Mallory, C. 1962

Correspondence *re* Mitchell's work on autolytic release and osmotic properties of 'protoplasts' from *Staphylococcus aureus*.

Malm, T. M. 1971

G.663 **Malmström, B. G.** 1985-1987

Includes correspondence *re* a Commentary by Malmström in *FEBS Lett.* relating to Mitchell's work, 1987.

G.664-G.668 **Maloney, P.C.** 1974-1990

G.664 1974-1977. Includes correspondence *re* Maloney's work, the chemiosmotic hypothesis and the disagreements concerning stoichiometries, 1976-1977.

G.665 1975-1976, 1979-1980. Editorial refereeing.

Correspondence

G.666 1978-1980. Includes correspondence *re* Maloney's work on *S. lactis* and *re* the measurement of stoichiometries.

G.667 1983-1990. Includes correspondence *re* the measurement of stoichiometries, 1983; letter commenting on Maloney's work *re* the 12 helix pattern, 1990.

G.668 1987. Recommendation.

G.669 **Malpress, F. H.** 1973, 1978-1979

Refereeing grant application, 1973; editorial refereeing, 1978-1979.

G.670 **Malviya, A. N.** 1979-1987

Includes correspondence *re* Mitchell's work on $\leftarrow H^+/2e^-$ and $\rightarrow e^-/2e^-$ measurements and *re* the use of digitonin, 1979-1980.

G.671 **Mann, C. & T. R. R.** 1978-1979, 1988

Mann, W. E. 1979

Manning, A. 1988

G.672 **Mantra** 1985-1986

Marchetti, C. 1975-1976

Correspondence *re* the artificial application of natural oxidative and photosynthetic phosphorylation systems, with reference to energy resources.

Maresca, J. S. 1982

Marfey, P. 1975

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Correspondence

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Margenau, H. 1988

G.673 **Margoliash, E.** 1978-1985

Correspondence *re* Mitchell's proposal of a mechanism to account for excess O_2 utilised by the ferrocyanide - cytochrome *c* - cytochrome oxidase system in an intact mitochondrion, 1984; correspondence *re* the behaviour of cytochrome *c*, 1984-1985.

G.674 **Marin, B.** 1975-1977

Markham, J. J. 1981

Marks & Spencer plc 1988

Correspondence *re* financial assistance for the purchase of furnishings for the accommodation of research visitors to the Glynn Research Institute.

G.675, G.676 **Marquis, R. E.** 1960-1979

G.675 1960-1963, 1966, 1978-1979. Includes refereeing grant application, 1966.

G.676 1970. Recommendation.

G.677 **Marshall, R.** 1981-1982

Correspondence *re* money as a commodity and other economic matters.

Marshall, V. M. 1979

G.678, G.679 **Martirosov, S. M.** 1974-1982

G.678 1974. Editorial refereeing.

.../

Correspondence

G.679 1976, 1977, 1982. Correspondence *re* Martirosov's work.

G.680 **Martonosi, A. N.** 1980-1982

Marullo, N. P. 1966

Mascall, B. 1982

Massini, P. 1964

Mate, F. 1962

G.681 **Matin, A.** 1982

Correspondence *re* Matin's work on ionic gradients in acidophilic bacteria.

G.682 **Mattock, G.** 1963

Maxwell, I. R. 1988

Correspondence etc. seeking financial support for the Glynn Research Foundation.

G.683 **Maynard, K.** 1983

Mayne, B. C. 1966-1967

Meadows, A. J. 1983

Invitation to Meadows to attend the Collaborative Consultation 'On Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', the Glynn Research Institute, 22-24 March 1983, to observe communication techniques in science.

See also B.99, B.101, F.149-F.154 for material *re* the Collaborative Consultation.

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Correspondence

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Mecklenburg, H. C. 1972

G.684 **Mehrishi, J. N.** 1972-1973

Meis, L. de 1976-1978

Meister, A. 1980

G.685 **Melandri, A.B. & B.A.** 1978-1981, 1990

Includes correspondence *re* Mitchell's suggested interpretations of B.A. Melandri's experimental work on chromatophores, 1978.

G.686 **Melzack, D.** 1973

Request by Melzack for details of the preparation of sonic vesicles from rat liver mitochondria provided by Mitchell.

Mengel, K. 1968

Ment, J. De 1974

G.687 **Messer-Bennetts, J.** 1988

Correspondence *re* fund-raising.

Mihram, G. A. 1980

Miklos, G. 1973

G.688, G.689 **Mildvan, A. S.** 1974, 1985-1987

G.688 1974, 1985. Includes correspondence *re* Mildvan's work on the mechanism of the (Na^+, K^+)-activated ATPase, 1974.

Correspondence

G.689 1986-1987. Correspondence *re* the mechanism of action of the F_0F_1 ATPases, including copy of 4pp typescript by Mitchell 'A (Partial!) Toolkit for Reinventing the F_0F_1 ATP Synthase', dated 22 December 1986; invitation to Mitchell to give the Christian A. Herter Lecture at Johns Hopkins University, April-May 1987 (declined); etc.

G.690 **Miller, M. H.** 1977

Letter *re* J.H. Quastel.

G.691-G.695 **Mills, J. D.** 1983-1990

Mills worked as Senior Research Fellow at the Glynn Research Institute, 1978-1983.

G.691 1983.

G.692 1983. Recommendation.

G.693 1984-1985. Includes correspondence *re* the ternary state mechanism of F_0F_1 ATPases, P. Boyer's work and the activation/deactivation mechanism of the chloroplast ATPase, 1984.

G.694 1987, 1989-1990.

G.695 1987. Application for travel grant.

G.696 **Mirsky, R.** 1967

Mitchell, G. W. 1978

Correspondence *re* Mitchell's Nobel Prize and the importance of Wimpey and Co. in establishing Glynn Research Limited.

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Correspondence

/...

Mitchell, P. 1979

Correspondence *re* the role of lecture tours in fund-raising.

Mitchell, R. 1974-1975

G.697 **Mitchell, R. A.** 1970, 1979, 1984-1985

Includes correspondence *re* P.D. Mitchell's and P. Boyer's models of the ATPase mechanism, 1984.

G.698 **Mitchison, J. M.** 1967-1983

Møller, K. M. 1979

Molotkovsky, Y. G. 1972

Monks, S. 1979

G.699, G.700 **Montal, M.** 1971, 1985-1991

G.699 1971. Refereeing grant application.

G.700 1985-1986, 1990-1991. Includes correspondence and photographs *re* the structure of OSCP or δ subunit of F_0F_1 ATPases, 1990-1991.

G.701 **Moody, J.** 1983

Correspondence *re* Moody's appointment as Postdoctoral Research Fellow at the Glynn Research Institute.

G.702 **Moore, A. L.** 1976

Correspondence

G.703-G.706 **Morales, M. F.** 1968, 1987-1992

Morales was based at the Cardiovascular Research Institute, University of California, San Francisco. In 1989-1990 he sought to help Mitchell in obtaining Japanese financial support for the Glynn Research Foundation.

G.703 1968, 1987. Includes invitation to lecture at 13th National Meeting of the U.S. Biophysical Society (declined), 1968.

G.704 1989 January-November. Includes photographs *re* Morales's visit to Glynn, 10-11 March; correspondence *re* obtaining financial assistance for the Glynn Research Foundation.

G.705 1989 December. Copy of letter to Morales *re* fund-raising, with accompanying enclosures relating to the Glynn Research Foundation.

G.706 1990-1992. Includes correspondence *re* fund-raising and the Glynn Silver Jubilee Meeting, 11-12 October 1990.

G.707 **Morgan, M. J.** 1988

G.708, G.709 **Morowitz, H. J.** 1976-1977, 1980

G.708 1976-1977. Correspondence *re* Morowitz's attempts to incorporate the ideas of proton semiconductors into Mitchell's model of oxidative phosphorylation, 1976 and *re* arrangements for Morowitz's visit to Glynn, 24-25 October 1976.

G.709 1980. Correspondence *re* Morowitz's work on the recent history of bioenergetics and Mitchell's correspondence with R.J.P. Williams.

G.710 **Morowitz, L.** 1978-1979

Correspondence

G.711, G.712 **Morris, J. G.** 1978-1979, 1983

G.711 1978-1979. Includes correspondence *re* Morris's ATPase work; 1p Mitchell's manuscript notes.

G.712 1983. Recommendation.

G.713 **Morse, C. J.** 1982

Sir Jeremy Morse was Chairman of Lloyds Bank and Chairman of the Committee of London Clearing Bankers. His article in *The Times* on 23 December 1981, 'Don't blame the banks', prompted Mitchell to respond through an open letter to him. Initially intended for publication this letter was circulated privately by Mitchell.

Correspondence *re* economic matters, in particular inflation, indexation and interest rates. Includes copy of open letter to Morse, 'Everyman's Money in Banker's Currency', 2pp typescript, 1 January 1982; list of recepients of the open letter, May 1982.

See also D.328, D.329.

G.714 **Moss, D. A.** 1987-1988

Recommendations.

G.715 **Moudrianakis, E. N.** 1975

G.716-G.721 **Moyle, J. M.** 1984-1991

Jennifer Moyle joined Mitchell as his assistant at Cambridge in 1948 and remained his research associate until her retirement in 1983, apart from a short period 1952-1955 when she was an assistant to Malcolm Dixon. Moyle joined Mitchell at the University of Edinburgh when he moved there in 1955 and in 1964 she co-founded the Glynn Research Institute with him. Following her retirement Moyle remained a member of the Glynn Research Foundation's Council of Management.

G.716 1984. Includes correspondence *re* activities at the Glynn Research Institute; letter from Moyle *re* the RLM F_0F_1 ATPase, 4pp manuscript, 25 April 1984.

Correspondence

G.717 1985. Includes correspondence *re* M.K.F. Wikström's work on C^{2+} oxidation; correspondence *re* Mitchell's ideas about cytochrome oxidase, including copies of Mitchell's manuscript notes relating to the O cycle; correspondence *re* amendments to the Glynn Research Foundation's Articles of Association.

G.718 1986-1988. Includes correspondence *re* administrative matters relating to the Glynn Research Foundation.

G.719 1989 March-October. Includes correspondence *re* administrative matters relating to the Glynn Research Foundation; correspondence and Moyle's manuscript notes *re* the effects of viscosity of medium on ATPase activity.

G.720 1989 December.

G.721 1990-1991. Includes correspondence *re* M. Saier's work on a biography of Mitchell and administrative matters relating to the Glynn Research Foundation.

G.722 **Mueller, P.** 1968

Mukerjee, P. 1968

G.723-G.726 **Mulkay, M.** 1977-1988

Mulkay worked in the Department of Sociology, University of York.

G.723 1977-1979. Correspondence *re* Mulkay's work on the development of research on oxidative phosphorylation; correspondence *re* arrangements for Mulkay's visit to Glynn to interview Mitchell, 1 November 1979.

G.724 1982-1983. Invitation to Mulkay to attend the Collaborative Consultation 'On Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', Glynn Research Institute, 22-24 March 1983, as an observer; 17pp typescript letter by Mulkay (with Mitchell's reply), *re* a possible collaboration in studying how scientists communicate over technical matters, with particular reference to the letters between Mitchell and Lehninger concerning stoichiometries; etc.

Correspondence

G.725 1984. Includes correspondence *re* scientific debate and communication.

G.726 1985-1988. Includes copy of letter *re* Mitchell's recognition that he was wrong about the proton translocating function of cytochrome oxidase, 3 September 1985.

G.727 **Müller, U.** 1982-1983

Mullins, L. J. 1982

Munirathnam, C. K. 1972

Murakami, S. 1967-1971

G.728 **Murray, L.** 1989

Murray was Director of the Winnicott Research Unit, Cambridge.

Grant application.

See also E.165-E.171.

G.729 **Murray, R. G. E.** 1962

Myddelton, D. R. 1982

Letter from Mitchell *re* economics, in particular indexation, 19 March.

G.730 **Nagiyev, T. M.** 1988-1989

G.731 **Nagle, J. F.** 1983-1988

Includes correspondence *re* the terms 'localised chemiosmotic coupling' and 'chemiosmotic hypothesis', 1985.

Correspondence

G.732 **Nakao, M.** 1979-1991

Includes photographs, 1988.

Natuur en Techniek 1981

G.733 **Chris Neal Design** 1988-1989

Papers *re* photographs of Glynn, taken for use in a brochure, 'Investment in Cornwall'. Includes copy of brochure.

Neifakh, S. A. 1966

G.734, G.735 **Nelsen, M. O.** 1978-1979, 1988-1989

G.734 1978-1979, 1988-1989.

G.735 *ca.* 1978. Draft of 'The Biopolitical Nation' by Nelsen, sent to Mitchell for comment.

G.736 **Nelson, D. L.** 1968

Neuberger, A. 1970-1979

Includes correspondence *re* an unsuccessful grant application by Mitchell to the Medical Research Council, 1970-1971.

Neumann, J. 1966

Correspondence

G.737 **Neville, A. M.** 1989

Correspondence etc. seeking financial support from the Ludwig Institute for Cancer Research.

Newell, R. C. 1967

Correspondence *re* mitochondrial metabolism

Newman, M. 1982

G.738 **Newmark, P.** 1989

Correspondence *re* the word 'chemiosmosis'.

New Scientist 1981

Newton, J. W. 1961

G.739, G.740 **Nicholls, D. G.** 1977-1989

G.739 1977, 1986, 1989. Editorial refereeing. 1984. Refereeing grant application.

G.740 1983, 1989. Recommendations.

G.741-G.746 **Nicholls, P.** 1969-1992

G.741 1969-1972.

G.742 1973-1975.

G.743 1976-1977. Mostly correspondence *re* direct and indirect mechanisms in cytochrome oxidase, including manuscript diagrams by Mitchell.

Correspondence

G.744 1978-1983. Includes 3pp typescript copy of letter from Nicholls to G. Proteau listing points arising from Nicholls's visit to Glynn, 9-13 March 1982; correspondence *re* arrangements for Nicholls's involvement in the Collaborative Consultation 'On Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', the Glynn Research Institute, 22-24 March 1983.

See B.99, B.101 for material *re* the Collaborative Consultation.

G.745 1979. Recommendations.

G.746 1985-1992. Includes correspondence *re* the hydroxidemotive redox loop mechanism, 1987.

G.747 **Nichols, W. W.** 1978-1979, 1984

Nichols, W. 1979

Nimmo, I. A. 1962, 1967

Nixon, A. S. 1979

Nobel, P. S. 1966-1967

G.748 **Noble, T.** 1985

Nojima, S. 1985

Northcote, D. H. 1963-1967, 1976

G.749 **O'Dowd, M. C.** 1980-1982, 1984, 1990

Includes correspondence *re* economic issues, 1981; correspondence *re* financial support for the Glynn Research Institute from Anglo American Corporation of South Africa.

Correspondence

G.750 **Oesterhelt, D.** 1978, 1985

G.751 **Ogston, A. G.** 1961-1962

Mostly correspondence *re* an invitation to Mitchell to join the John Curtin School of Medical Research, Australian National University, Canberra including 14pp draft manuscript letter by Mitchell concerning the advantages and disadvantages of taking the post.

G.752 **Ohkuma, S.** 1984-1985

G.753, G.754 **Ohnishi, Tomoko** 1966-1981

G.753 1966-1981.

G.754 1978, 1981. Refereeing grant application.

G.755 **Ohnishi, Tsuyoshi** 1966-1967

Correspondence *re* proposed translation of Mitchell's book *Chemiosmotic Coupling in Oxidative and Photosynthetic Phosphorylation*, (*Bibliog.* M1966b) into Japanese. Includes brief personal history of Mitchell, 1p typescript.

G.756 **Okamoto, M.** 1984

Old Queenians' Association 1979

Oliveberg, M. 1992

Ordal, G. W. 1975

Correspondence

G.757, G.758	**Orii, Y**	1978-1991
G.757	1978-1979, 1985-1991. Includes correspondence *re* cytochrome oxidase, 1985-1986.	
G.758	1989. Recommendation.	
G.759-G.765	**O'Shea, P. S.**	1980-1985
G.759	1980-1981.	
G.760	1982. Includes correspondence *re* M.K.F. Wikström's work concerning cytochrome *c*.	
G.761	1983. Includes correspondence *re* O'Shea's work on cytochrome oxidase systems.	
G.762-G.764	1983. Drafts by O'Shea annotated with Mitchell's comments.	
G.762	'The relationship between the rate of respiration and the protonmotive force: the role of proton conductivity' by O'Shea and J.B. Chappell, 29pp typescript. Includes Mitchell's annotation 'See O'Shea letter 7 July 1983' on the front.	
G.763	'Is the chemiosmotic hypothesis a satisfactory description of biological protonmotive systems?' by O'Shea, 32pp typescript. Includes Mitchell's annotation 'See O'Shea letter 18/9/83' on the front.	
G.764	'The current-voltage relationships of liposomes and mitochondria' by O'Shea *et al*, 16pp typescript. Includes Mitchell's annotation 'See O'Shea letter 18/9/83' on the front.	
G.765	1984-1985. Includes correspondence *re* the preparation of cytochrome oxidase vesicles, 1984.	

Correspondence

G.766	**Osselton, M. D.**	1973-1974
	Correspondence *re* Osselton's possible appointment to work at Glynn.	
G.767	**Ovchinnikov, Y. A.**	1985
	Overath, P.	1986-1987
G.768	**Ozawa, T.**	1983-1985
G.769	**Pace, W. E.**	1980
	Packard, T. T.	1979
G.770, G.771	**Packer, L.**	1961-1979
G.770	1961-1979. Includes correspondence *re* the existence of an osmotically effective membrane around sub-mitochondrial particles to catalyse oxidative phosphorylation; correspondence *re* the chemiosmotic hypothesis.	
G.771	1978-1979. Recommendation.	
G.772	**Packham, N.**	1988-1989
	Padan, E.	1992
	Palade, G. E.	1962, 1968

Correspondence

G.773	**Pall Europe Limited**	1988
	Palmer, G. P.	1983
	Palmer, J. M.	1966, *ca.* 1978
G.774, G.775	**Palmieri, F.**	1969-1981
G.774	1969-1972, 1978-1981. Includes correspondence *re* Palmieri's visit to Glynn, 9-20 February 1970.	
G.775	1975. Recommendation.	
G.776	**Pande, A. K.**	1982
	Pandit-Hovenkamp, H. G.	1966
	Pantin, C. F. A.	1961
G.777-G.783	**Papa, S.**	1970-1986
G.777	1970-1975.	
G.778	1972-1975. Editorial refereeing.	
G.779	1976-1977. Includes correspondence *re* cytochrome oxidase and $\rightarrow H^+/2e^-$ stoichiometries.	

Correspondence

G.780 1978. Includes correspondence *re* stoichiometries and proton transfer reactions in cytochrome oxidase.

G.781 1979-1981.

G.782 1980. Recommendation.

G.783 1982-1986. Correspondence *re* cytochrome *c* oxidase; correspondence *re* Papa's involvement at the Collaborative Consultation 'On Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', Glynn Research Institute, 22-24 March 1983.

See also B.99, B.101 for material *re* the Collaborative Consultation.

G.784 **Parker, R. H.** 1961

Pasternak, C. A. 1983-1990

Paul, J. 1961, 1964

G.785 **Pauling, L. C.** 1970, 1980

Includes letter from Pauling *re* energy-rich chemical intermediates and the use of the word 'proticity', with Mitchell's reply, 1980.

G.786 **Paulson, D** 1983

Pearce, J. 1975

Péchon, J. 1982

Correspondence

G.787-G.793 **Pedersen, P. L.** 1970-1989

G.787 1970-1975.

G.788 1976-1981. Includes correspondence *re* rate changes in the hydrolysis of ATP by the protonmotive ATPase, 1976-1977; correspondence *re* rates of ATP synthesis and hydrolysis in F_0F_1 and F_1, 1979.

G.789 1978. Refereeing grant application.

G.790 1982-1983. Includes correspondence *re* ATPase mechanisms, 1982; invitation to participate at the Gordon Research Conference on 'Energy Coupling Mechanisms', New Hampshire, 15-19 August 1983 (declined); correspondence *re* the state of the chemiosmotic hypothesis, 1982-1983.

G.791 1982. Papers *re* a request for Mitchell to second a conference proposal.

G.792 1985-1986. Invitation for Mitchell to give the concluding lecture at a meeting of 'The Mitochondrion', in honour of A.L. Lehninger, 5-7 June 1986 (declined).

G.793 1987-1989. Includes correspondence *re* rotational models for catalysis in F_1 and Mitchell's cyclic ternary state mechanism, 1987.

G.794 **Peisach, J.** 1987

Penefsky, H.S. 1975

G.795 **Penttilä, T.** 1982-1983

Correspondence *re* the proton pump of cytochrome *c* oxidase.

Correspondence

G.796 **Penzias, A. A.** 1979

Per Holst Filmproduktion 1988

Perkin-Elmer Ltd. 1978-1981

Correspondence and notes *re* the purchase of a spectrophotometer.

G.797 **Perry, S. V.** 1969, 1978-1979

Perutz, M. F. 1979, 1986, 1989

Includes invitation for Mitchell to give a plenary lecture at a meeting in memory of D. Keilin, Virginia, 14-17 April 1980 (declined).

G.798 **Perutz, R.** 1986-1987

Correspondence *re* a search for evidence of catalysis of O_2 reduction by H_2O_2 and *re* draft paper by Mitchell concerning the hydroxidemotive redox loop idea.

G.799 **Person, P.** 1965

Peschek, G. A. 1984, 1987

Correspondence *re* Peschek's paper on proton pumping during oxidation of ferrocytochrome *c* by *Anacistis nidulans* and *re* the issue of whether cytochrome *c* oxidase is a proton pump.

G.800, G.801 **Peters, R. A.** 1960-1968

G.800 1960-1961. Includes 2pp manuscript letter by Peters, 10 January 1961, commenting on a manuscript by Mitchell [?'Approaches to the analysis of specific membrane transport', *Bibliog.* M1961e, see also D.3].

Correspondence

G.801 1962-1968. Includes correspondence *re* Peters' work on how blocking agents for the Krebs cycle act as convulsants, 1962; correspondence *re* Mitchell's use of terms like 'vectorial' and 'anisotropic', 1962-1963; correspondence *re* the dependence of pH on the local electrical potential, 1967.

G.802 **Pethica, B. A.** 1966-1970

G.803, G.804 **Pezzi, L.** 1979

G.803 Correspondence *re* Pezzi's visit to the Glynn Research Institute for two months from 1 October 1979.

See also G.287.

G.804 Copy of grant application by Pezzi.

G.805 **Phelps, H.** 1981

Phillips, D. C. 1982, 1990

Piccinini, F. 1968

G.806 **Pick, J. M.** 1978, 1981, 1986, 1989

G.807, G.808 **Pick, U.** 1976, 1984-1985

G.807 1976. Editorial refereeing.

G.808 1984-1985. Request for recommendation.

Correspondence

G.809 **Pisnoy, L. A.** 1977

Pixley, C. C. 1990

Correspondence *re* the possibility of the Glynn Research Foundation applying for funds from the National Foundation for Cancer Research, USA.

Plaut, G. W. E. 1973

Correspondence *re* NAD-linked isocitrate dehydrogenase activity in mitochondria.

G.810 **Plymouth Motor Club** 1971

Pollak, J. K. 1975

Pollock, M. R. 1960, 1964, 1978-1979

Pomeroy, G. 1990

Poon, C. P. C. 1978-1979

Correspondence *re* the possible uses of proton-conducting uncouplers in bacterial detoxication of effluents.

G.811 **Popper, K. R.** 1982, 1988-1991

Correspondence mentioning Popper's influence on Mitchell; correspondence *re* Wachtershäuser's ideas about the origin of life, 1989; etc.

G.812, G.813 **Porteous, J. W.** 1972-1990

G.812 1972-1973, 1978-1979. Includes correspondence *re* the value of thermodynamic methods of thought and analysis of biochemical systems, 1972.

G.813 1984-1985, 1990. Includes correspondence *re* the traditional treatment of energetics in biochemistry textbooks, 1984-1985.

Correspondence

G.814, G.815 **Porter, G., Baron** 1979-1990

G.814 1978-1983. Includes invitation for Mitchell to give a Friday Evening Discourse at the Royal Institution, Autumn 1979 (declined); correspondence *re* a research proposal of Mitchell's, 1983.

G.815 1987-1990. Invitation to Porter to become a Patron of the Glynn Research Foundation (accepted) and related correspondence; correspondence *re* arrangements for the 1990 AGM.

G.816 **Postgate, J. R.** 1988

Nomination.

G.817 **Potapova, T.V.** 1990

Prabhakaram, M. 1982

Prebble, J. N. 1981, 1990-1992

Includes correspondence *re* Prebble's work on an historical study of the evolution of the chemiosmotic hypothesis, 1990-1992.

G.818 **Prescott, L. M.** 1983

Pressman, B. C. 1967-1972

Prideaux-Brune, H. 1991

Includes two postcards of Glynn House, possibly *ca.* 1920s.

G.819 **Prigogine, I.** 1983-1984

Prince, R. C. 1987

Pring, P. 1990

Correspondence

G.820 **Pullman, M. E.** 1967

Correspondence *re* the description of the historical development of the chemiosmotic hypothesis by Pullman and J. Schatz in a review on 'Mitochondrial Oxidations and Energy Coupling' for the *Annual Review of Biochemistry*.

G.821 **Putnam, E.** 1980

G.822 **Quagliariello, E.** 1965-1979

Includes invitation to take part in the Round Table Discussion on Mitochondrial Structure and Compartmentation, Bari, Italy, 23-25 May 1966 (accepted); brief correspondence *re* the effects of nigericin and of proton conducting uncouplers on the accumulation of anionic substrates, 1968.

G.823, G.824 **Quastel, J. H.** 1964, 1978-1983

G.823 1964, 1978-1981. Includes correspondence *re* Quastel's work and influence.

G.824 1983. Nomination.

G.825-G.827 **Quinn, P. J.** 1982-1983, 1988-1990

G.825 1982-1983. Includes correspondence *re* the mechanism of action of ubiquinone-10, 1983.

G.826 1988. Request for recommendation.

G.827 1989-1990. Correspondence *re* the problem of the configuration and distribution of Q molecules in the hydrocarbon domains of bilayers.

Correspondence

G.828 **Rabinowitch, E.** 1962

G.829-G.842 **Racker, E.** 1965-1991

Efraim Racker worked on biochemical mechanisms and was a leading figure in the field of bioenergetics.

G.829 1965. Includes correspondence *re* theoretically favourable conditions for obtaining ATP synthesis by means of a pH shift.

G.830 1966. Includes correspondence *re* Mitchell's refereeing of a paper by B. Chance and L. Mela, 'Intramitochondrial pH Changes'.

G.831 1966. Recommendation.

G.832 1967-1968. Includes correspondence *re* Racker's work on calcium uptake in mitochondrial particles and *re* Mitchell's work on the localisation of BTB in rat liver mitochondria.

G.833 1970.

G.834 1972-1973. Correspondence *re* a possible contribution by Mitchell to a book organised by Racker on 'Energy Transducing Membranes' (Mitchell withdrew owing to ill-health).

G.835 1974 January-May. Correspondence *re* proposals by Racker to resolve the problem of the bioenergetics field's unfavourable image. Includes 2pp typescript 'Statement' by Racker on the state of knowledge about oxidative phosphorylation designed to 'improve the quality of dialogue' in this area (Mitchell declined to sign).

Correspondence

G.836 1974 June-December. Includes 4pp typescript letter by Mitchell *re* the fundamental differences between the direct interaction and chemiosmotic types of hypothesis, 13 June; correspondence *re* arrangements for Mitchell to visit and give a seminar at Cornell University, USA, 24-28 October.

G.837 1975 January-February. Includes correspondence *re* the role of chemical intermediates in the chemiosmotic hypothesis, *re* conformational interactions and *re* the role of the membrane potential in the O^{2-} -group translocation mechanism.

G.838 1975 March-April. Includes correspondence *re* the various hypothetical mechanisms of oxidative phosphorylation and related energy transductions.

G.839 1975 May-December. Includes correspondence *re* the inhibition of ATPases by bathophenanthroline and *re* Mitchell's Q cycle.

G.840 1976-1980. Includes 3pp typescript letter by Mitchell *re* the Q cycle, 8 January 1976; correspondence relating to the joint review in *the Annual Review of Biochemistry* **46**, to which Mitchell, Racker and others contributed, 1976. See also D.102-D.108.

G.841 1980-1981. Recommendation.

G.842 1982, 1991.

G.843-G.847 **Ragan, C. I.** 1975-1987

G.843 1975-1979. Includes correspondence *re* high H^+/O ratios, 1978, and *re* the interaction of NADH dehydrogenase with cytochromes, 1979.

G.844 1979. Refereeing grant application.

G.845 1981-1983. Includes correspondence *re* the FeS centres of NADH dehydrogenase, 1983.

Correspondence

G.846 1984-1987. Includes correspondence *re* the phenomenon of ferricyanide *re*-reduction during ferrocyanide oxidation by whole mitochondria, 1984.

G.847 1985. Recommendation.

G.848 **Rama Prasad, J. S.** 1982

Ramel, S. 1984

G.849 **Randle, P. J.** 1966-1979

Includes correspondence *re* arrangements for Mitchell to lecture at a colloquium on 'Membranes and Metabolism' at the 474th Meeting of the Biochemical Society, Bristol, 21 September 1967.

G.850 **Rasmussen, H.** 1964-1965, 1977, 1984

Rassam, C. 1992

G.851 **Ratkje, S. K.** 1983

Raven, J. A. 1976

Read, G. 1989

Redfearn, E. R. 1966

G.852 **Reed, D. J.** 1979

Reeves, J. 1989

Correspondence

G.853-G.865 **Reid, R. A.** 1963-1984

Reid worked as a Research Assistant and then Assistant Lecturer in Zoology at the University of Edinburgh, 1960-1965. He then moved to the University of York where he held the post of Lecturer until 1983. The correspondence contains considerable personal as well as scientific material.

G.853 1963-1964. Includes abstract 'Aspects of pyruvate metabolism in L fibroblasts' by Reid and Mitchell; correspondence *re* Reid's thesis.

G.854 1965. Includes correspondence *re* support for the chemiosmotic hypothesis; correspondence *re* Reid's work, including his visit to E.C. Slater's laboratory.

G.855 1966. Includes correspondence *re* Reid's work; 3pp typescript letter by Mitchell *re* his own experimental work, 17 October.

G.856 1967. Correspondence *re* Reid's grant applications.

G.857 1968-1969.

G.858 1970, 1972. Includes 2pp typescript letter by Moyle *re* Mitchell's health etc., 27 November 1972.

G.859 1972. Refereeing grant application.

G.860 1973-1976. Includes correspondence *re* arrangements for a Biochemical Society Colloquium on 'The Relationship of Membrane ATPases to Transport Processes', University of York, 10 January 1974, see also F.52-F.54; correspondence *re* Reid and Mitchell's involvement in television programmes about oxidative phosphorylation, 1976, see also E.118, E.119.

G.861 1974. Travel grant application.

Correspondence

G.862 1977-1978. Includes letter by Reid *re* events at the Gordon Conference, 1977.

G.863 1980-1984. Includes correspondence *re* work on proton pumping by cytochrome oxidase, 1981-1982.

G.864 1983. Letter *re* an appointment at York.

G.865 1984. Typescript of proposed programme of research and grant application by Reid.

G.866 **Reiser, A.** 1990

Renger, G. 1982

G.867, G.868 **Repke, K. R. H.** 1975-1982, 1987-1989

G.867 1975-1982.

G.868 1987-1989. Includes correspondence *re* the interconversion of chemical and osmotic energy, 1987.

G.869-G.874 **Rich, P. R.** 1976-1991

Peter Rich left Cambridge in 1986, where he had established his own independent research group, to join the Glynn Research Institute as Principal Research Fellow. He became Director of Research in 1987 and in 1992 was appointed Honorary Director and Chairman of the Glynn Research Foundation.

G.869 1976. Editorial refereeing.

G.870 1980. Refereeing grant application.

Correspondence

G.871 1982-1986. Includes correspondence *re* the possibility of securing financial resources to enable Rich to work at the Glynn Research Institute, 1984.

G.872 1983. Recommendation.

G.873 1985. Papers *re* Rich's appointment as Principal Research Fellow at the Glynn Research Institute.

G.874 1990-1992.

G.875, G.876 **Richarme, G.** 1983

G.875 Correspondence *re* Richarme's work on the binding protein-dependent transport systems of *E. coli*; manuscript by Richarme sent to Mitchell for comment.

G.876 Manuscript by Richarme sent to Mitchell for comment.

G.877 **Richford, V. E.** 1989

Richter, C. 1980, 1982

Rickenberg, H. V. 1962, 1964

G.878 **Ridger, J. A.** 1978-1979

Riemersma, J. C. 1963

Rienits, K. G. 1969

.../

Correspondence

/...

Rieske, J. S. 1975-1979, 1986-1987

Includes correspondence *re* the oxidant-induced reduction of cytochromes *b*, 1986-1987.

Rietveld, A. 1984

G.879 **Rinaldini, L. M.** 1985

Includes correspondence *re* Mitchell's machine for striking Glynn silver pieces. (Mitchell's interests included the minting of his own silver coins).

G.880 **Robb, A. J.** 1979

Robertis, E. De 1977

Roberts, E. 1966

G.881 **Roberts, H. R. W.** 1978

Roberts, S. M. 1987

Robertson, A. 1978-1979

G.882-G.886 **Robertson, R. N.** 1967-1980

G.882 1967-1974.

G.883, G.884 1975. Correspondence *re* Robertson's work on proton movement and phosphorylation, including manuscripts. 2 folders.

G.885 1976-1979. Includes correspondence *re* Robertson's work, 1976 and *re* Mitchell's ill-health, 1977.

Correspondence

G.886 1980. Editorial refereeing.

G.887 **Robinson, B. H.** 1968-1969

Includes correspondence *re* alkali metal ion antiporter systems, 1969.

Robinson, J. 1989

G.888, G.889 **Robinson, J. D.** 1984-1989

G.888 1984-1985. Includes photograph, 1984; correspondence *re* the flagellar motor system and proposed rotating mechanisms for the F_0F_1 ATPase, 1985.

G.889 1986-1989.

G.890 **Robinson, J. R.** 1962-1963

Rögner, M. 1984

Roodyn, D. B. 1966, 1978-1979

G.891-G.893 **Rosen, B.** 1973-1982

G.891 1973-1981.

G.892 1975, 1977. Refereeing grant applications.

G.893 1979, 1982. Recommendations.

Correspondence

G.894-G.896 **Ross, R. T.** 1977-1981

G.894 1977-1979.

G.895 1977. Recommendation.

G.896 1980-1981. Recommendation.

G.897 **Rossi, C. S.** 1968

Correspondence *re* Mitchell and Moyle's paper, 'Proton translocation coupled to ATP hydrolysis in rat liver mitochondria' *European J. Biochem.*, **4**, *Bibliog.* MM1968b.

Rossi, L. 1969

Roth, L. E. 1965

Rothen, A. 1979-1980

G.898 **Rothschild, N.M.V., 3rd Baron** 1960

Rothstein, A. 1963, 1978-1979

Röttig, E. 1969

Roux, E. 1961

Rowen, L. S. 1987

G.899 **Rumberg, B.** 1968, 1985, 1987, 1989

Correspondence

G.900 **Russell, J. C.** 1962

Rydbeck, K. 1978

G.901 **Rydström, J.** 1973-1976, 1980

Includes correspondence *re* the behaviour of ANS fluorescence or PCB uptake in response to transhydrogenase system activity, 1973.

Ryman, B. E. 1978-1979, 1982

G.902 **Ryrie, I.** 1974-1979

Correspondence *re* Ryrie's work.

G.903 **Saatchi & Saatchi** 1991

Correspondence etc. *re* fund-raising.

G.904-G.906 **Sachs, G.** 1972, 1979-1983

G.904 1972. Refereeing grant application.

G.905 1979-1982.

G.906 1979-1980, 1982, 1983. Recommendations.

G.907 **Sacktor, B.** 1976

Sagan, C. E. 1985

Saha, S. P. 1983

Correspondence

G.908 **Sahlin, K.** 1977-1978

Correspondence *re* Sahlin's work on changes of intracellular pH and high energy phosphates during exercise; manuscript by Sahlin *et al.*

G.909 **Saier, M. H.** 1982-1985, 1989-1991

G.910 **Sainsbury, J.** 1991-1992

Sakamoto, J. 1984

Salminen, S. 1968

Salton, M. R. J. 1973, 1978-1979

G.911 **Samoray, D.** 1974, 1989

Samuel, C. 1986

G.912-G.914 **Sanadi, D. R.** 1965-1984

G.912 1965-1968.

G.913 1972-1974, 1978-1979, 1984. Includes copy of letter by Sanadi to E. Racker *re* the declining support for research on oxidative phosphorylation, 20 March 1974.

G.914 1984. Editorial refereeing.

G.915 **Sanchez, H.** 1979-1980, 1984, 1990

Includes correspondence *re* the use of statistical mechanics and quantum theory in biochemical systems, 1984.

Correspondence

G.916 **Sanders, D.** 1986

Application for travel grant etc.

G.917 **Sanger, F.** 1980, 1983, 1987-1989

Includes invitation to Sanger to become a Patron of the Glynn Research Foundation (accepted) and related correspondence.

G.918 **San Pietro, A.** 1970-1972

Includes invitation to attend Bioenergetics Symposium, Indiana University, USA, 12-15 October 1970 (initially accepted, later withdrew).

G.919 **Santhanam, K. S. V.** 1988-1990

G.920 **Santiago, E.** 1978-1979

Correspondence *re* Santiago's work on oxidative phosphorylation.

G.921 **Saraste, M.** 1987, 1991

Includes correspondence relating to Mitchell's submission of a paper 'Cu_B loop mechanisms for cytochrome oxidase using a hydroxide or oxide e^-/H^+ antiport gate' to *FEBS Letters*, 1987.

G.922 **Sardesai, P. V.** 1981

Saris, N.-E. 1978-1979

G.923-G.925 **Scarborough, G. A.** 1981-1986

G.923 1981. Includes correspondence *re* Scarborough's work on the mechanism of the cationmotive ATPases.

Correspondence

G.924 1981. Recommendation.

G.925 1982-1986. Includes correspondence *re* Scarborough's work on the mechanism of the F_0F_1 ATPases, 1985-1986.

G.926 **Scarpa, A.** 1975, 1978-1979, 1983

G.927 **Schacherl, R.** 1979

Includes correspondence *re* Schacherl's work on S-N bond formation and *re* Mitchell's experiments involving the oxidation of diaminodurene.

G.928, G.929 **Schäfer, G.** 1970, 1976-1985

G.928 1970, 1976-1980. Includes correspondence *re* Schäfer's work on the properties of new uncoupling agents, 1970.

G.929 1984-1985. Includes correspondence *re* F_0F_1 ATPases.

G.930 **Schatz, G.** 1970, 1978-1979

Includes 5pp typescript letter by Mitchell *re* cytochrome oxidase function.

Schejter, A. 1970-1971

Schiffrin, D. J. 1988

G.931 **Schlodder, E.** 1981

Recommendation.

Correspondence

G.932-G.935 **Scholes, P. B.** 1965-1971, 1978-1979

G.932 1965-1966. Correspondence *re* Scholes's application for a Research Fellowship to work at the Glynn Research Institute.

G.933 1967, 1969. Recommendations.

G.934 1970-1971. Recommendations.

G.935 1971, 1978-1979. Correspondence *re* drugs for Mitchell's ulcers, 1971, etc.

G.936 **Schultz, S. G.** *ca.* 1962-1967

Scott, W. J. 1978-1980

G.937 **Seale, J.** 1989-1990

Correspondence *re* Seale's work on the origin of AIDS; manuscripts by Seale.

G.938 **Secombe, H. D.** 1982-1983

Correspondence *re* application to Sir Harry Secombe for financial support.

Seiter, C. H. 1980

Correspondence *re* cytochrome oxidase.

Seitz, E. W. 1965

Correspondence

G.939-G.941	**Selwyn, M. J.**	1969-1981
G.939	1969-1981. Includes correspondence *re* a review article by Selwyn and A. Dawson, 1973.	
G.940	1973-1974. Recommendation.	
G.941	1975. Refereeing grant application. 1977. Editorial refereeing.	
G.942	**Semenov, A.**	1989-1991
G.943-G.946	**Semenza, G.**	1982-1987
G.943	1982. Correspondence *re* the 'Evolving Life Sciences' series, published by John Wiley and Sons Ltd.	
G.944	1983. Nomination.	
G.945	1983-1985.	
G.946	1987. Includes correspondence *re* a Commentary for *FEBS Lett.* by B.G. Malmström on Mitchell's paper, 'A new redox loop formality involving metal-catalysed hydroxide-ion translocation...', *Bibliog.* M1987f.	
G.947-G.950	**Senior, A. E.**	1974-1991
G.947	1974, 1983-1987.	
G.948	1979, 1981. Recommendations.	

Correspondence

G.949 1991 May.

G.950 1991 June-November. Correspondence *re* unisite catalysis.

G.951 **Seth Shewbhagwan Jalan Charity Trust** 1980

Settlemire, C. T. 1967

Shamoo, A. E. 1978-1980, 1987

Includes invitation to Mitchell to be the first speaker for the Steinberg and Wylie Endowed Lecture in Biological Chemistry, University of Maryland, 1980 (declined).

G.952 **Shandon Scientific Co. Ltd.** 1961

Shapiro, B. M. 1981

Shavit, N. 1967

Shell Research Ltd. 1974

G.953 **Shimazu, K.** 1988-1989

Shnol, S. 1989

Shubert, M. L. 1966

Shulman, R. G. 1981

Correspondence

G.954	**Sigel, E.**	1979, 1982-1983
	Sigmund, E.	1989
	Siliprandi, N.	1972, 1976-1979, 1985
G.955	**Silver, P.**	1987
	Silver, S. D.	1971
	Simmonds, H. A.	1971
G.956-G.958	**Simon, H. A.**	1979, 1986-1990
G.956	1979.	
G.957	1986-1988. Includes invitation for Simon to become a Patron of the Glynn Research Foundation (accepted) and related correspondence; correspondence *re* Mitchell's paper 'Aspects of Chemical Philosophy. Science as a Pursuit of Humanity', *Kagaku to Kogyo*, *42*. *Bibliog*. M1989b.	
G.958	1989-1990. Correspondence *re* arrangements for Simon's involvement at the 1990 AGM and Silver Jubilee Meeting, correspondence *re* the evolution of chemiosmotic ideas.	
G.959	**Simoni, R. D.**	1974
	Singer, B.	1970
	Correspondence *re* the use of nuclear power.	

Correspondence

G.960 **Sklar, S. H.** 1979

Correspondence *re* Sklar's work on adenosine 5'-monophosphate (AMP) therapy.

G.961 **Skoryna, S. C.** 1979-1983

G.962, G.963 **Skou, J. C.** 1978-1982

G.962 1978-1979, 1982.

G.963 1980. Nomination.

G.964 **Skrede, S.** 1967-1968

Correspondence *re* Skrede's work on the permeation of cystamine through the cristae membrane of mitochondria.

G.965-G.971 **Skulachev, V. P.** 1969-1991

G.965 1969-1972. Includes correspondence *re* proposals to publish Russian translations of papers by Mitchell, 1971-1972.

G.966 1970. Editorial refereeing.

G.967 1973-1975.

G.968 1976-1979. Includes correspondence *re* the function of F_1 and *re* the Q cycle, 1976; correspondence *re* the cytochrome oxidase proton pump concept, 1978.

G.969 1980-1987.

Correspondence

G.970 1988-1991. Includes 3pp typescript letter by Mitchell *re* the proton coupled ATP / (ADP + P_i) antiport mechanism, 11 April 1990.

G.971 1989. Correspondence etc. *re* Mitchell's sponsorship of a paper by Skulachev *et al.*

G.972-G.990 **Slater, E. C.** 1961-1988

Slater was Professor of Physiological Chemistry at the University of Amsterdam, 1955-1985 and then Honorary Professor of Biochemistry at the University of Southampton.

G.972-G.976 'Bill Slater - discussion and correspondence'. Contents of file so inscribed, divided into five for ease of reference. Includes letter of thanks by R.B. Beechey for the use of the file, 3 November 1992.

The contents mostly relate to the chemiosmotic hypothesis.

G.972 1961-1962. Includes 2pp Mitchell's manuscript notes headed 'Comments for Bill Slater'.

G.973 1964 April-May.

G.974 1964 June-December. Includes copy of Slater's manuscript *re* the chemiosmotic hypothesis.

G.975 1965. Includes correspondence *re* experimental work relating to the chemiosmotic hypothesis.

G.976 1966. Includes correspondence *re* Mitchell and Slater's experimental methods.

G.977 1964-1966.

G.978 1969.

Correspondence

G.979 1970, 1972. Includes correspondence *re* P/O quotients, 1970

G.980 1973. Includes correspondence *re* Slater's treatment of the chemiosmotic hypothesis in a copy of a manuscript on oxidative phosphorylation.

G.981 'Oxidative phosphorylation' by Slater, 41pp typescript.

G.982 1974 January-May. Includes correspondence *re* Mitchell's hypothesis; copy of 3pp typescript letter from Slater to E. Racker *re* the unfavourable image of the bioenergetics field, 16 April.

G.983 1974 June-November. Includes correspondence *re* the chemiosmotic hypothesis and *re* P. Boyer's conformational coupling hypothesis.

G.984 1975-1976. Includes correspondence *re* the Q cycle; correspondence *re* Mitchell and Slater's drafts for the joint review in the *Annual Review of Biochemistry*, **46**, to which they and others contributed, 1976. See also D.102-D.108.

G.985 1977-1978. Includes correspondence *re* cytochrome oxidase and protonic stoichiometries.

G.986 1979-1981. Includes correspondence *re* the Q cycle and cytochrome *c* reductase, 1980-1981.

G.987 1982-1986. Includes correspondence *re* the Q cycle and related matters; correspondence *re* Mitchell's plan to implement a new programme of research at the Glynn Research Institute, concerned with the fundamental stoichiometric facts and related knowledge of respiratory metabolism, 1982; correspondence *re* Mitchell's O loop and O cycle mechanisms, 1985-1986.

G.988 1983. Nomination.

Correspondence

G.989 1987. Nomination.

G.990 1987-1988. Includes correspondence *re* the distinction between direct and indirect chemiosmotic mechanisms, 1987; correspondence *re* Slater's collision hypothesis, 1987-1988.

G.991, G.992 **Slayman, C. L.** 1966, 1975-1982

G.991 1966, 1976-1982. Includes correspondence *re* variable stoichiometry in transport systems, 1981-1982.

G.992 1975-1976, 1982. Recommendations.

G.993 **Slaughter, J. B.** 1987

Slonimski, P. 1985

Letter seeking Mitchell's signature for an appeal against threats to academic freedom in Poland (provided).

Slooten, L. 1974, 1977

Includes correspondence *re* Mitchell's illness and *re* Slooten's work on the photoinactivation process in F_0F_1.

G.994 **Smith, D. C.** 1977

Smith, E. L. 1979-1980

Smith, J. E. 1966

Correspondence

G.995, G.996	**Smith, L.**	1966-1968, 1978-1979
G.995	1966-1967.	
G.996	1968, 1978-1979. Includes 3pp typescript letter by Mitchell *re* his experimental work, 7 March 1968; correspondence *re* a possible visit by P. Broberg to Glynn to participate in a project concerning mechanisms of respiratory control, 1968.	
G.997	**Snoswell, A. M.**	1966
	Correspondence *re* Snoswell's work relating to oxidative phosphorylation.	
G.998	**Society of Opticians - Aitchison Memorial Trust**	1977-1978
	Sollner, K.	1963, 1966
	Sone, N.	1984-1985
G.999-G.1002	**Sorgato, M. C.**	1978-1989
G.999	1978-1980.	
G.1000	1981, 1983. Correspondence *re* Sorgato's work.	
G.1001	1984-1989.	
G.1002	1985, 1988. Recommendations.	

Correspondence

G.1003	**Sowder, F. A.**	1981
	Spanswick, R. M.	1974,1978-1979
	Spiro, M.	1984
	Spivey, H. O.	1990
G.1004	**Sprinson, D. B.**	1969
	Recommendation.	
G.1005	**Srere, P. A.**	1983
	Stace, B. C.	1980
	Stansfield, R. G.	1986
G.1006-G.1010	**Stein, W. D.**	1958-1990
G.1006	1958-1959. Correspondence *re* Stein's paper on 'Transport mechanisms in Active Transport'.	
G.1007	1959. Correspondence *re* Stein's possible appointment at Edinburgh, including material *re* Mitchell's plans for his research group's rheumatism programme.	
G.1008	1966-1967. Includes correspondence *re* arrangements for Mitchell to lecture to the Biochemical Club, University of Manchester, 25 January 1967.	

Correspondence

G.1009 1969. Recommendation.

G.1010 1978-1979, 1985-1986, 1990. Includes correspondence *re* Mitchell's recollections of J.F. Danielli, 1985-1986.

G.1011 **Stephen,** 1961-1962

G.1012 **Stevens, S. J.** 1981, 1983

G.1013 **Stern, A.** 1983

G.1014, G.1015 **Stewart, W. W.** 1986-1988

G.1014 1986-1988. Correspondence *re* study by Stewart and N. Feder of scientists' professional practices.

G.1015 1986. 49pp typescript by Stewart and Feder etc.

G.1016 **Stoddard, J. F.** 1989

G.1017-G.1019 **Stoeckenius, W.** 1973-1978

G.1017 1973-1975. Correspondence *re* Stoeckenius's work on halobacteria, 1973, etc.

G.1018 1977-1978. Correspondence *re* Stoeckenius's model for the function of bacteriorhodopsin.

G.1019 *ca.* 1977. Manuscripts; 2pp Mitchell's manuscript drawings.

Correspondence

G.1020 **Stoppani, A. O. M.** 1962, 1978-1979

Stoward, P. J. 1961

Strominger, J. L. 1961-1962

Strotmann, H. 1989

Correspondence *re* models of the ATPase mechanism.

G.1021 **Strych, A.** 1974

Stuart, K. 1970

G.1022 **Sugden, T. M.** 1967, 1981-1984

Includes correspondence *re* arrangements for Mitchell's visit to Sugden's laboratory, Shell Research Ltd., Thornton Research Centre, Chester, 20-21 February 1967; correspondence *re* Sugden's assistance in fund-raising and the Glynn Research Institute's financial difficulties, 1981-1982.

G.1023 **Suzuki, Y.** 1992

Swallow, A. J. 1970

G. 1024-G.1030 **Swann, M. M., Baron** 1963-1964, 1982-1990

G.1024 1963-1964.

G.1025 1982. Correspondence *re* Swann's assistance in fund-raising for the Glynn Research Institute and its financial problems.

G.1026 1983. Correspondence *re* Mitchell's grant proposal to the Wellcome Trust.

Correspondence

G.1027 1984. Correspondence *re* the possible wound-healing effects of electric current or electromagnetic radiations.

G.1028 1987. Invitation to Swann to become a Patron of the Glynn Research Foundation (accepted).

G.1029 1988-1990. Includes correspondence *re* Swann's assistance in fund-raising and his role as a Patron of the Glynn Research Foundation; correspondence *re* personal matters.

G.1030 'Lord Michael Swann'. Contents of file so inscribed. Contains:

Papers *re* Swann's reference for the Glynn Research Institute as part of their fund-raising appeal to the Trustees of the John Spedan Lewis Foundation. Includes 3pp manuscript letter of reference by Swann for the Institute, 10 June 1982.

2pp typescript letter of reference by Lord Swann for the Glynn Research Foundation, 28 March 1988.

G.1031 **Sweetman, A. J.** 1971

Sykes, J. B. 1984-1985

Correspondence *re* Mitchell's distinction between the areas of meaning covered by 'osmotic' and 'osmosis' and *re* Mitchell's ideas about economics.

G.1032 **Sylvester, M.E.** 1979

Szabo, A. 1974

Szabo, G. *ca.* 1962-1963

G.1033 **Tager, J. M.** 1969-1970, 1978-1979

Includes correspondence *re* attempts to obtain supplies of aurovertin, 1969-1970.

Correspondence

G.1034, G.1035 **Tanford, C.** 1979-1983

G.1034 1979, 1982.

G.1035 1983. Includes correspondence *re* a paper by Tanford concerning the F_0F_1 ATPase mechanism.

G.1036-G.1040 **Tang, H.-L.** 1983-1991

G.1036 1983. Includes correspondence *re* Tang's work on the triphasic time-course of cytochrome *b* reduction.

G.1037 1984. Includes correspondence *re* Tang's experimental work on the pentaphasic reduction of cytochrome *b* and the protonmotive Q cycle.

G.1038 1985-1986. Includes correspondence *re* Tang's work.

G.1039 1987-1991.

G.1040 1987, 1990-1991. Recommendations.

G.1041 **Taylor, G. R.** 1966, 1973

Includes correspondence *re* the ideas of G.N. Ling.

G.1042 **Taylor, M.** 1988

Techniquest 1991

See also G.140.

Correspondence

G. 1043-G.1045 **Temple, R. K. G.** 1979-1984

G.1043 1979-1981. Includes correspondence relating to articles by Temple about Mitchell and the Glynn Research Institute which appeared in *The Economist* and the *Sunday Express*.

G.1044 1982-1983. Includes correspondence *re* Mitchell's open letter to Sir Jeremy Morse.

G.1045 1983-1984. Recommendation.

G.1046 **Teorell, T.** 1968

Terrell, G. 1988

Includes correspondence seeking financial support for the Glynn Research Institute from the Pacific Institute, USA.

Thaine, R. 1968

G.1047 **Thatcher, M. H., Baroness** 1984-1985

Includes 1p typescript letter by Mitchell *re* education, 22 November 1984.

Theg, S.M. 1981

Thilake, A. N. 1977-1980

G.1048 **Thomas, E.** 1980

Thomas, J. M. 1987-1990

Includes correspondence *re* the Royal Institution of Great Britain's fund-raising appeal, 1988.

Correspondence

G.1049	**Thomson, A. J.**	1987
	Thornburg, W.	[*ca.* 1967]
	Thorne, C. J. R.	1966, n.d.
	Thorpe, C.	1973
	Thorpe, W. V.	1967
G.1050	**Tice, L. E.**	1987
	Tinbergen, J.	1992
	Todd, A. R., Baron	1966
	Todrick, A.	1964
	Tonomura, Y.	1973
G.1051	**Tran, V. D.**	1986-1987

Includes correspondence *re* Tran's work.

	Trans-Neuro, Inc.	1976
G.1052	**Tredgold, R. H.**	1975, 1978-1979

Includes correspondence *re* Tredgold's work on energy conversion in oxidative phosphorylation.

Correspondence

G.1053-G.1060 **Trumpower, B. L.** 1975-1987

G.1053 1975-1976. Includes correspondence *re* the Q cycle.

G.1054 1977. Includes correspondence *re* the Q cycle and Trumpower's work on oxidation factor.

G.1055 1977-1978. Recommendation.

G.1056 1978. Includes correspondence *re* Trumpower's work; 1p typescript letter by Mitchell *re* a speculative mechanism for his observed H^+/O value of 5 for QH_2 oxidation.

G.1057 1979-1982. Correspondence *re* research interests.

G.1058 1980. Recommendation.

G.1059 1983. Recommendation.

G.1060 1984-1987.

G.1061 **Truter, M. R.** 1972-1973

Correspondence *re* Mitchell's work on whether NNN'N'-tetramethyl-1, 8-naphthalenediamine acts as a proton conductor in the membrane of mitochondria isolated from rat liver.

G.1062 **Tsou, C.-L.** 1984-1985

Turner, M. K. 1988

Includes correspondence *re* the constraints of the official scientific establishment.

Correspondence

G.1063 **Turney, J.** 1989-1990

Includes correspondence *re* Turney's interview of Mitchell for the *Times Higher Education Supplement*, 12 December 1989 (see also B.162) and *re* the value of independent research centres and the 'Establishment System'.

G.1064-G.1066 **Tyler, D. D.** 1967-1991

G.1064 1967-1972. Includes correspondence *re* Tyler and Mitchell's research interests.

G.1065 1973-1974, 1978-1980. Includes correspondence *re* the effect of the enzyme, superoxide dismutase, 1973.

G.1066 1982, 1985, 1991.

G.1067 **Tyutyunnik, W. M.** 1987-1989, 1991

G.1068 **Ussing, H. H.** 1957, 1979

G.1069 **Uttley, D.** 1979

Request for Mitchell to strike commemorative coins or medallions as a private commission (declined).

Valenti, L. C. 1982-1983

Vallance, R. 1976

Correspondence

G.1070 **Varley, W. J.** 1970-1972

Includes correspondence seeking Mitchell's advice *re* external salt bridges, 1971.

Vasilescu, V. 1973-1974, 1978-1981

G.1071 **Vassileva-Popova, J. G.** 1973-1982

G.1072-G.1075 **Velthuys, B. R.** 1979-1984

G.1072 1979.

G.1073 1980-1981. Includes correspondence *re* the Q cycle.

G.1074 1981. Refereeing grant application.

G.1075 1984. Recommendation.

G.1076 **Veselý, J.** 1983

Vickers, L. P. 1980

Vignais, P. V. & P. M. 1966, 1973, 1978-1979

G.1077 **Villalobo, A.** 1987

Vince, D. A. 1970-1972

Includes correspondence seeking Mitchell's advice, 1971-1972.

Correspondence

G.1078-G.1080	**Vinogradov, A. D.**	1976, 1989-1991
G.1078	1976. Editorial refereeing.	
G.1079	1989. Refereeing grant application.	
G.1080	1990-1991.	
G.1081	**Volk, S. E.**	1982, 1990
	Volkov, A. G.	1989
	Vries, S. de	1979
	Includes correspondence relating to the Q cycle.	
G.1082	**Wächtershäuser, G.**	1989
G.1083	**Wackym, P. A.**	1980
G.1084	**Waddell, W. J.**	1971
	Wade, H. E.	1961
	Correspondence *re* enzyme distribution in *E. coli.*	
G.1085	**Wagg, J.**	1988-1989
	Examining Ph.D. thesis.	
G.1086	**Wagner, M.**	1968

Correspondence

G.1087 **Wainio, W. W.** 1981, 1984

'An assessment of the chemiosmotic hypothesis of mitochondrial energy transduction' by Wainio, 36pp typescript.

Waldron, M. n.d.

G.1088, G.1089 **Walker, J. E.** 1984, 1986-1988

G.1088 1984, 1986.

G.1089 1987-1988. Nomination.

G1090-G.1093 **Walker, N. A.** 1971-1982

G.1090 1971, 1973. Includes correspondence relating to ion transport in plant cells.

G.1091 1974. Editorial refereeing.

G.1092 1974-1979, 1982. Includes correspondence *re* Mitchell's interest in building a windmill on his farm, 1974.

G.1093 1979. Refereeing grant application.

G.1094 **Wallis, R. C.** 1962

Walz, D. 1964, 1981-1982

Includes correspondence *re* the chemiosmotic hypothesis, 1964.

War Office 1962

Ward, A. T. 1988

Correspondence

G.1095 **Waring, M. J.** 1979-1980, 1984

Includes copy of Waring's draft entry *re* Mitchell's Nobel Prize for the Jesus College, Cambridge Year Book, with related correspondence, 1979.

Warren Triennial Prize Committee 1985-1986

G.1096 **Warshel, A.** 1982, 1987

Includes correspondence *re* the mobile barrier concept for porter action, 1987.

G.1097 **Weavers, B. A.** 1971

Correspondence etc. *re* the use of electron microscopy to obtain evidence about the distribution of catalytic components in mitochondrial cristae membranes.

Webb, E. C. 1971, 1978-1979

G.1098-G.1117 **Weber, B. H.** 1978-1992

Weber worked at California State University, Fullerton. His work involved particular emphasis on conceptual developments in bioenergetics.

G.1098 1978-1979. Includes correspondence *re* the development of Mitchell's ideas about chemiosmotic reactions and *re* reactions to his hypothesis, 1979.

G.1099 Photocopies of extracts from the Glynn Research Institute Council and Annual General Meeting reports, 1965-1979.

G.1100 1980. Includes correspondence *re* arrangements for Weber's visit to Glynn to interview Mitchell, 22-25 May.

G.1101 1980-1981. Recommendation.

Correspondence

G.1102	1981.
G.1103-G.1105	154pp typescript transcript of Weber's interview with Mitchell, 23-24 May 1980 (annotated by Mitchell). This was received by Mitchell in August 1981. 3 folders.
G.1106, G.1107	23-24 May 1980. Transcript of Weber's interview with Mitchell, 64pp typescript. This incorporates Mitchell's earlier annotations on G.1103-G.1105. 2 folders.
G.1108	1982. Includes 2pp typescript letter by Mitchell giving answers to questions by Weber, 2 April.
G.1109	*ca.* 1982. 'Small is beautiful; A comparison of the effectiveness of the private laboratories of Lundegardh and Mitchell' by Weber, 8pp typescript lecture.
G.1110	*ca.* 1982. 'How does biochemistry mean?' by Weber, 34pp typescript. Includes material concerning Mitchell.
G.1111	1983-1985. Includes 3pp typescript letter by Mitchell, 26 November 1983, *re* the outcome of the Consultative Collaboration on cytochrome oxidase at Glynn, March 1983.
G.1112	1985. 'Historical and Philosophical Issues in Bioenergetics; at the Interface of Biology and Physics' by Weber, 23pp typescript lecture. Includes material concerning Mitchell.
G.1113	*ca.* 1985. 'The impact of the Prague Symposium on the conceptual development of bioenergetics: a retrospective and prospective view' by Weber, 9pp typescript. Includes material concerning Mitchell.
G.1114	1986. Recommendation.

Correspondence

G.1115 1986-1987. Includes correspondence *re* the development of Mitchell's ideas.

G.1116 1988-1992. Includes invitation for Weber to give a lecture on aspects of the historical development of chemiosmotic ideas and knowledge at the Glynn Silver Jubilee Meeting, 11-12 October 1990 (accepted).

G.1117 1991-1992. 'Ann's Bruce Weber file - Biographical Book'. Contents of folder so inscribed. Includes photographs [?of Mitchell and his family etc.]; photocopies of photographs; correspondence, 1991.

G.1118, G.1119 **Weber, G.** 1960, 1972-1973

G.1118 1960, 1972-1973. Correspondence *re* protein fluorescence, 1960 and Mitchell's chemiosmotic coupling mechanism.

G.1119 *ca.* 1973. Typescript of talk by Weber.

G.1120 **Weinback, E. C.** 1973, 1976

Weiner, M. W. 1973

G.1121, G.1122 **Weiss, D. E.** 1969-1972

G.1121 1969. Editorial refereeing.

G.1122 1970, 1972.

Correspondence

G.1123 **Weiss, J. J.** 1968

Weiss, L. 1978-1979, 1989-1990.

Includes correspondence *re* fund-raising for the Glynn Research Institute, 1989-1990.

Weller, M. 1974

G.1124 **Welsch, F.** 1973-1974, 1978-1979

Werbin, H. 1967

G.1125-G.1139 **West, I. C.** 1967-1992

Ian West was a research fellow at Glynn between 1970 and 1973 and was again involved in research at the Institute in the period 1983-1988.

G.1125 1967-1968.

G.1126 1970-1971. Copy of research proposal, 'The coupling between metabolism and the uptake of β-galactosides by *Escherichia coli* ' by West and Mitchell, with related papers.

G.1127 1970-1972.

G.1128 1973. Recommendations.

G.1129 1973-1974.

G.1130 1975-1976.

Correspondence

G.1131 1975-1976. Recommendations.

G.1132 1977.

G.1133 1978-1981.

G.1134 1982. Includes correspondence *re* the possibility of expanding the biochemistry research group at Glynn.

G.1135 1982-1983. Papers relating to a grant application to the Medical Research Council. Includes manuscript notes by Mitchell and West.

G.1136 1982-1984. Correspondence etc. *re* West's appointment as a Research Reader at the Glynn Research Institute.

G.1137 1983. Includes correspondence and manuscript notes by West *re* Medical Research Council project; correspondence and notes *re* the arrangement for the Collaborative Consultation at Glynn on 'Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', 22-24 March 1983.

G.1138 1989. Refereeing grant application.

G.1139 1989-1992.

G.1140-G.1142 **Westerhoff, H. V.** 1981-1984

G.1140 1981-1982. Includes correspondence *re* localised and delocalised chemiosmotic coupling and *re* the stoichiometry debate.

G.1141 1982 September. 'The present state of the chemiosmotic theory' by Westerhoff, 41pp typescript draft.

Correspondence

G.1142 1983-1984. Includes correspondence *re* chemiosmotic coupling and Westerhoff's work.

G.1143 **Wetzstein, H. G.** 1988-1989

G.1144 **Whalen, W. J.** 1981-1982

Correspondence *re* Whalen's article on oxidative metabolism of the carotid body.

G.1145, G.1146 **Whatley, F. R.** 1966, 1972, 1976-1979

G.1145 1966, 1976-1979.

G.1146 1972. Refereeing grant application.

G.1147 **Whelan, W. J.** 1961, 1987

Whitbread, H. 1988

White, A. M. 1990

Correspondence etc. *re* Ciba-Geigy's financial support for the Silver Jubilee meeting, 10-13 October 1990.

G.1148, G.1149 **White, B. J.** 1977

G.1148 Correspondence *re* White's work on cytochrome oxidase etc.

G.1149 Editorial refereeing.

Correspondence

G.1150	**White, W. H.**	1979
	Whitehouse, M. W.	1966
	Whiteley, J & D.	1978-1982, 1987
G.1151	**Whittam, R.**	1966-1967
	Wiame, J. M.	1980
	Wiggins, T. E.	1986
G.1152, G.1153	**Wijeratne, B.**	1980-1992

G.1152 1980-1981. Includes papers *re* arrangements for Mitchell to lecture at the 10th International Conference on the Unity of Sciences (ICUS), 9-13 November 1981, Seoul, South Korea (Mitchell withdrew).

G.1153 1984, 1987-1992. Includes correspondence seeking Mitchell's involvement in the activities of the British Academy for World Peace.

G.1154-G.1173	**Wikström, M. K. F.**	1969-1991

The correspondence between 1977 and 1985 relates largely to the controversy regarding the function of cytochrome oxidase in mitochondria. This was resolved in 1985 when Mitchell agreed that cytochrome oxidase pumps protons. The correspondence between 1986 and 1991 relates largely to research on the mechanism of cytochrome oxidase.

G.1154 1969, 1972-1974. Includes correspondence *re* work on cytochrome *b* and other research interests.

G.1155 1975-1976. Includes correspondence *re* Wikström's work on the mechanism of conformational change in cytochrome oxidase.

Correspondence

G.1156 1977.

G.1157 1978 January-March.

G.1158 1978 April-October.

G.1159 1979-1980.

G.1160 1981 May-August.

G.1161 1981 September-December.

G.1162 1982 February-June.

G.1163 1982 July-December.

G.1164 1983. Includes correspondence *re* the Collaborative Consultation at Glynn on 'Electron Translocation and Proton Ejection by Cytochrome Oxidase Vesicles', 22-24 March 1983; correspondence *re* the Q cycle and Wikström's *b* cycle.

G.1165 1983. Editorial refereeing.

G.1166 1984. Includes correspondence *re* the Q cycle and *b* cycle.

G.1167 1985. Includes correspondence *re* the mechanism of proton translocation by cytochrome oxidase.

G.1168 1986. Nomination.

Correspondence

G.1169 1986. Editorial refereeing.

G.1170 1986-1987.

G.1171 1987. Editorial refereeing.

G.1172 1988.

G.1173 1989, 1991.

G. 1174 **Wilhelm, R. H.** 1966

Wilkie, D. 1962

Williams, J. 1989

Correspondence *re* Mitchell's reminiscences of D.M.M. Needham.

G.1175 **Williams, M. J.** 1989-1990

Williams was Honorary Treasurer of the Glynn Research Foundation's Council of Management.

Williams, P. J. 1963

G.1176-G.1190 **Williams, R. J. P.** 1961-*ca.* 1982

G.1176-G.1187 Bundle of correspondence between Mitchell and Williams, 1961-*ca.* 1982. The material largely relates to Mitchell and Williams's different hypotheses of the coupling mechanism of oxidative phosphorylation and to the controversy regarding the development of their ideas.

G.1176 1961 February-March.

Correspondence

G.1177	1961 April-May.
G.1178	1966 July-August.
G.1179	1966 September.
G.1180	1970.
G.1181	1973 October.
G.1182	1973 November.
G.1183	1975-1976.
G.1184	1977.
G.1185	1978 April.
G.1186	1978 May-November.
G.1187	1979, *ca.* 1982.
G.1188	'A few relevant letters'. Contents of bundle so inscribed. Includes correspondence between Mitchell and M. Dixon, R. Hill, D. Keilin, D.H. Northcote and others *re* manuscripts by Mitchell, 1960-1961.

Correspondence

G.1189 'Conduction of protons through the membranes of mitochondria and bacteria by uncouplers of oxidative phosphorylation' by Mitchell, 7pp typescript and manuscript draft of talk, *ca.* 1961; reprints of two abstracts referred to in Mitchell's correspondence with Williams, 1961, 1962.

G.1190 'Fundamental Features of Proton-Coupled Transport', printed proof of Williams's abstract for the 506th Meeting of the Biochemical Society (annotated by Mitchell), 1976.

G.1191-G.1193 **Wilson, D. F.** 1970-1979

G.1191 1970-1979.

G.1192 1973. Refereeing grant application.

G.1193 1977. Editorial refereeing.

G.1194-G.1198 **Wilson, M. T.** 1983-1990

G.1194 1983-1985. Includes correspondence *re* proton pumping by cytochrome oxidase vesicles.

G.1195 1984, 1986. Recommendations.

G.1196 1986-1987. Includes correspondence *re* Mitchell's work on the mechanism of cytochrome oxidase.

G.1197 1988-1989. Includes correspondence *re* a grant application by the Glynn Research Institute, 'Structure/function studies of yeast cytochrome oxidase by a combination of molecular genetic, biophysical and biochemical techniques', 1989.

G.1198 1989, 1990. Recommendations.

Correspondence

G.1199 **Wilson, P. W.** 1960-1961

Wimpenny, J. W. T. 1979-1981

Includes correspondence *re* a paper by Wimpenny concerning microbial ecology.

Wink, M. 1985

G.1200 **Winkler, H. H.** 1970

Winkler, P. G. 1990

G.1201, G.1202 **Wiskich, J. T.** 1968-1989

G.1201 1968-1970, 1978-1979. Includes correspondence *re* the distinction between the chemical and electrical components of the total protonmotive force, 1968.

G.1202 1981. Refereeing grant application. 1989. Recommendation.

G.1203 **Wisniewski, K.** 1966

Wit, J. G. 1969

G.1204-G.1210 **Witt, H. T.** 1966-1984

G.1204 1966-1967. Includes correspondence *re* arrangements for Mitchell to visit and give a seminar at the Technische Universität Berlin, 7-8 February 1967. Mitchell spoke on 'Some aspects of the chemiosmotic hypothesis of oxidative and photosynthetic phosphorylation'.

G.1205 1968, 1970-1971. Includes correspondence *re* Witt's research and the chemiosmotic hypothesis.

Correspondence

G.1206 1973-1974. Includes correspondence *re* Witt's manuscript, 'Primary Acts of Energy Conservation in the Functional Membrane of Photosynthesis'.

G.1207, G.1208 'Primary Acts of Energy Conservation...', 99pp typescript. 2 folders.

G.1209 1977-1979. Includes correspondence *re* Witt's work on conformational change of the chloroplast ATPase, 1977.

G.1210 1982, 1984. Includes correspondence *re* the methods of mobilising scientific opinion and pressure, 1984.

G.1211 **Wittenberg, J.B.** 1968

Wojtczak, L. 1966, 1978-1979

Wolf, C. 1977

Wolovey, F.J. de, Comtesse 1989

G.1212 **Wolpert, L.** 1968, 1978-1979, 1988-1990

Includes correspondence *re* Mitchell's proposal of a multi-author book 'Science and Humanity', including list of invited contributers and suggested titles, 1989 etc. See D.202-D.206 for details of the proposed publication.

G.1213 **Wood, H. G.** 1977

Wood, K. M. 1985-1987

Includes correspondence *re* the establishment of research laboratories in geographically isolated locations, 1985-1986.

Wood, P. M. 1975-1976

Correspondence

G.1214 **Woodbine, M.** 1977

Woodruff, H. B. 1961

Woodward, D. O. 1968

Woodward, F. W. 1978-1979

Correspondence *re* expanding Glynn Research Limited's Council of Management.

G.1215 **Wookey, P. J.** 1973, 1980-1982

Includes correspondence *re* Wookey's suggestion that ATP synthesis in mitochondria could be catalysed by the reversal of a Ca^{2+} motive ATPase.

G.1216 **Work, T. S.** 1968, 1979

Worrall, R. L. 1986

Wraight, C. A. 1977-1979

G.1217-G.1221 **Wrigglesworth, J. M.** 1979-1992

G.1217 1979-1983.

G.1218 1983-1984. Papers *re* Wrigglesworth's appointment as a Principal Research Fellow at Glynn Research Institute.

G.1219 1985. Includes photocopies of manuscript diagrams by Mitchell *re* his O loop and O cycle mechanisms.

Correspondence

G.1220	1987-1988, 1990. Includes correspondence *re* the Cu_B mechanism.	
G.1221	1990-1992. Refereeing grant applications.	
G.1222	**Yamaoka, H.**	1979-1981
G.1223, G.1224	**Yariv, J.**	1969-1974
G.1223	1969-1970. Recommendation.	
G.1224	1974.	
G.1225	**Younis, H. M.**	1982
G.1226	**Zajic, J. E.**	1981
	Zalkin, H.	1966
	Zsolt, D.	1973
G.1227-G.1232	**Miscellaneous Correspondence**	
G.1227	Unidentified and first name only.	1961, 1964, 1985
G.1228	'References-Personal'. Contents of folder so inscribed: list of scientists headed 'Cross-Reference List', 1980.	

Correspondence

G.1229-G.1231 'Correspondence *re* article in Sunday Express Supplement 25.10.81'. Contents of folder so inscribed. Containing two folders inscribed 'Economics' and 'Other' respectively. 1981-1982.

The correspondence and printed matter contained therein relates to an article by R.K.G. Temple *re* inflation which appeared in the *Sunday Express Supplement*. See also G.1043-G.1045.

G.1229, G.1230 'Economics'. Contents of folder so inscribed divided into two for ease of reference. 1981-1982.

G.1229 Correspondence *re* economic matters from general public in response to article, October-November 1982.

G.1230 Printed matter *re* economics sent to Mitchell, 1981-1982.

G.1231 'Other'. Contents of folder so inscribed. Correspondence *re* non economic matters from general public in response to article, October 1981-January 1982.

G.1232 'Cytochrome oxidase nomenclature letter'. Contents of folder so inscribed, consisting of a top copy of circular letter and a list of those to whom it was sent, May 1988.