Catalogue of the papers and correspondence of

James Harrison Renwick MB, ChB, DSc, FRCP

(1926-1994)

By Timothy E. Powell and Peter Harper

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Compiled by:	Timothy E. Powell and Peter Harper
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GENERAL INTRODUCTION

PROVENANCE

The archive was received via Professor Sue Povey, Haldane Professor of Human Genetics, University College London, in February 2005.

OUTLINE OF THE CAREER OF JAMES HARRISON RENWICK

James Harrison Renwick was born in Otley, Yorkshire on 4 February 1926. He was educated at Sedburgh School winning a Harkness Scholarship to the University of St Andrews in 1943. He studied medicine, graduating M.B., Ch.B. in 1948. After various hospital appointments, 1948 to 1951, Renwick did his national service in the Royal Army Medical Corps 1951-1953, serving in Korea and seconded part-time to the Atomic Bomb Casualty Commission, Japan (final rank of Captain). In 1953 Renwick was awarded a Medical Research Council grant to train in Human Genetics. He undertook this work in the Galton Laboratory of University College London, studying under L.S. Penrose and J.B.S. Haldane (Ph.D. 1956).

Renwick spent a period 1958-1959 working under V.A. McKusick at the Johns Hopkins Hospital Department of Human Genetics (appointment as Physician). On his return to the UK in 1959 he took up a post as Research Fellow in G. Pontecorvo's Department of Genetics at Glasgow University. He was appointed Senior Lecturer in 1960, Reader in 1966 and Titular Professor in 1967. In 1968 Renwick moved to the London School of Hygiene and Tropical Medicine as Reader in Human Genetics in the Department of Community Health and Head of the Preventive Teratology Unit. In 1978 he was appointed Professor of Human Genetics and Teratology, and also became Honorary Consultant Counsellor in Human Genetics at St George's Hospital, London. He retired in 1991.

Renwick made a fundamental contribution to modern genetics, in particular to the development of human gene mapping that paved the way for the Human Genome Project. Working initially at the Galton Laboratory, University College London, with L.S. Penrose, then at the University of Glasgow, and latterly at the London School of Hygiene and Tropical Medicine, for a period of nearly 20 years up to the early 1970s, he pioneered the use of genetic markers to map disease genes on human chromosomes, seeing this field develop from its infancy at a time when there was virtually no information on mapping human genes to a major international scientific endeavour. His *Independent* obituarist notes that, 'His work linking the ABO blood groups and the nail-patella syndrome was seminal and is still cited as a classic in human linkage analysis' and he was behind the first generalised computer program for calculating LODs (Logarithm of Odds) for large human pedigrees.

He also was involved in a major ongoing transatlantic collaboration on gene mapping with V.A. McKusick, making many visits to Johns Hopkins as a consultant on the application of computer techniques to genetical linkage, building on mathematical work initiated by C.A.B. Smith at the Galton Laboratory. Renwick's key role in this work was due to his expertise in three essential areas: the clinical assessment of the families with specific genetic disorders, the laboratory analysis of the genetic markers and the mathematical and computing approaches to the data obtained.

In 1972 he radically changed direction, following what he described as a 'unilateral termination of computer facilities' at Johns Hopkins and his consequent 'ejection from the field'. The subsequent years of his career at the London School of Hygiene and Tropical Medicine were mainly spent on analysis of causative factors in human malformations, studying in particular birth defects with an early study on the possible relation between toxins in potatoes and anencephaly and spina bifida (ASB).

Renwick was active in a number of genetical societies, including the Genetical (later Genetics) Society, which he served as Honorary Treasurer 1960-1965 and then auditor 1965-1972. He was a founder of the Developmental Pathology Society, serving as its President. He was also active in social activities at the London School of Hygiene and Tropical Medicine. Renwick was made a Fellow of the Royal College of Physicians of Glasgow (1970) and the Royal College of Physicians of London (1974) and a Fellow of the Royal College of Pathologists (1982). He was awarded the University of London D.Sc. in 1970. He died on 29 September 1994.

DESCRIPTION OF THE COLLECTION

The material presented here chiefly dates from the period of Renwick's human genetics research from the mid 1950s to the early 1970s.

Section A, Biographical, is slight. It includes obituaries, curricula vitae and lists of publications.

Section B, University of Glasgow, is also a short section. There are two memoranda on leucocyte grouping at Glasgow in the late 1960s but most of the material relates to the preparation of examination questions in genetics.

Section C, Research, is the largest component of this archive. The research material presented here records Renwick's fundamental contribution to gene mapping research, his key contribution to science and medicine carried out at the Galton Laboratory, University of Glasgow and Johns Hopkins, and latterly at the London School of Hygiene and Tropical Medicine. Renwick was a meticulous record-keeper and the material forms a very complete record, bringing together pedigree charts and associated family information on patients from all over the UK, the US and elsewhere, offprints

frequently annotated by Renwick, covering letters from doctors, correspondence with colleagues, and associated medical, laboratory and computing data, filed by project. It thus documents a notable contribution to one of the most important fields of later twentieth-century science and gives an excellent picture of how the field evolved.

The bulk of the research material is the contents of Renwick's box files of data on family pedigrees. There are three distinct sequences. The first, and largest, is organised by disease, with the diseases coded in an alphabetical sequence, beginning with AA (Congenital analgesia). The second sequence is organised by chromosomal abnormality, and the third sequence is of non-disease pedigrees. There are also sequences of material arranged under the headings 'Linkages' and 'Mapping', material on coding methodology, and on computing analysis and procedures - this including work with J. Schulze and D. Bolling on the development of computer programs. A number of other research collaborators are represented in the papers, including S.D Lawler, M.M. Izatt and E.B. Robson. Other significant correspondents in the field include C.A. Clarke, M.A. Ferguson-Smith, V.A. McKusick, L.S. Penrose and C.A.B. Smith.

Renwick's later research on analysis of causative factors in human malformations is very sparsely documented. In some cases an ongoing research interest in an individual condition, for example, cataracts, is documented alongside the earlier data from the 1960s.

Section D, Publications, includes drafts for some of Renwick's published papers 1961-1990, though the majority of the material dates from the early 1970s. Articles documented range from 'Probable linkage between a congenital cataract locus and the Duffy blood group locus', with S.D. Lawler, *Ann. Hum. Genet.* vol 27 (1963) to 'On avoiding statistical bias in linkage-based counselling', *Ann. Hum. Genet.* vol 54 (1990). There are some of the many book reviews by Renwick 1955-1980 and editorial correspondence, chiefly documenting the refereeing of papers for journals. There is also a set of Renwick's offprints. Further drafts of Renwick's publications may be found in Section C, with the research material to which they relate.

Section E, Lectures and conferences, is very slight and represents only a tiny fraction of Renwick's output in these areas.

Section F, Societies and organisations, documents Renwick's involvement with fourteen UK, overseas and international bodies. The most fully documented are the Developmental Pathology Society 1971-1991 and the Genetics Society 1954-1991. A number of the organisations are represented by Renwick's refereeing of grant proposals.

Section G, Correspondence, is not extensive. Renwick kept the bulk of his scientific correspondence with the research to which it related, and it is consequently to be found in Section C. With the

exception of the correspondence with L.R. Weitkamp at G.3, there are no extended exchanges of letters. Other correspondents represented by more than the individual letter include E.A. Murphy, Ruth Sanger and C.A.B. Smith. There are also references and recommendations.

There is also an index of correspondents.

LOCATION OF OTHER MATERIAL

Papers relating to Renwick's service as secretary of the Senior Common Room and the Dining Club of the London School of Hygiene and Tropical Medicine have been placed in the Archives of the LSHTM.

ACKNOWLEDGEMENTS

We are grateful to Professor J.H. Edwards for ensuring the records were preserved, Professor Sue Povey for temporarily housing the archive in the Department of Biology, University College London, and Professor Peter S. Harper for his advice and support during the cataloguing process.

Timothy E. Powell
Peter Harper
Bath 2006

SECTION A	BIOGRAPHICAL, A.1-A.7	1940s-1994
A.1	Obituaries: *The Independent* by P. Fine, 13 October; Munk's Roll (Royal College of Physicians) by T.J. David.	1994
A.2	Curricula vitae The curricula vitae vary quite widely in the level and nature of information they include, which may reflect Renwick's changing research interests and institutional affiliations.	1967-ca 1987
A.3	Other statements of career and research	1970s-1985
A.4	Entries for biographical directories	1980s
A.5	Lists of publications and book reviews The lists of publications go up to 1989, the book reviews up to 1981	
A.6	'Student paper by James H. Renwick. Rhythm in Human Physiology' 15pp typescript with manuscript corrections.	1940s
A.7	Miscellaneous material *re* career Cutting *re* Chair in Human Genetics, Edinburgh University, 1966; list of work submitted for University of London D.Sc. 1970; letter *re* appointment as part-time Lecturer in Medicine, Johns Hopkins University, 1970; curriculum vitae for application for post at University of Western Australia 1980s.	1966-1980s

SECTION B **UNIVERSITY OF GLASGOW, B.1-B.10** **1962-1982, n.d.**

B.1 'Memorandum on leucocyte grouping in Glasgow' by Renwick, 28 November 1967

Typescript draft with extensive manuscript correction; 4pp photocopy typescript of final version.

Renwick notes, 'If I am to play a part in these developments, this ad hoc group [leucocyte grouping team] might wish to help to regularise my position with regard to laboratory reports, etc., by recommending some honorary hospital appointment as human geneticist'.

B.2 'Transplantation of organs', author unknown, 3 January 1968

Memorandum on leucocyte grouping and kidney transplant procedure.

This refers to Renwick's memorandum at B.1.

B.3, B.4 'Seminars' 1962-1967

Contents of Renwick's folder so inscribed: correspondence *re* arrangements for seminars delivered in the Department of Genetics by visiting academics.

B.3 1962-1965

B.4 1966-1967

Includes lists of invitees.

B.5-B.10 'J. Renwick Genetics. Exam' 1965-1982, n.d.

Contents of Renwick's folder so inscribed: examination questions, answers and marks.

Includes (B.8) later material from St Thomas's Hospital Medical School, London.

B.5 1965-1966

University of Glasgow, B.1-B.10

B.6	1967-1968	
B.7	1971	
B.8	1979, 1982	
B.9, B.10	Miscellaneous examination questions 2 folders.	N.d.

SECTION C **RESEARCH, C.1-C.922** **1946-1994**

Renwick made a fundamental contribution to modern genetics, in particular to the development of human gene mapping that paved the way for the Human Genome Project. For a period of nearly 20 years up to the early 1970s, he pioneered the use of genetic markers to map disease genes on human chromosomes, seeing this field develop from its infancy at a time when there was virtually no information on mapping human genes to a major international scientific endeavour. Working initially at the Galton Laboratory, University College London, with L.S. Penrose, then at the University of Glasgow, and latterly at the London School of Hygiene and Tropical Medicine, he also was involved in a major transatlantic collaboration on gene mapping with V.A. McKusick of the Johns Hopkins School of Medicine, Baltimore, USA.

Renwick's key role in this work was due to his expertise in three essential areas: the clinical assessment of the families with specific genetic disorders, the laboratory analysis of the genetic markers and the mathematical and computing approaches to the data obtained. In the early 1970s he changed direction and the later years of his career at London School of Hygiene and Tropical Medicine were mainly spent on analysis of causative factors in human malformations.

The research material presented here records Renwick's gene mapping research, his key contribution to science and medicine carried out at the Galton Laboratory, University of Glasgow and Johns Hopkins, and latterly at the London School of Hygiene and Tropical Medicine. It is a very complete record, bringing together correspondence with other key figures, raw laboratory and computing data, and relevant published literature, filed project by project. It thus documents a notable contribution to one of the most important fields of late twentieth-century science and gives an excellent picture of how the field evolved.

The great bulk of the material was found in Renwick's own labelled boxfiles. The boxfiles ran in a number of more or less coherent sequences and this arrangement is followed, as far as possible, in the presentation of the material below.

A number of research collaborators are represented in the papers, including Jane Schulze, S.D. Lawler and M.M. Izatt and E.B. Robson. Other correspondents include C.A. Clarke, M.A. Ferguson-Smith, V.A. McKusick, L.S. Penrose and C.A.B. Smith.

Renwick's later research on analysis of causative factors in human malformations is very sparsely documented as a discrete body of material, with a very little material at

Research, C.1-C.922

C.909-C.916. In some cases an ongoing research interest in an individual condition, for example, cataracts, is documented alongside the earlier data from the 1960s.

The material is presented as follows:

C.1-C.6	CODING
C.7-C.9	METHODOLOGY
C.10-C.504	PEDIGREES: DISEASE
C.505-C.560	PEDIGREES: CHROMOSOMAL ABNORMALITY
C.561-C.619	PEDIGREES: NON-DISEASE
C.620-C.688	LOGARITHMS OF ODDS
C.689-C.732	LINKAGE
C.733-C.827	MAPPING AND CLUSTERS
C.828-C.892	WORK OF OTHERS
C.893-C.908	MISCELLANEOUS GENETICS RESEARCH
C.909-C.916	LATER RESEARCH INTERESTS
C.917-C.922	FUNDING OF RESEARCH

Research, C.1-C.922

C.1-C.6	**CODING**	**1965-1973**
	This material is coding instructions for analysis of pedigree data (using the the Bolling Multi-Generation Coding Program). It is detailed coding, with up to 80 pieces of essential information for each individual being recorded. See also C.670-C.688.	
C.1	'Linkage Study Coding Instructions' by Renwick, Department of Genetics Moore Clinic, Johns Hopkins Hospital Photocopy typescript with manuscript annotation and correction. Latest date February 1970.	ca 1970
C.2	'Code'. Contents of ring binder so inscribed Typescript and manuscript instructions for pedigree coding.	ca 1970
C.3-C.5	'New Code'. Contents of ring binder so inscribed on spine, also inscribed 'A2' on front cover: instructions for pedigree coding The inside of the binder was stamped 'Victor A. McKusick, M.O. The Johns Hopkins Hospital' but a note 'Send results in this order [...]' (at C.3) was later sellotaped over it.	1965-1973
C.3	Papers found loose at front of binder	
C.4, C.5	Papers held in ring binder, divided into two for ease of reference	
C.6	Index cards of coding instructions	N.d.

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C.7-C.9	**METHODOLOGY**	**1968-ca 1982**
C.7, C.8	'[Electro]Phoresis Methods'. Contents of ring binder so labelled on spine	1968-1982
C.7	Papers found loose at front of binder: manuscript and typescript instructions, chiefly on preparing hamsters	1977-1982
C.8	Papers held in ring binder Manuscript and photocopy typescript and printed instructions	1968 and later
C.9	Hardback notebook inscribed 'Rm 131 Methodology' on front cover Manuscript notes on preparations, not in Renwick's hand. Latest bibliographical reference 1982.	ca 1982
C.10-C.504	**PEDIGREES: DISEASE**	late 1950s-1990s

The material presented in this and the following two sequences of Pedigrees is the contents of Renwick's box files of data on family pedigrees. It forms the core of Renwick's research documented in this catalogue.

The three sequences are distinct. The first, and largest, is organised by disease. The diseases are coded in an alphabetical sequence, beginning with AA (Congenital analgesia). The second sequence (C.505-C.560) is organised by chromosomal abnormality, and the codings begin F, J, U and V. The third sequence (C.561-C.619) is of non-disease pedigrees. Published pedigrees are coded by publication date, thus 69A is a paper published in *Annals of Human Genetics* in 1969. Unpublished non-disease pedigrees are at the end of this sequence, starting 9...

Within the boxfiles Renwick organised material in coded sequences within folders. These were annotated, often heavily, with information relating to the case and have therefore in many cases been retained. The folders may include pedigree charts and associated family information,

Research, C.1-C.922

offprints (often in the form of thermocopies or photocopies) frequently annotated by Renwick, notes (often thermocopies), covering letters from doctors, correspondence with colleagues, and associated medical data. Renwick gathered information on patients from all over the UK, the US and elsewhere.

Giving any but the roughest estimate of date is difficult. The period in which the bulk of the folders were created by Renwick spans roughly the period from the mid 1950s to the early 1970s. However, dating individual folders is often impossible. The only material bearing any date is often thermo- or photocopied offprints that were published well before the research, and Renwick would sometimes add related material for interest years after the file had ceased to be active, into the 1990s in a few cases. Therefore dates are only given in the entries when some degree of precision is possible.

Much of Renwick's data was derived from medical investigations of identified families and is therefore subject to restricted access.

C.10 AA, Congenital analgesia

C.11, C.12 AC, Hereditary spherocytosis

2 folders.

C.13 AD, Adynamia episodica

C.14, C.15 AE, Angioneurotic oedema

2 folders.

C.16 AF, Abnormal fibrinogen

C.17 AH, Achondroplasia

Research, C.1-C.922

C.18,C.19	AN, Aniridia 2 folders.	
C.20	AO, unidentified	
C.21-C.23	AT1, Ataxia 3 folders.	
C.24	AT2, Friedreich's Ataxia	
C.25	'ATCANIA' and 'ATCAMIA' *Re* Charcot-Marie-Tooth disease. This does not fit into Renwick's standard coding system but was found in the alphabetical sequence.	
C.26-C.30	AZ, Alzheimer's Disease	1965-1969
C.26	Includes correspondence 1965-1969; photocopy of typescript draft of 'Blood Group Studies in Familial Alzheimer's Disease Linkage' by Renwick and R.G. Feldman, with manuscript corrections.	
C.27	Includes correspondence 1965-1969; typescript of 'Blood Group Studies in Familial Alzheimer's Disease: Linkage Data' by R.G. Feldman 'Draft 10/15/66'.	
C.28	Includes 'final draft' of 'Blood Group Studies in Familial Alzheimer's Disease: Linkage Data' by R.G. Feldman, with covering letter August 1967	
C.29,C.30	Pedigree charts etc 2 folders.	

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C.31 BM, Bloom's Syndrome

C.32 BP, 'Bishop pedigree'

It is not clear if this fits into Renwick's standard coding system.

C.33, C.34 BR, Brachydactyly

2 folders.

C.35-C.69 CA, Cataracts

Renwick's study of congenital cataracts began in 1961 and he continued to have an interest in the subject up to the early 1990s. At C.4 Renwick records: 'Cataract is quite different in that each pedigree (with few exceptions) has so far been different clinically from all others. Hence each has a subtype of its own coded in col 3 (and for convenience we name the subtype after the pedigree name)'.

At C.69 is Renwick's background material on cataracts.

See also C.793.

C.35-C.40 CAE, Everett

6 folders.

C.41-C.50 CAF, Forman

Chiefly material relating to collaborative work with N.H. Lubsen and others, including 'A locus for a human hereditary cataract is closely linked to the gamma-crystallin gene family', *Proc. Natl. Acad. Sci. USA* vol 84 (1987), 489-492, and Renwick's consultancy on Lubsen's research project 1989.

The material was all found in one bulky folder (retained at C.47) which has been subdivided for ease of reference.

C.41 Drafts and photocopy of 'A locus for a human hereditary cataract'; figures

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C.42 — Typescript drafts of 'Hereditary cataract: perspective for prenatal screening' by N.H. Lubsen, Renwick and J.G.G. Schoemakers, with manuscript corrections; 1p typescript abstract of 'Coppock Cataract Locus assigned to Chromosome ARM 2q' by Lubsen, Renwick *et al*, for presentation at Biochemical Society meeting

C.43 — Papers *re* draft grant application to Medical Research Council for work on congenital cataracts

C.44 — Correspondence with N.H. Lubsen and other colleagues, 1984-1989

C.45 — Correspondence with others *re* work on cataracts, 1983-1990

C.46 — Correspondence *re* patients, 1983-1986

C.47-C.50 — Miscellaneous offprints, pedigree charts, data etc

4 folders.

C.51 — CAL, Monks

C.52, C.53 — CAM, Mohr

2 folders.

C.54 — CAO, Ormond

C.55-C.64 — CAP, Elwell (posterior polar)

C.55-C.59 is the contents of a bulky folder inscribed 'CAPEA-B', including offprint of 'Familial cataract with extensive pedigree chart' by I.L. Johnstone, *British Journal of Ophthalmology*, July 1947 extensively

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annotated and updated by Renwick; with typescript draft of the article and mounted figures.

Much of this material relates to work initiated by I. Lloyd Johnstone, Honorary Surgeon at the Worcester City and County Eye Hospital. He passed notes and original correspondence (chiefly from the 1940s) on to Renwick in 1969.

10 folders.

C.65 CAT, Tonks

C.66 CAW, Walker

C.67 'Teratogen-induced cataract'

Chiefly background material on causes of cataracts in animals and humans.

C.68, C.69 'CAT Refs only'

C.68 Patient notes, 1987

C.69 Background material on cataracts

C.70-C.81 CD, Corneal dystrophy

C.70-C.72 CD1, Granular corneal dystrophy

3 folders.

C.73-C.77 CD2, Lattice corneal dystrophy

5 folders.

C.78 CD4, Reis-Bücklers dystrophy

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C.79-C.81	CDK	ca 1968
	Material relating to draft of 'Congenital Corneal Dystrophy of [blank]: analysis of human linkage data' by Renwick and W.G. Pearce.	
	3 folders.	
C.82	CK, Polycystic kidneys	
C.83-C.86	CL, Caldwell antigen	
	4 folders.	
C.87	CO, Co a antigen	
C.88	CP, Camptodactyly	
C.89-C.91	CT, Catalase	
	C.91 is notebook used for test results May-December 1961.	
	3 folders.	
C.92	Cardiomyopathy	
C.93, C.94	DA, Diaphysial aclasis (or multiple exostosis)	
	2 folders.	
C.95,C.96	DE, Deafness	
	2 folders.	
C.97, C.98	DG, Dermatoglyphic syndromes	

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C.97 DG1, Absence of dermatoglyphs

C.98 DG2, 'Ridges-off-the-End'

C.99 DH, Dermatitis herpetiformis

C.100-C.134 DM, Dystrophia myotonica 1970s

This was a major research interest of Renwick's in the early 1970s. He co-authored and advised on a number of articles on the disease, and material relating to the articles was found with pedigrees and data.

C.100-C.106 'DM1..3M'

Chiefly *re* 'Confirmation of linkage of the loci for myotonic dystrophy and ABH secretion', by Renwick, S.E. Bundey, M.A. Ferguson-Smith and M.M. Izatt, *J. Med. Genet.*, vol 8 (1971).

C.100 Photocopy typescript draft

C.101 Figures; photocopy typescript pages of 'Sarah [Bundey]'s changes'

C.102 Photocopy of proof with manuscript corrections

C.103 Photocopy of proof with manuscript corrections of 'An analysis procedure illustrated on a triple linkage of use for prenatal diagnosis of myotonic dystrophy', by Renwick and D.R. Bolling, *J. Med. Genet.*, vol 8 (1971)

See also C.114.

C.104 Figures

Research, C.1-C.922

C.105, C.106 — Data, tables etc.

2 folders.

C.107-C.110 — 'DM1 HARPER-RIVAS'

Chiefly *re* 'Genetic linkage confirmed between the loci for myotonic dystrophy and ABH-secretion and Lutheran Blood Group', by P.S. Harper, M.L. Rivas et al, submitted to *American Journal of Human Genetics* 1971.

C.107 — Photocopy typescript draft and figures

C.108 — Renwick's comments on the draft article and miscellaneous typescript material

Typescript material includes draft abstract 'Mohr's linkage hat-trick confirmed: enables prenatal diagnosis of myotonic dystrophy from secretor phenotype of fetus' by Renwick, S.E. Bundey, M.A. Ferguson-Smith and M.M. Izatt for the 4th International Congress of Human Genetics, Paris 1971 (see also C.133), and 'ABO secretor status of the fetus in early pregnancy - a genetic marker identifiable by amniocentesis' by P.S. Harper and colleagues.

C.109 — Correspondence *re* papers by Renwick *et al*, 1971; pedigree charts

C.110 — Data, tables etc.

C.111, C.112 — 'DM1 Peds + patients (Letters etc)'

Correspondence 1969-1971. That at C.111 chiefly with A.E.H. Emery and S.E. Bundey *re* collaborative work on DM.

2 folders.

C.113 — 'DM1 Non-independence'

Pages of typescript drafts; computer print-out.

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C.114, C.115 'DM 3-point'

Chiefly *re* 'An analysis procedure illustrated on a triple linkage of use for prenatal diagnosis of myotonic dystrophy', by Renwick and D.R. Bolling, *J. Med. Genet.*, vol 8 (1971) (see also C.103).

C.114 Photocopy typescript draft; references, figures etc.

C.115 Pedigree charts etc.

C.116-C.129 DM1 pedigrees

Retained in original folders.

14 folders.

C.130, C.131 'DM1 Peds of Dr Bundey'

2 folders.

C.132 'DM1 literature'

Chiefly offprints of work of P.S. Harper and S.E. Bundey (includes correspondence), 1970-1992.

C.133, C.134 Contents of untitled folder

Includes at C.133 'The secretor linkage group in man' by Renwick, submitted to *American Journal of Human Genetics* August 1971, and extensively corrected typescript draft of 'Mohr's hat-trick confirmed' (see also C.108).

2 folders.

C.135-C.140 DR, ?Diabetes

6 folders.

Research, C.1-C.922

C.141 DW, Dwarfism

C.142 EA, Epithelioma adenoides

C.143-C.148 EB, Epidermolysis bullosa

6 folders.

C.149 EC, Ectrodactyly

C.150-C.168 EL, Elliptocytosis

This was a major research interest of Renwick's in the 1960s.

EL1 appears to be elliptocytosis with a close linkage to the Rhesus locus, and EL2 and EL3 elliptocytosis where this linkage is absent.

C.150-C.156 'EL2B17A etc Bannerman'

Material *re* 'The hereditary elliptocytosis: clinical and linkage data' by Renwick and R.M. Bannerman, *Annals of Human Genetics* vol 26 (1962).

C.150 Typescript draft with extensive manuscript corrections

C.151 Corrected proofs

C.152 Correspondence with R.M. Bannerman, J. Schulze and others 1959-1962

C.153 Appendices and data therefor

Research, C.1-C.922

C.154, C.155 Pedigree charts

2 folders.

C.156 'Notes on hereditary elliptocytosis' ?by Bannerman, 24pp typescript, ca 1959

C.157 'EL LIT PRECODED'

C.158, C.159 'Ellipto families'

Original folder retained at C.158.

2 folders.

C.160-C.163 EL1 pedigrees

Retained in original folders. Mostly annotated offprints.

4 folders.

C.164-C.168 EL2 and EL3 pedigrees

Retained in original folders. Mostly annotated offprints.

5 folders.

C.169 EN, En a antigen

C.170-C.179 EO, Ectronychia

Chiefly material *re* 'Anonychia with ectrodactyly: clinical and linkage data' by D.H. Lees, S.D. Lawler, Renwick and J.M. Thoday, *Annals of Human Genetics*, vol 22 (1957), 69-79.

C.170 'Ectronychia - Correspondence'

Correspondence *re* cases 1955-1957; 'A pedigree of congenital anonychia', 2pp typescript n.d.

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C.171 'Ectronychia 1 & 3'

Chiefly correspondence *re* cases 1956-1957. Includes photographs.

C.172 'Ectronychia - Rotherham'

Pedigree charts and other information *re* cluster of families in Rotherham, Yorkshire.

C.173,C.174 'Ectronychia - photos and palm prints'

2 folders.

C.175 'Ectronychia - appendices'

C.176 'Ectro copy'

C.177 'Ectro A+B analysis'

C.178, C.179 EO pedigrees

Retained in original folders. Include extensively annotated second pages of offprints of 'Anonychia with ectrodactyly'.

2 folders.

C.180 GA, Galactosaemia

C.181 GB, 'Jobbins' antigen

C.182 GE, Ge antigen

C.183 GI, Giant WBC

Research, C.1-C.922

C.184 GL, Renal glycosuria

C.185 GO, Gonzalez antigen

C.186-C.189 HB, Hereditary benign intraepithelial dyskeratosis

Chiefly relates to 'Hereditary benign intraepithelial dyskeratosis: a linkage study' by W.S. Pollitzer, Renwick *et al*, 1965.

C.186 Early typescript draft; final 6pp typescript draft; reviewer's comments.

C.187 Correspondence with W.S. Pollitzer, 1962-1965.

C.188, C.189 Pedigree charts, data, etc chiefly on the Haliwa community

2 folders.

C.190-C.201 HC, Huntington's chorea

C.190 'HC1 literature'

Includes draft of 'Genetic linkage studies in Huntington's chorea' by W.S. Volkers *et al*, with offer to Renwick of co-authorship, May 1979.

C.191 'HC1 graphs'

C.192 Drafts of 'Linkage and association studies of Huntington's chorea in relation to fifteen genetic markers' by L. Beckman, *et al*

Renwick's name is on his 'own old copy' but subsequently removed.

Research, C.1-C.922

C.193	Correspondence with L. Beckman, 1971-1973
C.194	'Beckman's data'
C.195-C.201	HC pedigrees 7 folders.
C.202	HE, Haemolytic anaemia
C.203	HM, 'Holt-Oram'
C.204	HU, Hunter antigen
C.205	H22, unidentified Danish data.
C.206	H33, unidentified
C.207-C.212	ICB, Bullous ichthyosiform erythroderma 6 folders.
C.213	II, unidentified
C.214-C.217	INH, unidentified 4 folders.
C.218	KA, Kartagener's Syndrome

Research, C.1-C.922

C.219 KN, Koilonychia

C.220, C.221 LA, Leukocyte antigens

Includes correspondence with J.J. van Rood, 1961-1962 (C.220).

2 folders.

C.222 LE, Ectopia lentis

Includes data from Johns Hopkins Hospital 1962.

C.223 LI, Lipoma

C.224 LS, Laustia

C.225 MA, Marfan's Syndrome

C.226-C.232 MD, Muscular dystrophy

C.226-C.230 'MD1SN1/PE1'

Chiefly *re* paper by L.J. Schneiderman *et al*, 'Genetic studies of a family with two unusual heterozygous conditions: muscular dystrophy and Pelger-Huet Anomaly. Clinical, pathologic and linkage considerations *re*-visited' for submission to the *American Journal of Human Genetics*.

Original folder retained at C.226.

C.226 Drafts of article, with Renwick as co-author.

C.227 'Genetic studies of a family with two unusual autosomal dominant conditions: muscular dystrophy and Pelger-Huet Anomaly. Clinical, pathologic and linkage considerations'

Research, C.1-C.922

by L.J. Schneiderman *et al*

Photocopy typescript.

C.228 Correspondence with Schneiderman, 1968-1970

C.229, C.230 Data, including computer print-out

2 folders.

C.231 'Muscular dystrophy coding'

C.232 'MDPDM3I'

Includes correspondence 1963, 1967

C.233, C.234 MI, Milroy's Disease

Includes correspondence 1959, 1961; photocopy typescript of 'Congenital hereditary lymphedema' (no author given); pedigree charts etc.

2 folders.

C.235 MT, Mt a antigen

C.236-C.240 MX, Monilethrix

Chiefly *re* 'Linkage data on Monilethrix' by Renwick and M.M. Izatt, *Cytogenetics and Cell Genetics* vol 47 (1988).

C.236 Typescript drafts; proof with manuscript corrections. 1987.

C.237 'Monilethrix 1+ 2'

Data and pedigree charts.

Research, C.1-C.922

C.238, C.239 'Monilethrix 1+ 2 Pedigree & Appendix'

At C.238 are referees' comments on draft paper 'Linkage data on Monilethrix'.

Original folder retained at C.238.

2 folders.

C.240 'Monilethrix reprints'

C.241-C.247 NE, Neurofibromatosis

C.241, C.242 'NE1 Neurofibromatosis'

Includes literature from LINK, a neurofibromatosis charity, 1980s-1992.

2 folders.

C.243, C.244 'Neurofibroma'

Includes correspondence (C.243).

2 folders.

C.245-C.247 'Neurofibroma coding'

C.245 Correspondence with A.G. Steinberg and A.P. Mange, 1962

C.246, C.247 Pedigree charts, data

2 folders.

C.248 Correspondence with A.K. Sayed and R.M. Bannerman, 1976-1977

Found loose.

Research, C.1-C.922

C.249 'NEAEE1B', ?Acoustic neuromata

C.250-C.338 NP, Nail-Patella Syndrome (Hereditary osteo-onycho-dystrophy/dysplasia)

This was Renwick's earliest and one of his most extensive studies. The material was filed by Renwick in a series of boxfiles and this arrangement has been followed. Within the boxfiles the bulk of the material was contained within titled folders and these titles have been reproduced in the catalogue entries.

Renwick co-authored a number of articles on nail-patella syndrome, including 'Genetical linkage between the ABO and Nail-patella loci', with S.D. Lawler, *Annals of Human Genetics* vol. 19 (1955); 'Some genetical parameters of the Nail-Patella locus', with M.M. Izatt, *Annals of Human Genetics* vol. 28 (1965); 'Male and female recombination fractions for the nail-patella : ABO linkage in man', with J. Schulze, *Annals of Human Genetics* vol. 28 (1965).

C.250-C.260 'Nail patella - old'

Contents of boxfile so inscribed.

C.250 Contents of Renwick's ring binder used for notes on the literature and bibliographical references. Latest reference 1956.

Ring binder not retained. At C.251 is material found loose at back of binder.

C.251 Notes on the literature and bibliographical references found loose with C.250

C.252 'P paper'

Contents of folder so inscribed: correspondence 1958; 'The use of electronic computers in linkage' by H. Simpson, n.d.

C.253-C.256 'Patella-ABO iteration'

Contents of folder so inscribed.

Research, C.1-C.922

C.253	'Further families showing linkage between the ABO and Nail-patella loci with no evidence of heterogeneity' by S.D. Lawler, Renwick and L.S. Wildervanck 7pp typescript.	
C.254-C.256	Data and calculations 3 folders.	
C.257-C.260	'NP lit' Offprints, bibliographical references. 4 folders.	
C.261-C.283	'Old NP' and 'NP1.A-NP1.F' Contents of boxfile so inscribed.	
C.261	'Paper: copy of modifier paper' Draft figures for 'Modification in nail-patella syndrome', for *Annals of Human Genetics*.	
C.262-C.265	'P2 [...]' Original folder retained at C.262.	
C.262	'Info from patients' (correspondence 1954-1955); pedigree charts	
C.263	'Medical correspondence' 1954-1957; 'Various medical + hospital letters' 1954, 1958	1954-1958
C.264	Miscellaneous correspondence 1963-1987.	1963-1987
C.265	Family information etc.	

Research, C.1-C.922

C.266-C.269	'P3. Details of Affected Members' Includes correspondence with doctors and patients. Original folder retained at C.266. 4 folders.	1954-1956
C.270-C.273	'NP1.B [...] P3' Correspondence with doctors *re* patients. At C.273 is annotated copy of 'Genetical linkage between the ABO and Nail-patella loci' (marked 'Update July 1968'). 4 folders.	1954, 1968
C.274	'P4 NP1.C5L'	
C.275, C.276	'P.5. Browne' 2 folders.	
C.277	'P.6. [...]' Original folder retained.	
C.278	'P7 NP1.E.' Correspondence with doctors and patients.	1954-1957
C.279	'P7 [...]' Pedigree charts etc. Original folder retained.	
C.280	'P8 [...]' Original folder retained.	

Research, C.1-C.922

C.281-C.283	'N-P Clinical details appendix' Pedigree charts and family data. 3 folders.	1954, 1955
C.284-C.301	'NP CODING + CORRELATIONS + MAIL + Pp 1+2' Contents of boxfile so inscribed.	
C.284	'NP paper 1' Miscellaneous tables, calculations, typescript pages etc. The original folder is extensively annotated and has been retained.	ca 1964
C.285	'Age (for paper 2 only)' Draft appendices and tables for 'The influence of sex and of age on recombination between the ABO and Nail-Patella loci' by Renwick and J. Schulze, ca 1964.	
C.286-C.288	'Proofs + changes + checks'	
C.286	Photocopy typescript and proof of 'Some genetical parameters of the Nail-Patella locus', with M.M. Izatt, *Annals of Human Genetics* vol. 28 (1965)	
C.287	Photocopy proof of 'Male and female recombination fractions for the nail-patella:ABO linkage in man', with J. Schulze, *Annals of Human Genetics* vol. 28 (1965). See also C.335.	
C.288	Correspondence; replacement typescript pages etc.	
C.289-C.291	'Congress NP + ABO esp. Male/Female' Miscellaneous material *re* male and female recombination	

Research, C.1-C.922

fractions, including tables of data; brief correspondence 1962-1964.

3 folders.

C.292, C.293 'Mail (Patella-nail syndrome)'

C.292 Correspondence 1954-1966

C.293 Family information; photographs

C.294 'Families ABO'

Includes pedigrees.

C.295 'NP ratios'

C.296 'Nail-Patella. Correlations. Nails:elbows OLD'

C.297-C.300 'NP Clinical Correlations'

4 folders.

C.301 'New correlations'

C.302-C.329 'NP1.G [...] W AA [...] AF [...]' and 'NP1SC'

Contents of boxfile so labelled.

Original label retained at C.302

C.302, C.303 'P.9=G [...] NP1.G3L'

Includes correspondence with patients and doctors, 1955; family information including pedigree charts.

Original folder retained at C.302.

/...

Research, C.1-C.922

/... 2 folders.

C.304 'NP H'

C.305 'NP1.K3L'

Correspondence with patients, doctors and hospitals 1955-1956,1962; family information

C.306 'NP1.L'

Correspondence, chiefly with L.S. Wildervanck, 1956, 1975; annotated copy of L.S. Wildervanck, 'Hereditary congenital anomalies of bones and nails in five generations', *Genetica* vol 25 (1950); etc.

C.307 'M+N+O'

Chiefly correspondence with patients and J. Mosbech, University Institute of Human Genetics, University of Copenhagen, including *re* visit to Denmark, 1956-1957.

C.308 'NP1 P Q R P paper'

Typescript draft of 'Linkage test involving the P blood group locus and further data on the ABO:nail patella linkage' by S.D. Lawler, Renwick, M. Hauge, J. Mosbech and L.S. Wildervanck; draft tables etc; correspondence 1956.

C.309 'P [...]'

Correspondence *re* patients 1956.

C.310 'Q Nail-Patella [...] NP1.Q3L'

Correspondence with patients and doctors 1957-1968; family information including pedigree chart.

Research, C.1-C.922

C.311 'Nail patella R'

Correspondence with patients and doctors 1957-1964; pedigree chart.

C.312 'NP [...] NP1.S32 + NP1AF [...]'

Correspondence from C.A. Clarke 1960, 1964, 1965; pedigree charts.

C.313 'Nail-patella Pedigree NP1.T3I.Z.'

Correspondence *re* patients, 1961, 1968; family information including pedigree charts.

C.314 'NP1.W3I.Z.'

Correspondence *re* patients 1962; family information.

C.315 'NP1.X3I.Z.'

Correspondence *re* patients 1962-1967; family information.

C.316 'NP Z NP1.Z3I.Z.'

Brief correspondence *re* patients 1961; family information.

C.317 'NP AB NP1AB3I.Z.'

Brief correspondence *re* patients 1963; family information.

C.318 'NP [...] NP1AC3I.Z. [...]'

Correspondence *re* patients 1954, 1956, 1964; family information including pedigree charts.

C.319 'NP1BN3C.Z.'

Research, C.1-C.922

Correspondence *re* patients 1962, 1964; family information including pedigree charts.

C.320 'NP1D1 [male]:[female] Schleutermann'

Includes comments on typescript of draft of D.A. Schleutermann *et al* 'Linkage of the loci for the Nail-Patella Syndrome and adenylate kinase'.

C.321 'NP1GD1/ GE1/ Amer. J. hum. Genet'

Correspondence 1963-1970; draft paper by R.S. Sobel *et al* 'A second family with the mail-patella syndrome [...], with Renwick's referee's comments.

C.322 'Nail patella Goodall'

Correspondence *re* paper by M. Goodall, 'The Nail-Patella Syndrome: clinical and linkage data', including typescript draft inscribed 'Superceded', 1960-1962

C.323 'NP1MY'

Two letters only 1959, 1970.

C.324 'NP PFANDER. NP1PF3/'

Correspondence etc with U. Pfänder, Switzerland, *re* results on nail-patella syndrome, 1954.

C.325 'NP1PYP/ PILLAY'

Correspondence etc with V.K. Pillay, University of Singapore, *re* nail-patella syndrome, 1964.

C.326 'NP1SAL/ Sharma'

Re draft paper by J.C. Sharma, 'Nail-Patella Syndrome in an Indian family: clinical and linkage data'.

Research, C.1-C.922

C.327 'Nail Patella SDL'

Miscellaneous correspondence and papers on nail-patella syndrome 1956-1964.

1956 correspondence *re* visit to the Netherlands by Renwick and S.D.Lawler; also includes ts draft lecture on the Nail-Patella Syndrome.

C.328 'NP1/025 Nu input listing'

Computer print-out.

C.329 Family data, pedigree charts from the Library of Congress, found loose.

C.330-C.337 'NP1U1-Y1'

Contents of boxfile so labelled.

C.330-C.332 Family information, pedigree charts, related correspondence etc.

C.330 '[...] NP1U13I.Z'

C.331 'NP1U23I.Z'

C.332 'NP1U33I.Z'

C.333 'NP.Y1 [...]'

Miscellaneous correspondence 1956-1964; family information; etc.

C.334 'Williams, Gail R. The Nail-Patella Syndrome'

Typescript of G.R Williams, 'The Nail-Patella Syndrome: a hereditary nephropathy?', 1964.

Research, C.1-C.922

C.335	'Paper 2' Photocopy typescript draft with manuscript and typescript corrections of 'Male and female recombination fractions for the Nail-Patella:ABO linage in man' by Renwick and J. Schulze; manuscript calculations, notes etc. ca 1964. See also C.287.	
C.336	'NP appendices + Peds ABO'	
C.337	'Nail-Patella analysis Not ABO' Correspondence with J. Schulze, 1960; data.	
C.338	Correspondence found loose	1970, 1993-1994
C.339	NV, Nevoid basal cell carcinoma Correspondence, with material sent by D.E. Anderson.	1967-1968
C.340	NY, Nystagmus	
C.341	OA, Optic atrophy Brief correspondence 1965-1966; data etc.	
C.342, C.343	OI, Osteogenesis imperfecta 2 folders.	
C.344	OP, Oculo-pharyngeal myopathy	
C.345	OT, Otosclerosis	

Research, C.1-C.922

C.346-C.348 PA, Pachyonychia

3 folders.

C.349 PD, Polydactyly

C.350-C.362 PE, Pelger-Huet Anomaly

C.350 'Pelger B'

Includes correspondence *re* patients 1962-1964.

C.351-C.362 PE pedigrees

Includes correspondence, chiefly with doctors.

Retained in orginal folders.

12 folders.

C.363-C.377 PK[U], Phenylketonuria

This was a research interest of Renwick's from the late 1950s. See also C.913-C.916.

Much of the material is *re* Renwick's article 'Phenylketonuria: a linkage study using phenylalanine tolerance tests', *American Journal of Human Genetics*, vol 12 (1960), 287-322 and 'Studies on blood group linkage in Phenylketonuria' by D.Y.-Y. Hsia and A.G. Steinberg, in the same issue.

C.363, C.364 'PKU Old Peds (Rough)'

Pedigree charts.

Most form part of numbered sequence 56-100.

2 folders.

Research, C.1-C.922

C.365-C.367	Set of three notebooks Used for pedigree notes on family members.	1957-1958
C.365	Softback jotter Used from the front and the back January-April.	1957
C.366	Card cover notebook Used from the front and the back May-December	1957
C.367	Hardback notebook Used from the front and the back December 1957-August 1958.	1957-1958
C.368	'Results of O Tol tests' Includes brief correspondence *re* patients 1956-1957, data, graphs and 8pp typescript 'Rate of utilisation of phenylalanine' annotated 'Biochemistry Seminar 1957'.	1956-1957
C.369	'ABO/OK' and 'Hp x PKU' Data and calculations, 1959-1961.	1959-1961
C.370	'Phenylalanine + tyrosine methods + letters (Hsia + Steinberg)' Correspondence, chiefly with D.Y.-Y. Hsia, Director of Research, Children's Memorial Hospital, Chicago, 1957 and 1959; instructions for preparation of L-phenylalanine and tyrosine.	1957,1959
C.371	'Phenylalanine correspondence (Except Hsia and Sternberg)' Correspondence, includes letters *re* publication of' 'Phenylketonuria: a linkage study using phenylalanine tolerance tests'.	1957-1966

Research, C.1-C.922

C.372 'PHE paper'

Typescript of 'Studies on blood group linkage in Phenylketonuria' by D.Y.-Y. Hsia and A.G. Steinberg, *American Journal of Human Genetics* vol 12 (1960); miscellaneous pages for appendices.

C.373 'PKU computer' 1960-1961

Chiefly correspondence with J. Schulze *re* results of LOD calculations.

C.374, C.375 Pedigree charts and information

2 folders.

C.376, C.377 'Phenylketonuria reprints'

Includes a little correspondence 1960, 1979, and typescript material at C.376.

2 folders.

C.378 PO1, Familial polyposis coli

C.379 PO2, Gardner's Syndrome

C.380 PR, Pre-auricular sinus

Includes correspondence 1965, 1967

C.381 PV, Acro-Pectoro-Vertebral Dysplasia

C.382, C.383 PX, Xeroderma pigmentosum

2 folders.

Research, C.1-C.922

C.384-C.386	PXE, Pseudoxanthoma elasticum Family pedigree charts. 3 folders.	
C.387	RA, Red cell antigen	
C.388-C.391	RDD, Honeycomb retinal degeneration of Doyne Material chiefly *re* 'Honeycomb retinal degeneration of Doyne: analysis of linkage data' by W.G. Pearce, R.G. Edwards and Renwick.	
C.388	Correspondence with W.G. Pearce, 1967-1968; drafts of article.	
C.389	Photocopy manuscript appendices	
C.390	Patient information, 1965	
C.391	Miscellaneous material	
C.392	RDM, Pseudo-inflammatory macular dystrophy Brief correspondence 1969-1970; pedigree charts etc.	
C.393	RN, Radicular neuropathy Correspondence with D.C. Wallace; pedigree charts and data.	1965, 1967
C.394	RP, Retinitis pigmentosa Chiefly pedigree charts.	

Research, C.1-C.922

C.395, C.396 SC, Spastic paraplegia

Pedigree charts, with associated correspondence, 1966, at C.396.

Retained in orignal folders.

2 folders.

C.397-C.402 SF, Symphalangism (Stiff Fingers)

C.397-C.400 'SF See other folder for markers [...]'

Chiefly pedigree charts.

Original folder retained at C.397.

4 folders.

C.401 'SF/markers'

Correspondence 1964,1966; data.

C.402 'Final LODS SF + curves'

C.403 SH, Short palate

Pedigrees; typescript notes for lecture ca 1961 ; etc

C.404, C.405 SP, Small Patella Syndrome

C.404 Correspondence 1953-1990

Includes 'A variation of the nail-patella syndrome' by J.E. Scott *et al*, with request for Renwick's advice thereon, 1977.

C.405 Pedigree charts etc

Research, C.1-C.922

C.406, C.407 SW, Swann antigen

Includes correspondence with T.E. Cleghorn, Deputy Medical Director, South London Transfusion Centre, 1963

2 folders.

C.408-C.410 SY, Syndactyly with hypertelorism (Mohr's Syndrome)

C.408, C.409 'Syndactyly + hypertelorism'

Original folder retained at C.408.

2 folders.

C.410 '[...] McColl (Syndactyly etc)'

Includes letters to Renwick about travel to Norway 1962.

C.411 SZ, unidentified

C.412-C.432 SSE, Self-healing Squamous Epithelioma

This material relates to studies of Self-healing Squamous Epithelioma and Multiple Self-healing Squamous Epithelioma (condition identified by M.A. Ferguson-Smith).

Most of the material is photocopy.

C.412 'SSE 1971'

Includes correspondence from Ferguson-Smith 1970; typescript draft 'Multiple Self-healing Squamous Epithelioma' by Ferguson-Smith, D.C. Wallace, Z.H. James and Renwick; pedigree charts, etc.

C.413 'SSE Linkage Calcns (hand)'

Includes 'Interim report on a study of Multiple Self-healing Squamous Epithelioma of Malcolm Ferguson-Smith'.

Research, C.1-C.922

C.414, C.415 'SSE Correspondence'

Correspondence to D.C. Wallace from doctors and patients, 1966-1967.

2 folders.

C.416 'SSE Calculations & notes'

C.417 'SSE Refs & H. reports'

C.418 'SSE by BECC'

Summary of work on Self-healing Squamous Epithelioma at Glasgow, 1969; photocopy family trees and geneaological information.

C.419-C.422 'SSE Members personal records complete'

Photocopy medical records.

4 folders.

C.423, C.424 'Blue book'

Photocopy manuscript notes on family information, including pedigree charts. Possibly photocopy pages of notebook.

2 folders.

C.425-C.432 Pedigree charts etc.

C.425 'SSEAR - not for linedex [...]'

Original folder retained.

C.426 'SSEDL5I.Z'

Research, C.1-C.922

C.427-C.429	'SSEGE' 3 folders.	
C.430	'SSEGR5I.Z'	
C.431	'SSEMD5I.Z'	
C.432	'SSESE5I.Z'	
C.433	TB, Thyroxine binding	
C.434	TE, Telangiectasia Includes correspondence 1964.	
C.435	TF, Transferrin locus Typescript draft of E.B. Robson *et al*, 'Evidence for linkage between the transferrin locus and the serum cholinesterase locus in man', with Renwick's comments thereon.	1965
C.436	TO, Torkildsen antigen	
C.437	TP, Triosephosphate isomerase deficiency	
C.438, C.439	TS, Tuberous sclerosis	1980s
C.438	'Tuberous sclerosis and ABO', Letter to *The Lancet* by Renwick, 1987 Typescript draft and extensively corrected typescript draft. The letter was not accepted for publication.	

Research, C.1-C.922

C.439	Miscellaneous material on Tuberous sclerosis Incudes material of the Tuberous Sclerosis Association, 1984.	
C.440-C.459	TY, Tylosis	
C.440-C.441	'Tylosis General'	
C.440	Correspondence, chiefly with doctors *re* possible cases	1954-1961
C.441	Family information, including pedigree charts; background information; bibliographical references	
C.442	'Tylosis Leif'	
C.443-C.456	Pedigree charts etc Original folders retained. 14 folders.	
C.457-C.459	'Tylosis Liverpool' Correspondence and papers *re* Liverpool project to follow up 1958 study of a family with a history of tylosis.	
C.457	'Carcinoma of the Oesophagus with tylosis', 12p typescript + tables	
C.458	Correspondence, chiefly with C.A. Clarke and P.S. Harper, 1962-1969	
C.459	Family information, etc	

Research, C.1-C.922

C.460	WA, Waardenburg's Syndrome Includes correspondence 1956	
C.461	WE, antigen Vel	
C.462-C.465	WM, White Mouth (White sponge naevus) Chiefly *re* 'White sponge naevus of the mucosa: clinical and linkage data' by W.G. Browne, M.M. Izatt and Renwick, *Ann. Human. Genet., Lond.* vol 32 (1969).	
C.462	Corrected proofs; typescript draft of appendix 1; correspondence *re* publication, 1968, 1970	
C.463	Correspondence *re* cases of White sponge naevus and preparation of the article	1961-1968
C.464	Data for appendix to article	
C.465	Pedigree charts etc.	
C.466-C.500	X chromosome-linked main condition	
C.466-C.469	XA and XB, Haemophilia Pedigree charts, correspondence 1960-1975, data etc. Correspondence at C.468 relates to joint publication by Renwick and J. Schulze 'An analysis of some data on the linkage between Xg and colour-blindness in man' (see C.470-C.472). 4 folders.	
C.470-C.479	Xg : cb Contents of series of folders so inscribed.	

Research, C.1-C.922

C.470-C.472 'Paper 1. TOP'

Chiefly relates to Renwick and Schulze, 'An analysis of some data on the linkage between Xg and colour-blindness in man', submitted to the *American Journal of Human Genetics.*

See also C.468.

C.470 'An analysis of some data on the linkage between Xg and colour-blindness in man'

16pp photocopy typescript; corrected proof.

C.471 Correspondence 1963-1964

Includes draft of 'X chromosome mapping of genes for Red-Green colour blindness and Xg a' by C.E. Jackson and W.E. Symon, relating to Renwick and Schulze's paper.

C.472 Draft tables, figures etc.

C.473-C.475 'cb x Xg'

C.473 Correspondence, chiefly with C.E. Jackson 1962-1963

Correspondence relates to 'X chromosome mapping of genes for Red-Green colour blindness and Xg a' by Jackson and Symon.

C.474, C.475 Pedigree charts etc

2 folders.

C.476 'LODS CB x Xg Jackson'

Correspondence 1963-1964, and data *re* 'X chromosome mapping of genes for Red-Green colour blindness and Xg a'.

Research, C.1-C.922

C.477-C.479 'Ha x Xg'

Material relating to 'The linkage relations of haemophilia A and haemophilia B (Christmas disease) to the Ig blood group system' by S.H. Davies *et al* (Renwick not listed as co-author).

C.477 Drafts of 'The linkage relations of haemophilia A and haemophilia B...'

C.478 Correspondence, chielfy with R. Sanger and R.R. Race, 1963

C.479 Tables, data etc

C.480 XD, Muscular dystrophy

Includes correspondence 1962-1963, 1973 (refers to lecture to be given by Renwick at Taunton, Somerset)

C.481-C.484 XF, Fabry's disease

Chiefly *re* 'Linkage relationships of the Angiokeratoma (Fabry) locus' by A.W. Johnston, P. Frost, G.L. Spaeth and Renwick

Earlier title appears to be 'Analysis of linkage between the angiokeratoma (Fabry) locus and the Xg and colour blindness loci'.

C.481 Typescript drafts (under the two different titles) with manuscript corrections; miscellaneous pages of draft, figures and tables

C.482 Correspondence with co-authors, 1967-1969, 1979

C.483 Information on families, including pedigree charts

Research, C.1-C.922

C.484	Printed material on Fabry's Disease	
C.485	XH, Haemophilia and colour-blindness	
C.486	XI, X-linked ichthyosis	
C.487	XK, Reifenstein Syndrome	
C.488, C.489	XO, Ocular albinism	
C.488	'Ocular albinism (Dr Fialkow) Seattle' Includes correspondence with P.J. Fialkow and draft and offprint of of 'Measurable linkage between ocular albinism and Xg' by Fialkow *et al.*	1965-1966
C.489	Pedigree charts etc.	
C.490	XP1, Norrie's Disease	
C.491	XPK, Phosphorylase kinase defect and colour blindness loci Includes correspondence with F. Huijing 1972.	
C.492	XPR, Lesch-Nyhan Syndrome Includes correspondence 1972.	
C.493	XR1, X-linked retinitis pigmentosa	
C.494	XR2, X-linked Retinoschisis Includes correspondence 1970-1972.	

Research, C.1-C.922

C.495-C.500 Miscellaneous 'X' pedigree charts found loose

6 folders.

C.501 'Y' pedigree charts, found loose

C.502-C.504 'Z' pedigree charts, found loose

3 folders.

C.505-C.560 PEDIGREES: CHROMOSOMAL ABNORMALITY

C.505-C.517	F, Translocation
C.518-C.534	J, Jumbo satellite or any long variant
C.535-C.539	U, Short arm or any deletion
C.540-C.560	V, Variant chromosome

C.505-C.517 F, Translocation **1969-1972**

C.505 Pedigree charts found loose

C.506-C.517 Pedigree charts; annotated offprints

Includes material *re* Down's Syndrome.

12 folders.

C.518-C.534 J, Jumbo satellite or any long variant

C.518-C.527 Pedigree charts 1968-1972

Retained in original folders.

Research, C.1-C.922

10 folders.

Much of the pedigree information here was supplied to Renwick by M.A. Ferguson-Smith at Glasgow University.

C.528-C.534 'LODS of JN1AN' 1967

Contents of boxfile so inscribed: computer printouts.

7 folders.

C.535-C.539 U, Short arm or any deletion

Pedigree charts, with a little associated correspondence.

5 folders.

C.540-C.560 V, Variant chromosome

C.540 VA and VD pedigree charts

C.541 VG pedigree charts etc

C.542-C.544 'VMQLN1H'

3 folders.

C.545 'VM1GN3I'

C.546 'VSMSD3IVRF'

C.547-C.552 'V11'

Material relating to 'Probable assignation of the Duffy blood group locus to Chromosome 1 in man' by R.P

Research, C.1-C.922

Donahue, W.B. Bias, V.A. McKusick and Renwick, *Proceedings of the National Academy of Sciences*, 1968.

C.547 — 11pp photocopy typescript plus legends for figures

C.548-C.551 — Pedigree charts etc.

4 folders.

C.552 — 'VII recent'

C.553 — 'V12CL1/ Cath. Bowen's ped'

Includes exchange with C.L. Bowen, 1973.

C.554-C.556 — 'V2QBN'

Material *re* 'Inherited constriction fragility and the possible assignment of the red cell acid phosphatase locus to Chromosme 2' by M.A. Ferguson-Smith and Renwick.

C.554 — Typescript drafts of paper

C.555 — Tables and figures

C.556 — Miscellaneous pedigree charts, figures etc

C.557, C.558 — 'V3'

2 folders.

C.559, C.560 — 'V9' — 1972-1973

Pedigree charts and related correspondence.

2 folders.

Research, C.1-C.922

C.561-C.619 **PEDIGREES: NON-DISEASE**

C.561-C.568 Published pedigrees

C.569-C.619 Unpublished pedigrees

C.561-C.568 **Published pedigrees** **1966-1973**

Contents of Renwick's folders. Chiefly offprints and thermo- and photocopies of articles.

C.561 '1966'

C.562 '1967'

C.563 '1968'

C.564 '1969'

C.565 '1970'

C.566 '1971'

C.567 '1972'

Includes draft papers sent to Renwick for comment by L.R. Weitkamp and E.W. Lovrien.

C.568 '1973'

Research, C.1-C.922

C.569-C.619 **Unpublished pedigrees**

These pedigrees form a sequence 9A-9N.

C.569 '9A...ES.A.' 1961

Correspondence with N.E. Morton.

C.570 '9G...3R.G' ca 1962

C.571-C.581 9J pedigrees

Original folders retained.

11 folders.

C.582-C.594 9K pedigrees 1964-1965

Found loose.

These pedigrees, chiefly of families of overseas origin, appear to have been received from the Medical Research Council's Blood Group Reference Laboratory.

13 folders.

C.595-C.612 9L pedigrees

This material was found in a boxfile also inscribed 'Lister [Institute of Preventive Medicine] peds'. All the pedigrees are thermocopy.

18 folders.

C.613-C.618 '9M...Lamm' 1968-1970

These pedigrees of Danish and German families were supplied by L.U. Lamm of the University of Aarhus, Denmark, 1969-1970.

6 folders.

Research, C.1-C.922

C.619 '9ND..14 Dr Anderson'

C.620-C.688A LOGARITHM OF ODDS 1960s-1973, n.d.

The Logarithm of Odds (LOD) score method for testing linkage was first proposed by N.E. Morton in 1955 although the underlying principles were previously set out by C.A.B. Smith. It is a statistical measure of the likelihood that two genetic markers occur together on the same chromosome and are inherited as a single unit of DNA. The calculation of LODs requires generational pedigree analysis, with higher LODs reflecting greater probability of linkage. A score of greater than +3 is generally taken as evidence for linkage.

In 1955 Renwick and S. Lawler published a series of family trees demonstrating linkage between the ABO blood groups and the Nail-Patella Syndrome. The first calculations had to be done by hand. Renwick was a pioneer in devising computer programs for calculating LODs. In 1961 he and Jane Schulze wrote a computer program for detailed analysis of pedigrees and calculation of points on a likelihood ratio curve.

C.620-C.639 LODs files

C.640-C.688A Computing

C.620-C.639 LODs files 1960s

C.620 'LODS A-Az'

Ring binder so labelled. Inscribed inside front cover 'Galton Lab University College'.

C.621 'LODS B-Ca'

Ring binder so labelled.

C.622 Untitled ring binder

Used for LODs from Cd.

Research, C.1-C.922

C.623 'LODS Da'

Ring binder so labelled.

C.624 'LODS E-G'

Ring binder so labelled.

C.625 'LODs H-L'

Ring binder so labelled.

C.626 'LODs M'

Ring binder so labelled.

C.627 'LODs N-R'

Ring binder so labelled.

C.628 'LODs S-W'

Ring binder so labelled.

C.629 Untitled ring binder

Used for LODs Xa-Zy.

C.630 'LODs Numerical 0-'

Ring binder so labelled.

C.631 '020/ - 035/'

Ring binder so labelled.

Research, C.1-C.922

C.632 '#1'

Ring binder so labelled.

C.633 'Greeks'

Ring binder so labelled.

At front is note (not in Renwick's hand) dated 2 August 1967.

Index on inside back cover.

C.634 'H-S then I-9'

Lever-arch file so labelled.

C.635-C.639 'LODS CHROMOSOMES'

5 folders.

C.640-C.688A **Computing** **1957-1973, n.d.**

C.640-C.650 **'Jane Schulze + General computing'** 1957-1973

Contents of Renwick's boxfile so inscribed.

The contents were further organised by folder. The material has been retained in the original order and the folder titles reproduced in the catalogue entries.

C.640 'Code' 1970

C.641 'Computer clients' 1971-1973

Includes correspondence *re* use of linkage analysis program.

Research, C.1-C.922

C.642	'Conditions' Includes drafts of 'Notes on the submission of linkage data for LOD score analysis on the computer IBM 7090'.	1960-1961
C.643	'Ascertainment. Formulae and tables' Calculations refer to work of N.E. Morton.	N.d.
C.644	'Carol' Correspondence with C. Erdman, Johns Hopkins Hospital, *re* coding of pedigrees; 'Notes on checking precoding by -CF- program'.	1965-1968
C.645	'From Carol' Correspondence from C. Erdman *re* coding of pedigrees.	1965-1967
C.646	'To compute' Includes calculations on Charcot-Marie-Tooth disease; manuscript notes on 'Running program Mapin'.	1970
C.647, C.648	'Code comparisons' 2 folders.	1970
C.649	'JR PRUN' *Re* PRUNE (also appears as PRUN) computer program. Includes correspondence with D. Bolling. Original folder retained.	N.d.
C.650	'Peds to trace' Correspondence *re* patients.	1957-1971

Research, C.1-C.922

C.651-C.669	**'CDC [from] Linkage Programs [to] Linedex 1972'** Contents of Renwick's boxfile so inscribed. With the exception of a little loose material at C.651 and C.669, the contents were further organised by folder. The material has been retained in the original order and the folder titles reproduced in the catalogue entries.	1957-1972
C.651	Correspondence rom H.R.Simpson	1957
C.652	'Tapes' Includes instructions for 'Unblocking tapes', April 1969; lists of tapes.	1969
C.653	'Leads (Ped Cod etc) + Tape formats' Original folder retained.	N.d.
C.654	'ELI' Material *re* the Manipulator program Eli (or Elim). This may be an abbreviation for 'Elimination round', instructions for which are given in the material.	1969
C.655-C.657	'Curve fitting'	1960-1962
C.655	Correspondence with J. Schulze	1960-1961
C.656	Calculations on the Logarithmic Curve Fitting Program Typescript with manuscript annotations.	1962
C.657	Data for the Logarithmic Curve Fitting Program, etc	ca 1962
C.658	'Loci for Pedcod' Includes exchange with D. Bolling *re* phenotype codes	1963-1965

Research, C.1-C.922

and instructions for coding.

C.659 'Code updatings 1969'

Includes typescript instructions for coding.

C.660 'Prune' 1971

C.661 'Renu' N.d.

C.662-C.664 'Shorts' N.d.

3 folders.

C.665 'Manip' 1969

Refers to Manipulator Study Group.

C.666, C.667 'Linedex Final 1972'

Lists of patients with coding.

2 folders.

C.668 'Alters' 1969

C.669 Material found loose. N.d.

C.670-C.688 **'Bolling programs'** ca 1965-1973

Contents of Renwick's boxfile so inscribed.

The contents were further organised by folder. The folder titles have been reproduced in the catalogue entries.

See also C.1-C.6.

Research, C.1-C.922

C.670 'Inversion project instructions'

Set of notes, one headed 'Method for finding the change in odds incorporating 3 posibilities of inversion'.

C.671 'Inversion project: V21AN/'

C.672 'Inversion project: V21WP/-'

C.673, C.674 'Inversion project: V21WP/048'

2 folders.

C.675 'Invert (US)'

C.676 'Heterogeneity program. Reference'

Includes 'Special instructions for Heterogeneity prog.' by D. Bolling.

C.677 'Data: ABO vs. nail patella heterogen'

C.678 'λ^1: Triangular Prior: Chromosome known'

'Method for finding λ^1 on a triangular prior (when the chromosome is known)'

C.679, C.680 'Computer tapes'

Data; notes *re* storage of data on computer tapes.

2 folders.

C.681, C.682 'Mapin coding sheets'

Original folder retained at C.681.

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Research, C.1-C.922

/...	2 folders.	
C.683-C.685	'Susceptibility ratio program' 3 folders.	
C.686-C.688	Computer centre bulletins Bulletins and newsletters from University of London Computer Centre, University College, Birkbeck College, London School of Hygiene and Tropical Medicine and Queen Mary College. 3 folders.	1967-1970
C.688A	Duplicated typescript flow-charts of 'Probability round' and 'Elimination round' Found loose.	N.d.
C.689-C.732	**LINKAGE** Material found in Renwick's boxfiles so inscribed (in red). The boxfiles bore additional labels or inscriptions and these have been reproduced in the catalogue entries. Within the boxfiles the bulk of the material was contained within titled folders and these titles have also been reproduced in catalogue entries. This material is in part data used by Renwick in calculating LODs. It also includes general material	**1963-1972, n.d.**
C.689-C.694	**'...AA3I.Z. - ...ZZ'** and **'Linkage data'** Contents of boxfile so labelled.	1964-1972
C.689	'Marker x Marker No data' Includes correspondence 1964, 1966, 1969.	1964-1969

Research, C.1-C.922

C.690, C.691	'59B.45Z121'	ca 1965
	2 folders.	
C.692-C.694	'...AA3I.Z. - ...Z3I.Z Lindsten + Lindenbaum'	1971-1972
	Patient information, chiefly from Sweden.	
	3 folders.	
C.695-C.697	**'Coded Peds Listed'**	N.d.
	Contents of boxfile so labelled.	
	Computer print-outs.	
	3 bulky folders.	
C.695	Inscribed on tail-edge 'AA-NE'	
C.696	Inscribed on tail-edge 'NP1-ZZ'	
C.697	Inscribed on tail-edge 'A-Z 1969 only U187'	
C.698-C.707	**'Linkage data unused'**	N.d.
	Contents of boxfile so labelled.	
	10 folders.	
C.708-C.728	**'USA'**	1963-1971
	Contents of boxfile so labelled.	
C.708	'7. Linkage groups'	1963, n.d.
	Includes exchange with John [?], 1963, and 7pp typescript note on 'Measure of distance between two loci'.	

Research, C.1-C.922

This folder may have been part of the sequence presented at C.760-C.766.

C.709 'Bette R.' 1968-1971

Correspondence with E.B. Robson.

C.710 'Blue Book changes' 1969

Photocopy data on patients (by blood group). Also includes letter from Margaret [?], January 1969.

C.711, C.712 'David Bolling thesis' 1969-1970

Brief correspondence; copy of thesis, 58pp.

2 folders.

C.713 'Lab results' ca 1970

Correspondence with D.F. Roberts, 1970.

C.714, C.715 'USA' 1972

Includes printed material *re* computer equipment; correspondence 1971-1972.

2 folders.

C.716 'USA (UK)'

C.717 '15/029' and 'See also F9LGE'

C.718 'Curves' 1968, n.d.

Includes material *re* 'Subroutine LSQPF'.

Original folder retained.

Research, C.1-C.922

C.719, C.720 'Problems etc'

2 folders.

C.721 Print-out found loose.

C.722-C.728 Printed, photocopied and typescript information.

Includes, at C.722-C.725, V.A. McKusick's 'Human Linkage List' (later 'Human Chromosome Mapping Newsletter', then 'The Human Gene Map'), 1972-1981.

7 folders.

C.729-C.732 **'Translocation linkage'** 1968-1970

Contents of boxfile so inscribed.

Chiefly pedigree charts.

4 folders.

C.733-C.827 MAPS AND CLUSTERS 1960-1978

Material found in Renwick's boxfiles so inscribed (in red). The boxfiles bore additional labels or inscriptions and these have been reproduced in the catalogue entries. Within the boxfiles the bulk of the material was contained within titled folders and these titles have also been reproduced in catalogue entries.

Mapping in this context appears not to refer to the mapping of the human chromosomal complement but the narrower sense of determining the relative linear arrangement of of a group of loci presumed to be on the same chromosome.

C.733-C.739 **'Homogeneity especially NP. Curve fitting'** and **'HET'** 1960

Contents of boxfile so inscribed.

Research, C.1-C.922

C.733, C.734	'Heterogeneity test for linkage' Includes correspondence with J. Schulze *re* development of heterogeneity program, 1960-1961; 'Heterogeneity test for linkage data' by C.A.B. Smith, 1961. 2 folders.	1960-1961
C.735, C.736	'Heterogeneity tests NP (IBM 709)' Includes correspondence with J. Schulze *re* development of heterogeneity program, and material from C.A.B. Smith. 2 folders.	1960-1964
C.737, C.738	'New homogeneity test' and 'Change Q to = ...locus II as in table XXJ-M' Includes correspondence with J. Schulze and C.A.B. Smith. Letter 1970, Smith to C.F. Sing, is 5pp typescript on strategies for detecting and estimating linkages. 2 folders.	1960-1970
C.739	'HET' 'Heterogeneity test for linkage'; data.	1964
C.740-C.750	**'Susceptibility ratio'** Contents of boxfile so labelled.	
C.740	'Susceptibility ratio paper' Includes 'Estimation of the female/male ratio of susceptibility to crossing-over in man' by Renwick and D.R. Bolling, 2p typescript.	N.d.
C.741, C.742	'Priors. Chance of linkage detection'	
C.741	Correspondence, chiefly with J.H. Edwards	1963

Research, C.1-C.922

C.742	Miscellaneous calculations etc	
C.743, C.744	'UK priors of ratios' Miscellaneous calculations etc. Original folder retained at C.743 2 folders.	N.d., 1971
C.745	Contents of untitled folder: includes correspondence 1968	1968
C.746	Material found loose *re* calculating susceptibility ratio.	
C.747-C.750	Annotated computer print-outs 4 folders.	
C.751-C.767	**'Theory Meiosis'** Contents of boxfile so labelled.	
C.751-C.755	'Brit. Med. Bull' Chiefly material *re* 'Progress in mapping human autosomes' by Renwick, *British Medical Bulletin* vol 25 (1969), 72. The article was successively titled 'Chromosome mapping in man', Progress in gene locatisation' and 'Progress in mapping human autosomes'.	1969-1970
C.751	Earlier drafts etc	
C.752	Typescript draft under final title.	
C.753	Proof copy	

Research, C.1-C.922

C.754	Correspondence with publishers	1969-1970
C.755	'Genetic linkage in man' by Renwick, extensively corrected photocopy typescript.	
C.756	'Correlation cM and cm'	
C.757	'Limits' Includes brief correspondence with J.H. Edwards.	1964
C.758	'Mapping function: notes, letters caln, printout'.	
C.759	'Mapping: multiple. Also see Bolling thesis + DM1 + mapping function'	1966
C.760	'6. Likelihoods' Typescript accounts of calculating likelihoods. Folder 7 may be at C.708.	
C.761	'8a1 Meiotic methods: introduction'	
C.762	'8a2 Freq. methods'	
C.763	'8a2 Meiotic methods: methods using dose' Includes typescript drafts of 'Outline of methods for assigning linkage groups or single loci to particular chromosomes'.	1967
C.764	'8a3 Meiotic mapping: simultaneous transmission of marker chromosome and marker allele (co-transfer)'	

Research, C.1-C.922

C.765 '8a4 Meiotic methods: using the Aneuploid' 1967

C.766 '8a5 Meiotic methods: disturbance of normal linakge relationships'

C.767 'Map length estimates of chromosomes' 1963

Includes correspondence with J.H. Edwards, including Edwards' 'Indirect estimates of chromosome length'.

C.768-C.793 **'#1-22'**

Contents of boxfile so inscribed.

C.768-C.789 Numbers 1-22.

Chiefly photocopy offprints and other printed material *re* autosomes 1-22, much of it annotated by Renwick. The bulk of the material dates from the 1980s and early 1990s. At C.776 (number 9) is proof of 'Tuberous sclerosis and ABO' by Renwick for the *Lancet*, 1987.

22 folders.

C.790 'Linkage rules + blood-collecting instructions'

Includes 'Renwick's Rules', 1p typescript on collection of blood samples.

C.791 'Map'

Chiefly photocopy articles and other printed material *re* human genome project (including Renwick's survey article of 1971, 'The Mapping of Human Chromosomes', *Annual Review of Genetics*, vol 5).

C.792 'HC1 #4 Onset Age etc' 1972-1977

Includes 'The social effect of Huntington's chorea on reproductive effectiveness' by D.C. Wallace sent to Renwick by the author for comment, 1975.

Research, C.1-C.922

C.793 'Cataract 1981-'

See also C.35-C.69.

C.794-C.800 **'#1'**

Contents of boxfile so inscribed.

C.794, C.795 'Chromosome #1' ca 1970s

Manuscript notes, annotated offprints etc.

2 folders.

C.796, C.797 'Mapping 1 and 16'

Includes 'A provisional exclusion map - the by-product of attempts at deletion mapping' by M.A. Ferguson-Smith, November 1969. Punched computer cards at C.797.

2 folders.

C.798 'PGM3: HLA' and 'See also 9M' 1969-1970

Includes correspondence with L.U. Lamm.

C.799 '029/050' 1970-1971

Includes 'Genetic linkage between a locus for 6-PGD and the Rh locus' by L.R. Weitkamp *et al*, sent to Renwick by the author for comment, 1970.

C.800 '029/051' 1970s

C.801-C.806 **'Mouse maps'** 1970-1974

Contents of boxfile so inscribed: miscellaneous material *re* mouse genetics.

Research, C.1-C.922

C.801-C.805	'Linkage, mouse only' 5 folders.	
C.806	'Mouse linkage and clusters'	1972-1974
C.807-C.815	**'Clustering. Fly etc'** Contents of boxfile so labelled.	
C.807	'Clustering - program + calculations' Computer print-out, data.	
C.808, C.809	'Clustering - Drosophila maps and char. scores. CHROMS I, II, III, IV' 2 folders.	
C.810	'Drosophila chromosomes. Write-up and results' Work of M.R. Munday, 'Disposition of loci on chromosomes - Drosophila melanogaster'.	1973
C.811, C.812	'Drosophila clustering (+others)'	
C.811	Spiral bound reporter's notebook Used for work by M.R. Munday. Paginated 1-37 wirth index at front. Used at back for bibliographical references.	1973
C.812	Annotated offprints.	
C.813-C.815	'Linkage Other Maps. See also Linkage, Mouse' Offprints, some photocopy, and other printed material *re* genetic recombination, some annotated by Renwick.	

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Research, C.1-C.922

/...

3 folders.

C.816-C.826	**'Cluster'** Contents of boxfile so labelled: material *re* work on clustering, including preparation and publication of 'The pattern of loci on Drosophila chromosomes' by Renwick, P.R. McCartney and M.R. Munday, *Heredity* vol 38, 1977.	1968-1978
C.816-C.818	'Clusters'	1968-1976
C.816	Drafts of application for research grant for work on 'Search for various types of clustering of loci on human chromosomes', 1968; correspondence 1968-1976	
C.817	Manuscript notes, background material etc.	
C.818	Bibliographical references etc	
C.819, C.820	'Clusters' Miscellaneous notes, offprints etc. 2 folders.	
C.821-C.826	'Cluster (current)' Chiefly material *re* preparation and publication of 'The pattern of loci on Drosophila chromosomes'.	1976-1978
C.821	Early typescript drafts of 'The pattern of loci on Drosophila chromosomes'	
C.822	Copy 'As sent'; proof; offprint	
C.823	Correspondence *re* publication	1976, 1978

Research, C.1-C.922

C.824-C.826 Data, draft tables, etc

3 folders.

C.827 'Clusters Print-out. Dr McCartney' 1975-1976

Computer print-outs on Drosophila (using Multitab program at London University).

1 box.

C.828-C.892 WORK OF OTHERS 1946-1977

C.828-C.869	H. Harris
C.870-C.882	H. Kalmus
C.882A	V.A. McKusick
C.883-C.892	N.E. Morton

C.828-C.869 H. Harris 1966-1970

Pedigree charts and family data.

The bulk of this material was found in a series of three boxfiles arranged in an alphabetical sequence. Within the boxes are folders and loose pedigrees, coded with an alphanumerical system that resembles that used by Renwick.

Harry Harris (1919-1994) served as a Research Assistant at the Galton Laboratory, University College London, 1947-1950, before joining the Department of Biochemistry of the University. He was appointed Professor of Biochemistry, King's College London in 1960. In 1965 he returned to University College London as Galton Professor of Human Genetics.

C.828-C.845 **'H1 A-F'**

Contents of boxfile so inscribed.

Research, C.1-C.922

C.828 'AR119IC.H.'

C.829, C.830 'CF1...3C.H. Cystic Fibrosis Families'

2 folders.

C.831 'F1H553CFJK Harris 655 see also FJK55 V1155'

C.832 'F1H553CV11. V11553C.H.'

C.833 'FJK553C.H. see also F1H55 V1155'

C.834-C.845 Found loose

12 folders.

C.846-C.861 **'H2 G-R'**

Contents of boxfile so inscribed: material found loose.

16 folders.

C.862-C.869 **'H3 Harris T-Z'**

Contents of boxfile so inscribed: material found loose.

8 folders.

C.870-C.882 **H. Kalmus** **1946-1955**

Contents of boxfile labelled 'Colour vision': work of Kalmus on colour blindness.

The material, chiefly correspondence with colleagues whereby Kalmus was gathering data on colour blindness, was found in four bulky folders. The inscriptions thereon are reproduced in the catalogue entries.

Research, C.1-C.922

Hans Kalmus (1906-1988) was a Czech geneticist who worked in the Galton Laboratory, University College London, from the 1950s.

C.870-C.871	'Distribution of colour sense in vertebrates'	1946
C.870	Typescript drafts 'Colour sense of verebrates' and 'Perception of colour by vertebrates'	
C.871	Manuscript notes, notes on the literature and bibliographical references ; brief correspondence.	
C.872, C.873	'Correspondence with G.L. Walls'	1952-1954

Correspondence between Kalmus, Walls and others *re* inheritance of trianopia and colour vision. Includes two long letters from Walls, 9 and 27 September 1952. At C.873 is typescript of 'A branched-pathway schema for the color-vision system, and some of the evidence for it', sent to Kalmus for comment (at C.872).

Walls was based at the School of Optometry, University of California at Berkeley.

2 folders.

C.874-C.877	'Geographical distribution of colour (blindness [and] defects)'	1953-1955
C.874	Correspondence *re* data on the frequency of colour blindness in populations	1953-1955
C.875	Typescript and manuscript data, including wartime reports	
C.876	Duplicated typescript copies of German wartime articles	
C.877	Manuscript notes etc.	

Research, C.1-C.922

C.878-C.882	'Geographical distribution. Colour defectives' Correspondence *re* data on the frequency of colour blindness in populations.	1953-1954
C.878	December 1953-May 1954	
C.879	July-September 1954	
C.880	October 1954	
C.881	November-December 1954	
C.882	Miscellaneous manuscript and typescript notes	
C.882A	**V.A. McKusick** 'Analysis of Genetic Linkage in Man with Assistance of Digital Computer', conference paper with S.A. Talbot, June 1959.	**1959**
C.883-C.892	**N.E. Morton** Contents of boxfile labelled 'Morton. Freq'. Miscellaneous material *re* work of Morton.	**1960-1977**
C.883	Spiral bound softback notebook inscribed inside front cover 'J.D.Martin' Used from the front for notes on phenotypes and genotypes associated with blood groups, and at the back.	N.d.
C.884	Small hardback notebook inscribed on front cover 'Theorems' Used chiefly for notes on coding.	N.d.

C.885-C.887	'Morton reprints' Duplicated typescript material, including bibliography of Morton and instructions for use of the IBM 650 computer; offprints of Morton. 3 folders.	1960s
C.888-C.891	'Genotype frequencies'	1960-1977
C.888	Ring binder used for coding information	1963
C.889-C.891	Typescript and manuscript information on comparative gene frequencies among different races 3 folders.	1962-1977
C.892	'Morton. Also Morton's code' Includes Brazilian coding scheme.	1963
C.893-C.908	**MISCELLANEOUS GENETICS RESEARCH**	**1961-1972, n.d.**
C.893-C.897	Patients Lists of patients with genetic information, numbered 1-4991. The material was originally contained in ring-binders. For conservation reasons these have been discarded. The folder containing numbers 3001-3750 was not found.	1960s
C.893	'1-750'	
C.894	'751-1500'	

Research, C.1-C.922

C.895	'1501-2250'	
C.896	'2251-3000'	
C.897	'3751-[4991]'	
C.898, C.899	'G6PD x cb'	1961
	Contents of folder so inscribed.	
C.898	Correspondence with I.H. Porter and J. Schulze	1961
C.899	Data	
C.900-C.902	'LU : SE'	1963
	Contents of folder so inscribed: material *re* the Lutheran:secretor recombination fraction.	
C.900	Correspondence	1963-1964
	Includes draft of 'The Lutheran:secretor recombination fraction in Man' by P.J.L. Cook, sent to Renwick for comment, with Renwick's reply.	
C.901, C.902	Data, notes, computer print-out.	
	2 folders.	
C.903	Exchange of correspondence with W.S. Volkers *re* calculation of X chromosome linkage data	1964
	Includes copy of Volkers' report on his six-month period working with C.A.B. Smith at the Galton Laboratory 1963-1964.	
C.904	Correspondence *re* work on Xg:g6pd	1965

Research, C.1-C.922

C.905	Miscellaneous correspondence	1963-1972
C.906	'The effect on linkage estimates of a knowledge of the coupling phase' 3pp typescript with corrections.	N.d.
C.907	Manuscript notes	N.d.
C.908	Bundle of two jotters and loose manuscript notes found folded within thermocopy of 1960 article	1960s
C.909-C.916	**LATER RESEARCH INTERESTS**	**1972-1990s**
C.909-C.911	'Trial of potato-avoidance for prevention of anencephaly and spina bifida' Research grant.	1972-1977
C.909	Grant application to the National Foundation (USA), and related correspondence Renwick postulated that if high-risk mothers were to avoid potatoes during the first four weeks of gestation, these common types of birth defects could be prevented.	1972
C.910	Correspondence, interim reports	1973-1974
C.911	Drafts of application for follow-up grant, 1976-1977; offprints of articles by Renwick on the potato and spina bifida 1973, 1974	1973-1977
C.912	Duplicated typescript papers on possible chromosomal hazards of irradiation	1972

Research, C.1-C.922

C.913-C.916	Phenylketonuria, pelvic instability and other issues Correspondence with L.F. Saugstad, with copies of papers by Saugstad. See also C.363-C.377.	1972-1990
C.913	Correspondence	1972-1976
C.914-C.916	Papers by Saugstad 3 folders.	1970s-1990s
C.917-C.922	**FUNDING OF RESEARCH**	**1966-1981**
C.917, C.918	'Genetic Linkage Analysis', applications to the John A. Hartford Foundation	1966-1970
C.917	Thermocopy of application 1966; correspondence with V.A. McKusick; thermocopy of application for further funding 1969	1966, 1969
C.918	Correspondence and papers *re* Hartford Foundation grant Includes reports for 1966-1967, 1968-1969 and 1969-1970.	1967-1969
C.919	'Search for various types of clustering of loci on human chromosomes' Photocopy of application, possibly to Medical Research Council.	1968
C.920	'Antenatal diagnosis and prevention of genetic disease using genetic linkage information', application to the Association for the Aid of Crippled Children Copy of application.	ca 1970

Research, C.1-C.922

C.921	Correspondence *re* Medical Research Council and other support of research at the London School of Hygiene and Tropical Medicine Also includes thermocopy of letter *re* relations between Renwick and McKusick's team, n.d.	1969-1971
C.922	Information on grant expenditure	1972-1981

SECTION D **PUBLICATIONS, D.1-D.83** **1955-1993**

	D.1-D.32	DRAFTS
	D.33-D.40	REVIEWS
	D.41-D.82	EDITORIAL CORRESPONDENCE
	D.83	OFFPRINTS

D.1-D.32 **DRAFTS** **1961-1990, n.d.**

Further drafts of Renwick's publications may be found in Section C, with the research material to which they relate.

D.1-D.3	'Probable linkage between a congenital cataract locus and the Duffy blood group locus', with S.D. Lawler, *Ann. Hum. Genet.* vol 27 (1963), 67-84	1961-1963
D.1	Correspondence, chiefly with S.D. Lawler	1961-1963
D.2	Typescript draft; corrected proof	
D.3	Pages of draft; tables etc.	
D.4	'Additional data and summary for Albumin:Gc linkage in man', with L.R. Weitkamp *et al*, *Hum. Hered.* vol 20 (1970), 1-7 Photocopy typescript draft.	1970
D.5	'The Rhesus syntenic group in man', *Nature*, vol 234 (1971), 475 Two typescript drafts; copy of galley proof and final proof; brief correspondence with *Nature*.	1971

Publications, D.1-D.83

D.6-D.9	'Assignment and map-positioning of human loci using chromosomal variation', *Ann. Hum. Genet.* vol 35 (1971), 79-97	1971
D.6	Extensively corrected typescript draft	
D.7	Photocopy typescript draft	
D.8	Draft pages, some marked 'Rejected'	
D.9	15pp typescript notes on 'Coding' and 'Grouping' found with preceding Includes punch cards for computer stapled to pages.	
D.10, D.11	'The mapping of human chromosomes', *Ann. Rev. Genet.* vol 5 (1971), 81-120	1971
D.10	Typescript early draft with extensive manuscript correction	
D.11	Later typescript draft, also with extensive manuscript correction Some pages are thermocopies from earlier draft.	
D.12-D.15	'No linkage between HL-A and haptoglobin loci', *American Journal of Human Genetics*, with W.B. Bias *et al*, vol 24 (1972), 354-355	1970-1971
D.12	Correspondence *re* HL-A typing and preparation of paper.	1970-1971
D.13	Early 1p drafts of article	
D.14	Computer print-outs of data	1971

Publications, D.1-D.83

D.15	Manuscript pedigrees	
D.16, D.17	'Prevent potato babies'	ca 1972-1983
D.16	Typescript drafts etc	ca 1972
D.17	Material *re* prevention in medicine	1975-1976, 1982-1983
D.18	'Analysis of cause - long cut to prevention?', *Nature*, vol 246 (November 1973), 114-115 Letter 1974; correspondence with *Medical Hypotheses* and others *re* republication of abstract.	1974, 1977
D.19	'The epidemiology of congenital malformation: assistance from pointer analysis', in *Modern Perinatal Medicine*, ed. L. Gluck (Chicago, 1974), 209-218 Early typescript draft with manuscript corrections; later photocopy typescript draft.	ca 1974
D.20-D.22	Typescript drafts on Pointer Analysis	ca 1974
D.20	'Hypotheses in the preventative rather than the causal mode'; 'Pointer Analysis to focus the search for strategies to counter a disease'; 'Pointer Analysis for choosing research strategies to counter a disease'	
D.21	'Pointer Analysis for biomedical research strategies'; 'Pointer Analysis for applied research strategies'	
D.22	Draft pages etc	
D.23	'The linkage relationships of the hemoglobin beta, delta and alpha loci and with 34 genetic marker systems', by L.R. Weitkamp *et al*.	*ca* 1977

/...

Publications, D.1-D.83

/...	Typescript draft. Renwick has been added as an author but his name then crossed out.	
D.24	Letters to the *Lancet* 'Vitamin supplementation and neural tube defects', 20 March 1982. 'Whither the Lancet?', 9 March 1985. 'Attack on preventive research - a parody', submitted July 1985 (not published). 'Chance that individual in Duchenne family is recombinant', 26 July 1986.	1982, 1985, 1986
D.25, D.26	'Linked loci and Bayesian counselling'	1986-1987
D.25	Typescript drafts, one with extensive manuscript correction	
D.26	Correspondence; manuscript calculations	1986-1987
D.27-D.31	'On avoiding statistical bias in linkage-based counselling', *Ann. Hum. Genet.* vol 54 (1990), 321-337	1986-1990
D.27	Photocopy typescript draft annotated 'Keep'	1990
D.28	Two different June 1990 typescript drafts Dated 1 and 9 June, the second annotated 'Incomplete copy of revision as sent'.	1990
D.29	Correspondence, background material Includes humorous poem by Renwick 'The Chance of a Recombinant'.	1986-1990

Publications, D.1-D.83

D.30	'1st proof'; "2nd proof'	1990
D.31	Tables, figures etc.	1990
D.32	'Linkage of lactate dehydrogenase B and C loci in pigeons', by W.H. Zinkham and H. Isansee Typescript draft. Renwick has been included as an author but his name then crossed out.	N.d.
D.33-D.40	**REVIEWS**	**1955-1980, n.d.**
	Renwick wrote many book reviews, some anonymous. Although most of the books reviewed were on genetics, he also wrote reviews of more general biological and biochemistry books.	
D.33	1955-1959 Includes lukewarm review of *Counselling in Medical Genetics* by Sheldon C. Reed (1955).	
D.34	1960-1962	
D.35	Review of: C.A. Clarke, *Genetics for the Clinician* (Oxford 1962) in *British Medical Journal* Correspondence *re* Renwick's review, which was thought to be unfair to Clarke.	1962
D.36	Review of: ed. J.B. Stanbury *et al*, *The Metabolic Basis of Inherited Disease* (1962), in *Annals of Human Genetics* Correspondence *re* review and corrections for subsequent edition.	1962-1964

Publications, D.1-D.83

D.37	1964-1966	
D.38	1967, 1969	
D.39	1970-1972	
D.40	1974-1980, n.d.	
D.41-D.82	**EDITORIAL CORRESPONDENCE**	**1967-1993**
D.41	**Abstracts**	**1978-1993**
	Copies and drafts of abstracts, chiefly for *Abstracts on Hygiene and Communicable Diseases* 1978-1984.	
D.42-D.82	**Refereeing**	**1967-1990**
D.42	Academic Press Inc	1972
D.43-D.45	*American Journal of Human Genetics*	1969-1975
D.43	1969-1970	
D.44	1970-1971	
D.45	1971-1975	
D.46, D.47	*Annals of Human Genetics*	1967-1976

Publications, D.1-D.83

D.46	1967, 1970	
D.47	1974-1976	
D.48	*Behavior Genetics*	1972-1974
	Renwick was asked to referee a paper by R.C. Elston *et al.* As he pointed out in his report to the editor, he and Elston had very different approaches to human linkage. It was agreed that Renwick would write a note for *Behavior Genetics* commenting on Elston's methods, to which Elston would then reply.	
	The exchange was published in vol 3, no. 3 (1973), 317-318 (copy included).	
D.49	*Biometrics*	1977
	British Journal of Industrial Medicine	1982
D.50-D.55	*Clinical Genetics*	1972-1990
D.50	1972, 1978-1980	
D.51	1978-1979	
D.52	1983-1984	
D.53	1984	
D.54	1986-1987	
D.55	1987-1990	

Publications, D.1-D.83

D.56	Forensic Science Society	1980-1981
D.57	*Genetical Research*	1967
D.58	*Heredity*	1976
D.59	*Human Genetics*	1982
	7th International Biometric Conference 1970	1970
D.60	*International Journal of Epidemiology*	1981, 1988, n.d.
D.61-D.72	*Journal of Medical Genetics*	1972-1984
D.61	1972	
D.62	1972-1973	
D.63	1972-1974	
D.64	1974	
D.65	1975-1976	
D.66	1975-1977	
D.67	1977-1979	

Publications, D.1-D.83

D.68	1978-1979	
D.69	1980	
D.70	1981-1983	
D.71	1984	
D.72	1984	
D.73	*Journal of Theoretical Biology*	1981
D.74	Macmillan	1973, 1974
D.75	*Medical Science Research*	1986
D.76	*Nature*	1974, 1984
D.77	*Pediatric Research*	1983
D.78	Royal Statistical Society	1974
D.79	*Saudi Medical Journal*	1983, 1984, n.d.
D.80	*Teratology*	1978
D.81	*Toxicology*	1977, 1979

Publications, D.1-D.83

D.82	Unidentified	1981
D.83	**OFFPRINTS**	**1955-1992**

Set of offprints of Renwick's papers (including some photocopies).

1 bundle.

SECTION E **CONFERENCES AND LECTURES, E.1-E.6** **1955-1988, n.d.**

E.1 'Casual Communications' meeting, Bone and Tooth Society, 9 June 1955 — 1955

Report of meeting.

Renwick spoke on the nail-patella syndrome.

E.2 Conference on Diseases of Genetic Aetiology, Glasgow, 15-17 November 1961 — 1961, 1962

Programme, report of conference from *Scottish Medical Journal* vol 7 (1962).

Renwick spoke on 'Multiple effects of single genes'.

E.3 'Computing the location of genes in man' — early 1960s

2pp duplicated typescript copy of informal lecture on work with computers to discover linkages.

E.4 Ophthalmological Society Conference, Cambridge, 7 April 1970 — 1969-1970

Correspondence *re* arrangements; 3pp typescript of Renwick's contribution.

Renwick introduced the discussion on 'Ophthalmic conditions associated with genetic disorders'.

E.5 International Congress of Eye Research, 1988 — 1988

Abstract for paper by N.H. Lubsen *et al*, 'The organisation and function of the human gamma-crystallin gene family in relattion to human hereditary cataract', and covering letter.

The paper was to be presented by Lubsen and she sought Renwick's permission to include him as a co-author.

E.6 'Techniques to detect the weak wall of a besieged disease' — N.d.

1p typescript of lecture notes; prompt cards for lecturing; etc.

SECTION F **SOCIETIES AND ORGANISATIONS, F.1-F.50** **1954-1992**

F.1	BRITISH SOCIETY FOR DEVELOPMENTAL BIOLOGY
F.2	CENTRAL HEALTH SERVICES COUNCIL
F.3-F.14	DEVELOPMENTAL PATHOLOGY SOCIETY
F.15-F.33	GENETICS SOCIETY
F.34, F.35	IMPERIAL CHEMICAL INDUSTRIES
F.36	INTERNATIONAL COMMITTEE ON THROMBOSIS AND HAEMOSTASIS TASKFORCE ON NOMENCLATURE OF FACTOR VIII
F.37-F.42	MEDICAL RESEARCH COUNCIL
F.43	MEDICINSKA INFORMATIONSCENTRALEN
F.44	MERSEY REGIONAL HEALTH AUTHORITY
F.45	NUFFIELD FOUNDATION
F.46	NATIONAL SCIENCE FOUNDATION, USA
F.47	SOCIAL SCIENCES RESEARCH COUNCIL
F.48, F.49	UNIVERSITY OF LONDON
F.50	WELLCOME TRUST

Societies and organisations, F.1-F.50

F.1 **BRITISH SOCIETY FOR DEVELOPMENTAL BIOLOGY** **1973**

Re meeting of the Society.

F.2 **CENTRAL HEALTH SERVICES COUNCIL** **1971**

Memorandum on Human Genetics, annotated by Renwick.

F.3-F.14 **DEVELOPMENTAL PATHOLOGY SOCIETY** **1971-1991**

This society was founded ca 1970. Renwick was a committee member and President 1989-1991.

F.3-F.6 Scientific Meetings 1971-1991

Programmes, lists of speakers, arrangements.

F.3 1971-1975

F.4 1976-1978

F.5 1986

Correspondence *re* arrangements and with participants, programme etc

The 32nd Scientific Meeting, a Symposium on the Prevention of Congenital Malformation in Man, was held at the London School of Hygiene and Tropical Medicine on 25 September. It was organised and chaired by Renwick.

F.6 1987-1991

Societies and organisations, F.1-F.50

F.7-F.9	AGMs and Committee meetings	1974-1991
F.7	1974, 1976, 1986	
F.8	1989, 1990	
F.9	1991	
F.10, F.11	Membership	1972-1988
F.10	Lists of members, 1972, 1975, 1978, 1986	
F.11	Nominations	1986, 1988
F.12-F.14	General and miscellaneous correspondence and papers	1977-1991
F.12	1977-1986	
F.13	1989 Correspondence *re* resignations from the society.	
F.14	1990-1991 Includes correspondence *re* logo.	
F.15-F.33	**GENETICS SOCIETY (formerly the GENETICAL SOCIETY)**	**1954-1991**
	Renwick served as Honorary Treasurer 1960-1965 and auditor 1965-1972.	

Societies and organisations, F.1-F.50

F.15	General	1956-1991
	Correspondence and papers.	
F.16	Auditorship	1967-1973
	Includes copies of accounts.	
F.17-F.19	Special meeting on Human Genetics, 14 November 1969	1969
F.17	Drafts of programme and associated manuscript notes	
F.18	Correspondence with participants	
F.19	Abstracts	
F.20	Planning Group	1969-1970
	Correspondence and papers *re* possible establishment of specialist groups within the society and ?related material *re* planning of future programme.	
F.21-F.33	Society meetings	1954-1989
	Booklets of programmes and abstracts for meetings 116 (1954) - 210 (1989).	
	Not a complete sequence. Many of the booklets are annotated by Renwick.	
	In addition to indicating papers presented by Renwick himself, this sequence shows the active interest he took in developments in genetics and his support of the society.	
F.21	1954-1963	
F.22	1961-1964	

Societies and organisations, F.1-F.50

F.23 1965-1967

F.24 1968-1970

F.25 1971-1972

F.26 1973-1974

F.27 1975-1976

F.28 1977-1979

F.29 1980-1982

F.30 1983-1984

F.31 1985-1986

F.32 1987

F.33 1988-1989

F.34, F.35 **IMPERIAL CHEMICAL INDUSTRIES** **1971**

2 folders.

Renwick acted as an adviser to W.G.F. Adams and ICI on the 'genetics aspects of the health hazards of Tolylyl di-isocyanate and vinyl chloride'. He also advised W.G.F. Adams on his thesis.

Societies and organisations, F.1-F.50

F.36 **INTERNATIONAL COMMITTEE ON THROMBOSIS AND HAEMOSTASIS TASKFORCE ON NOMENCLATURE OF FACTOR Viii** **1975**

Provisional recommendations.

F.37-F.42 **MEDICAL RESEARCH COUNCIL** **1966-1992**

Refereeing grant applications.

F.37 1966

F.38 1967-1968

F.39 1969

F.40 1970

F.41 1970, 1977-1978

F.42 1983, 1992

F.43 **MEDICINSKA INFORMATIONSCENTRALEN** **1977**

Database on chemical teratogens.

Societies and organisations, F.1-F.50

F.44	**MERSEY REGIONAL HEALTH AUTHORITY**	**1986**
	Grant application.	
F.45	**NATIONAL SCIENCE FOUNDATION, USA**	**1972-1973**
	Grant applications.	
F.46	**NUFFIELD FOUNDATION**	**1980, 1981**
	Grant applications.	
F.47	**SOCIAL SCIENCES RESEARCH COUNCIL**	**1974**
	Grant application.	
F.48, F.49	**UNIVERSITY OF LONDON**	**1978-1980**
	Examining.	
	Renwick acted as a Visiting Examiner in Genetics.	
F.48	King's College	1979-1980
F.49	St George's Hospital Medical School	1978-1979

Societies and organisations, F.1-F.50

F.50 **WELLCOME TRUST** **1975**

Grant application.

SECTION G **CORRESPONDENCE, G.1-G.20** **1960-1991**

G.1-G.14 SCIENTIFIC CORRESPONDENCE

G.15-G.20 REFERENCES AND RECOMMENDATIONS

G.1-G.14 **SCIENTIFIC CORRESPONDENCE** **1960-1991**

Renwick kept the bulk of his scientific correspondence with the research to which it related, and consequently it is to be found in Section C. With the exception of the correspondence with L.R. Weitkamp at G.3, therefore, there are no extended exchanges of letters. Other correspondents represented here by more than the individual letter include E.A. Murphy, Ruth Sanger and C.A.B. Smith.

G.1 1960-1965

G.2 1966

Includes Renwick's comments on book by Alwyn Smith and on paper by Nijenhuis.

G.3, G.4 1966-1969

Chiefly correspondence with L.R. Weitkamp *re* albumin:Gc linkage.

Renwick was asked to use his computer program to estimate the proximity of linkage.

G.3 Correspondence

G.4 Computer print-out, pedigree charts etc.

G.5 1967-1969

/...

Correspondence, G.1-G.20

/... Includes correspondence with A.W.F. Edwards' with Renwick's comments on a paper by him.

G.6 1968-1969

Includes correspondence with L.U. Lamm *re* LOD scores for PGM1 and PGM3.

G.7 1970

Includes draft paper by B. Jay on simple glaucoma sent to Renwick for comment.

G.8 1971

Includes draft paper by A.G.Shaper on Neutrophils and Eosinphils sent to Renwick for comment.

G.9 1972

G.10 1972-1973

Correspondence with G.S. Omenn *re* paper by Omenn and H.G. Schrott on prenatal prediction of myotonic dystrophy.

G.11 1973-1975

G.12 1976-1979

Includes draft papers sent to Renwick for comment

G.13 1981-1989

Includes draft papers sent to Renwick for comment.

Correspondence, G.1-G.20

G.14	1990, 1991 Includes draft paper on linkage estimation by C.A.B. Smith sent to Renwick for comment	
G.15-G.20	**REFERENCES AND RECOMMENDATIONS**	**1966-1983**
G.15-G.17	**Appointments**	**1966-1977**
G.15	1966-1967	
G.16	1967-1968	
G.17	1975-1977	
G.18-G.20	**Higher degrees**	**1967-1983**
G.18	1967, 1970	
G.19	1973-1974	
G.20	1977, 1983	

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