

Supplementary catalogue of the papers and
correspondence of

Alexander George Ogston FRS

(b.1911)

by Peter Harper and Timothy E. Powell

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Title: Supplementary catalogue of the papers and correspondence of
Alexander George Ogston FRS (b.1911), biochemist

Compiled by: Peter Harper and Timothy E. Powell

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INTRODUCTION

The material in this collection was made available by Dr Ogston in 1988. It is supplementary to the principal collection of Ogston's papers and correspondence catalogued by the Contemporary Scientific Archives Centre (CSAC 98/2/84) now in the Bodleian Library, Oxford. The additional material documents some of Ogston's later scientific research interests and has been numbered to follow the related material in Section B of the previous catalogue. Information from Dr Ogston about this later research has been invaluable in cataloguing the papers and his comments have been incorporated in the catalogue entries as appropriate. We are very grateful to Dr Ogston for making the material available and for his advice.

Peter Harper
Timothy E Powell
Bath 1990

SECTION B

SCIENTIFIC RESEARCH

B.92 - B.108

DIFFUSION AND SEDIMENTATION

- B.92 Correspondence with B N Preston, ms notes re osmotic changes of the molecular volume of dextran, 1977-78.
- Collaboration begun on visit to Uppsala in September 1977.
- B.93,B.94 Correspondence with T C Laurent and B N Preston, ms notes, re measurement and interpretation of physical constants of 'PERCOLL', 1977-79.
- Collaboration begun on visit to Uppsala in September 1977.
- 2 folders.
- B.95,B.96 Correspondence with T C Laurent, B N Preston and J D Wells, 1980, 1982 and 1985 'concerning "anomalous diffusion" (formation of fingers): includes (1982) a simplified "osmotic explanation", later developed by Wells'.
- 2 folders.
- B.97-B.101 Correspondence with C C Michel and J R Levick, ms calculations 'concerning attempts to describe flow through and filtration by systems (membranes) formed by fibres'. 1985-86.
- 5 folders.

Scientific research

ENZYME KINETICS

B.102 Correspondence, ms notes, draft paper with H A Krebs on the use of isotopic labels to measure the rate of gluconeogenesis, 1977-80.

'Originally AGO corrected HAK's mathematics (at HAK's request) on the simplest case (draft paper). The work was not completed because of difficulties that occurred in finding an experimental means for checking an assumption'.

B.103 Drafts of paper on 'A new relationship between kinetic and equilibrium parameters of reversible enzyme reactions', editorial correspondence 1981-82.

'This is a short story of editorial controversy about a very small scientific matter with, nevertheless, some morals. The subject matter is a small point of enzyme kinetics: misunderstood in first version by one editor (Gutfreund): accepted, on appeal, by another (Slater)'.

EQUILIBRIUM REACTIONS

B.104,B.105 Correspondence with D H Atha and K C Ingham re their measurement of effects of chain polymers on solubility of proteins, 1979-81.

The correspondence was initiated when Ogston was Visiting Fellow, Institute of Cancer Research, Philadelphia, 1978-79.

2 folders.

Scientific research

- B.106-B.108 Correspondence relating to thermodynamics of complex systems, 1983-84.
- Ogston's interest followed from previous work on the thermodynamics of polymers, such as B.46, B.48, B.53 (CSAC 98/2/84).
- B.106 Correspondence with G G Dodson concerning the effects of polyethylene glycol (PEG) on haemoglobin-oxygen equilibria in solution at solid state, 1983-84.
- B.107 Correspondence with S J Gill on the same topic, following Ogston's reporting on a paper at the request of Dodson, 1984.
- B.108 Correspondence with F Koerber on the same topic, 1984.

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