

THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH

The Royal Melbourne
Parkville. N.2. Vic. Aust.

16th June, 1952

Dr. C. A. Brandly
Department of Veterinary Science
The University of Wisconsin
Madison 6. U.S.A.

Dear Dr. Brandly:

It is reasonably certain that I shall be in America this fall and I wondered whether I could spend two or three days at Madison. I was extremely sorry I could not accept your invitation in January, and I should very much appreciate a renewal of it for October.

I hope very much that my wife will be with me and our present plans are to be in San Francisco till October 11th and to arrive at Cleveland on Sunday 19th. If we could spend most of the intervening time at Madison it would suit us very well.

I should of course be glad to speak on any aspects of our work here that would be of interest.

Would you please convey my regards to Dr. Fred and Dr. Lederberg.

Yours sincerely,

F. M. Burnet
Director

C
O
P
Y

Information and suggestions pertaining to Dr. F. M. Burnet's tenure at the College of Agriculture as Knapp Visiting Professor during first semester 1952-53.

Time of arrival - October 13, 1952.

Schedule of stay - October 13-19; November 3-30.

Salary arrangement - Prorated for 5/17 of semester.

Accommodations - The housing bureau has tentatively requested, pending word from Dr. Burnet, a small or medium apartment at the Claridge Hotel for the week of October 12. The rates are \$45/wk. with maid service, \$35 without. A room at the Union would be available for the week in October and the 4 in November except for the night of November 8. (Daily rates - \$7.50 for double, \$8.00 for twin beds). A suite at the Union could be reserved - the rate, \$11.50/day. A suite at the Edgewater, perhaps better, would rent at about the same - \$300-\$540 per month. (Perhaps President Fred should be consulted re housing arrangements).

Knapp Professorship Duties

- (1) To teach a course in the field of the professor's special competence for College students,
- (2) To participate in seminar and conferences with advanced students and staff,
- (3) To give two or three public lectures.

Proposals for the lectures, courses, conferences, etc.

- (1) Dean Froker has suggested that the Departments of Veterinary Science and Plant Pathology sponsor arrangements for and offering of courses mutually acceptable to interested departments and Dr. Burnet. Other proposals are undoubtedly anticipated.
- (2) Dr. Burnet has suggested in his letter of July 28 that he would like to offer a series of lectures on "The Biology of Infectious Diseases".

This approach, he observes, would be similar to that taken in the 1943 Dunham Lectures on evolutionary and ecological aspects of some human virus diseases which lectures were published as the classical "Virus as Organism". Yet, it would seem that the perspective employed in his 1940 book "Biological Aspects of Infectious Disease" might be less advanced and more attractive to a larger number of our students since it was Burnet's attempt "to discuss his own field of interest from the point of view of a biologist rather than a medical man".

- C
O
P
Y
- (3) Several have suggested the desirability of offering a special 5 weeks, 1 credit, 100 series course "The Biology of Infectious Disease". Discussions of infectious disease, generally and specifically as it affects human welfare; the properties, implications and nature of infectious disease from the biological viewpoint and; the evolutionary and ecological aspects of various infectious diseases. 1-3 lectures per week for the five weeks - 4:20 P.M. M.W.F. in 205 Babcock Hall. Wouldn't this require special action by curriculum committee? A number of students have expressed their great interest in credit from such a course by Burnet; this perhaps wouldn't exclude others but they should have official auditing permits.
 - (4) One or two public lectures could be requested and arranged preferably during the 3rd and 5th weeks of Dr. Burnet's stay when word of his competence and fame has spread.
 - (5) Dr. Burnet would undoubtedly be interested in seminar and conferences participation not only among the more interested departments in the College, but certainly also in the Medical School and some other departments and colleges.

Bacteriology and Veterinary Science departments are offering a new course in "Epizootiology" ⁱⁿ the fall semester. Dr. Burnet could help

materially in its orientation.

Publicity

The college and university journalism departments, the News Service, etc., should be provided with adequate material. Individuals from considerable distances have already indicated they would like to arrange to come here for some of Burnet's lectures. Dr. Burnet will be invited to lecture elsewhere and will need some respite other than week-ends.

C
O
P
Y

BIBLIOGRAPHY

F. M. Burnet

- Burnet, F. M., 1925. The nature of the acquired resistance to bacteriophage action. *J. Path. a. Bacter.* 28, 407. 1925. *Bull. Inst. Pasteur* 23, 888. 1926. *Zbl. ges. Hyg.* 11, 701.
- _____, 1927. The relationships between heat-stable agglutinogens and sensitivity to bacteriophage in the Salmonella group. *Brit. J. exp. Pathol.* 8, 121. (1927. *Zbl. f. Bakt. I. Ref.* 87, 457)
- _____, 1932. Lysogenicity as a normal function of certain Salmonella strains. *J. of Path.* 35, 851. (1934. *Zbl. f. Bakt. I. Ref.* 112, 114)
- _____, 1933. Immunological studies with phage-coated bacteria. *Brit. J. exp. Path.* 14, 93. (1933. *Zbl. f. Bakt. I. Ref.* 111, 234)
- _____, 1933. A specific soluble substance from bacteriophages. *Brit. J. exp. Path.* 14, 100. (1933. *Zbl. f. Bakt. I. Ref.* 111, 234)
- _____, 1934. The phage-inactivating agent of bacterial extracts. *J. Path.* 38, 285. (1934. *Bull. Inst. Pasteur* 32, 1070.) 1935. *Zbl. f. Bakt. I. Ref.* 116, 47.
- _____, 1934. The bacteriophages. *Biol. Rev. Camb. philos. Soc.* 9, 332. (1934. *Zbl. ges Hyg.* 32, 668)
- Burnet, F. M. and D. Lush, 1936. Induced lysogenicity and mutation of bacteriophage within lysogenic bacteria. *Aust. J. exp. Biol. med. Sci.* 14, 27. (1936. *Bull. Inst. Pasteur* 34, 988)
- Burnet, F. M., 1942. Discontinuous variation in influenza virus. *Aust. J. Sci.* 5, 81.
- Burnet, F. M., and J. D. Stone, 1945. Further studies on the O-D phase in influenza A virus. *Aust. J. Exp. Biol. med.* 23, 151.
- Beveridge, W.I.B., and F. M. Burnet, 1946. The Cultivation of Viruses and Rickettsiae in the Chick Embryo. *Med. Research Council Special Report Series No. 256.* (Reprinted 1953) HMSO, London.
- Burnet, F. M., J. F. McCrea, and J. D. Stone, 1946. Modification of human red cells by virus action. I. Receptor gradient for virus action in human red cells. *Brit. J. exp. Path.* 27, 228.
- Burnet, F. M., 1947. The receptor-destroying enzyme of *V. cholerae*. *Aust. J. exp. Biol. Med.* 25, 227.

- Burnet, F. M., J. F. McCrea, and S. G. Anderson, 1947. Mucin as substrate of enzyme action by viruses of the Mumps-Influenza group. *Nature*. 160, 404.
- Burnet, F. M., 1948. Variation in Influenza viruses. *Handbuch d. Virusforschung*.
- _____, 1951. A genetic approach to variation in influenza viruses. I. The characters of three substrains of Influenza virus A(WS), *J. Gen Microbiol.* 5, 46.
- _____, 1951. A genetic approach to variation in influenza viruses. II. Variation in the strain NWS on allantoic passage. *J. Gen Microbiol.* 5, 54.
- _____, 1951. A genetic approach to variation in influenza viruses. III. Recombination of characters in influenza virus strains used in mixed infections. *J. Gen. Microbiol.* 5, 59.
- _____, 1951. Mucoproteins in relation to virus action. *Physiol. Rev.* 31, 131.
- _____, 1951. Some biological implications of studies on influenza viruses. *Bull. Johns Hopkins Hosp.* 88, 119.
- Burnet, F. M., and P. E. Lind, 1951. A genetic approach to variation in influenza viruses. IV. Recombination of characters between the Influenza virus A strain NWS and strains of different serological subtypes. *J. Gen Microbiol.* 5, 67.
- _____, 1953. Influenza virus recombination: Experiments using the De-embryonated egg technique. *Cold Spring Harbor Symp. Quant. Biol.* 18, 21.
- _____, 1953. Recombination of Influenza viruses in the De-embryonated egg. I. The use of periodate-treated sera for in vitro characterization of influenza virus strains. *Aust. J. exp. Biol. Med.* 32, 145.
- _____, 1954. Recombination of Influenza viruses in the De-embryonated egg. II. The conditions for recombination and the evidence for the possible existence of diploid influenza virus. *Aust. J. exp. Biol. Med.* 32, 153.
- _____, 1954. Reactivation of heat inactivated influenza virus by recombination. *Aust. J. exp. Biol. Med.* 32, 133.
- _____, 1954. The genetics of virulence in influenza viruses, *Nature* 173, 627.
- Burnet, F. M., 1957. A modification of Jern's theory of antibody production using the concept of clonal selection. *Aust. J. of Science* 20, 67.
- Lind, P. E., and F. M. Burnet, 1957. Recombination between virulent and non-virulent strains of Influenza virus. I. The significance of heterozygosis. *Aust. J. exp. Biol. Med.* 35, 57.
- _____, 1957. Recombination between virulent and non-virulent strains of Influenza virus. II. The behaviour of virulence markers on recombination. *Aust. J. exp. Biol. Med.* 35, 67.

BOOKS

- Burnet, F. M. and F. Fenner, 1949. Production of Antibodies. (2nd. Edition Macmillan, Melbourne.)
- Burnet, F. M., 1945. Virus As Organism: Evolutionary and Ecological Aspects of Some Human Virus Diseases. Harvard University Press, Cambridge, Mass.
- _____, 1953. Natural History of Infectious Disease. (2nd. Edition) Cambridge University Press, Cambridge.
- _____, 1955. Principles of Animal Virology. Academic Press Inc., New York.