

Report of the governing body : 1912 / Lister Institute of Preventive Medicine.

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Royal College of Surgeons of England

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Periodical Books

15.

THE LISTER INSTITUTE
OF
PREVENTIVE MEDICINE.

Report of the Governing Body,
1912.



CHELSEA GARDENS,
LONDON, S.W.

May 8th, 1912.



THE LISTER INSTITUTE
OF
PREVENTIVE MEDICINE.

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CHELSEA GARDENS,
LONDON, S.W.

May 8th, 1912.

The Lister Institute of Preventive Medicine,

CHELSEA GARDENS, CHELSEA BRIDGE ROAD, LONDON, S.W., and ELSTREE, HERTS.

THE GOVERNING BODY.

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University of Dublin.

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Worshipful Company of Grocers.

Worshipful Company of Grocers.

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Members of the Institute.

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Director:

*C. J. MARTIN, M.B., D.Sc., F.R.S.

Department of Bacteriology:

*J. C. G. LEDINGHAM, M.A., M.B., D.Sc., *Bacteriologist-in-Chief at Chelsea.*

*G. F. PETRIE, M.D., *Assistant Bacteriologist.*

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Chief Clerk:

A. L. WHITE.

Artist:

MABEL RHODES.

Assistant Secretary and Accountant:

GEORGE COOPER.

* A recognised Teacher of the University of London.

ANNUAL GENERAL MEETING

. OF .

The Lister Institute of Preventive Medicine,

May 8th, 1912.

REPORT OF THE GOVERNING BODY.

In presenting the 18th Annual Report, the first duty of the Governing Body is to refer to the great loss the Institute has to deplore in the death of Lord Lister.

They need not enlarge on the far-reaching effect of his work and discoveries, as these have met with a world-wide acknowledgment culminating in the impressive funeral service at Westminster Abbey, when representatives not only of Science and Medicine, but of all that stands for the progress of civilisation met from many countries to present their last homage to his memory. They desire rather to record their appreciation of the debt which the Institute owes to him in its foundation, its aims, its guidance and, not least, in the example of his unselfishness and of the imagination, patience and accuracy which characterised his researches.

Joining with others quick to appreciate the importance of the work of Pasteur and Koch, Lister helped to establish this Institute in the firm confidence that it would aid in the great work of carrying those discoveries still further. He undertook the duties of the first Chairman of its Governing Body, holding that post from 1891 to 1903, when advancing age led him to accept the Honorary position of President of the Institute. He spared no efforts to secure adequate financial support for the establishment of the Institute on a firm foundation, and great was his satisfaction when the munificent donation of a friend to Science made that support assured.

His interest in the Institute continued to the last, and his approval of its work, founded on long experience, has been shown by the generous bequest of £20,000 to its general funds.

The Royal Society have nominated Sir William Leishmann, F.R.S., to a seat upon the Governing Body during the absence of Colonel Sir David Bruce, who has been appointed to command an expedition to Nyassaland for the further study of Sleeping Sickness in that colony. It is anticipated that Sir David Bruce will be absent from this country for two or three years. At the same time the Royal Society nominated Sir William Watson Cheyne, Bart., C.B., F.R.S., to be the representative of the Society on the General Council of the Institute.

Mr. G. Udny Yule, the distinguished Statistician, has consented to accept an honorary post on the staff of the Statistical Department, whereby his great experience will be at the service of the department.

Several changes in the Scientific Staff have also occurred. Dr. F. A. Bainbridge having been appointed Professor of Physiology in the University of Durham, has resigned his position in the Bacteriological Department of the Institute. The services of Dr. G. F. Petrie have been temporarily lent to the Government of Egypt to undertake an investigation into the epidemiology of Plague in Upper Egypt.

Dr. E. E. Atkin, formerly a Beit Scholar, and Dr. W. Ray, formerly a Rhodes Scholar, have been elected to fill the vacancies in the Bacteriological Staff caused by these appointments.

The services of Mr. Sydney Rowland are still placed at the disposal of the Advisory Committee for the Investigation of Plague in India.

The importance of Entomological Science in relation to Public Health and Preventive Medicine has led the Governing Body to appoint Mr. A. W. Bacot, a distinguished student of Insect Bionomics, as entomologist on their staff. Mr. Bacot will devote himself principally to research in connection with the medical aspect of his subject, but it is also proposed that he should give at the Institute from time to time a short course of lectures in Medical Entomology.

Mr. R. V. Norris, Mr. E. A. Cooper and Dr. Casimir Funk have during the year held the Grocers', Jenner Memorial and the Institute Scholarships respectively.

Turning to the current work of the past year, the Governing Body are glad to be able to report continued development and progress in all the activities of the Institute. Individual researches as well as special or organised investigations have both increased in number and importance. In addition to the researches which have been conducted in the various laboratories, the general scope of which may be gathered from the list of scientific papers published during the year which is appended to this report, certain organised inquiries with which the Institute has been concerned deserve mention.

By arrangement with the Local Government Board, the Institute continues to co-operate with the Medical Inspectors of the Board in the investigation of suspected typhoid carriers in this country.

The Bacteriological Department has also undertaken an investigation into the Anaerobic Flora of the Child's Intestine. The work is being carried out by Dr. H. R. Dean, and the expenses of the research are defrayed by a special grant from the Local Government Board.

During the year the Commission for the Investigation of Plague in India has continued its inquiries both in India and at the special plague laboratories of the Institute at Elstree, which were placed at the disposal of the Advisory Committee. In December this Committee issued a further volume of reports including (a) a detailed account of experimental inquiries conducted in the Institute's laboratories as to the toxic and immunising properties of the various constituents of the plague bacillus and the application of the result to the immunisation of horses with a view to the production of curative sera and to the preparation of prophylactic vaccines capable of standardisation, and (b) a minute analysis of the factors influencing the prevalence of Plague in the Punjab, carried out in the Institute's Statistical Laboratory.

In 1911, 3,246 samples of milk were examined for the presence of Tubercle Bacilli for the London County Council, an increase of 296 over the number tested in 1910.

In addition to the General Scientific Staff and the holders of the Institute's research Scholarships, the following ladies and gentlemen have carried out researches at the Institute during the year: Mesdames Norris, Parsons and Wood; Misses Hole, Lane-Claypon, Pixell, and Smedley (Beit Scholar); Drs. Bayon (Beit Scholar), Bosanquet, Brooks (British Medical Association Scholar), Cunningham, Funk, Martinez, Nicoll (Ernest Hart Scholar, B.M.A.), Penfold, Priestley (Beit Scholar), Tarapurvalla, Tebbutt, Thomson, Valladares, Visentini; Messrs. Cooper (Beit Scholar), Cropper, Davies, Dunkerley, Harding, Hort, Kirkpatrick, Lanchester, Martin, Morgan, Norris (Beit Scholar), E. H. Ross, H. C. Ross, Wingate.

The growing demand from holders of research scholarships and other private workers for opportunities to work in the Institute's laboratories is gratifying. The Governing Body recognise that, although such hospitality, including in many instances the provision by the Institute free of cost of all facilities necessary for the investigations, involves enhanced expenditure and greater demands upon the time of the staff, it is a direction in which the general usefulness of the Institute has been increased.

The Governing Body have long felt that the expansion of the Institute's activities rendered it desirable to relieve the Director of some of the supervision of administrative and financial details, and they decided to appoint another member of the Scientific Staff to assist him in this work. Mr. M. Greenwood, Junr., has been selected to perform these duties and will, in addition to his scientific work as head of the Statistical Laboratory, act as Secretary to the Governing Body. The new arrangement is working successfully.

The progress of the Institute has also induced the Governing Body to take advantage of an offer to acquire by purchase from the Executors of the late Sir Charles Lawes-Wittewronge, Bart., the freehold and leasehold premises known as the "Studios," adjoining the Institute's building at Chelsea. Though there is no immediate necessity for adding to their laboratories, the Governing Body feel that in all probability it will not be long before they may be glad of the power of expansion which the control of these premises will afford.

At Elstree, the new Stables referred to in the last annual report are in use, giving loose box accommodation for 20 additional horses. New laboratories for the preparation of calf-lymph were commenced in 1911, and are now occupied. The buildings are of one story with lofts above affording accommodation for general storage. They include a large general laboratory, an operating room with top light, a private laboratory for the bacteriologist in charge, a small room containing a gas engine to supply power, a service room and a small photographic laboratory. Separated from the laboratory building by a few yards is a calf stable capable of accommodating 12 animals. This is warmed from the main building. The old calf stable and operating room has been converted into a quarantine stable for the calves prior to their employment for the preparation of vaccine.

Owing to the increased output of the Elstree departments the Governing Body will shortly proceed to the appointment of an Assistant Bacteriologist on the staff there.

The Governing Body also desire to mention that the Rev. C. N. R. Burrows having generously offered to the Institute his collection of acari and insect parasites, they have gratefully accepted the gift, and the specimens are now available for study in the Entomological Department.

The Balance Sheet of the Institute for the year ending December 31st, 1911, is attached and shows a satisfactory position, the excess of income over expenditure being at Elstree £4,671 5s. 4d., at Chelsea £1,861 18s. 9d. During the year £2,475 6s. 6d. has been expended on the additions to the Stabling and the new Laboratories at Elstree. The total sum of £393 13s. 5d. has been placed to the credit of the Sinking Fund in the Chelsea and Elstree accounts.

The Governing Body desire, in conclusion, to acknowledge the effective and cordial co-operation of the Director and all members of the Staff in the research work of the Institute.

HENRY E. ROSCOE.

Chairman.

Dr.

The Lister Institute

BALANCE SHEET,

	£	s.	d.	£	s.	d.
To CREDITORS				814	5	7
To LOAN from Bankers against Securities per Contra				9,500	0	0
To SINKING FUND				3,366	3	2
To CAPITAL FUND—						
Including Donations, &c. received from the following—						
Dr. Ludwig Mond	£2,000	0	0			
The Berridge Trustees	46,379	10	1			
Tho Grocers' Company	10,000	0	0			
Lord Iveagh	250,000	0	0			
Other Donations	20,120	8	3			
Jenner Memorial Fund	5,768	0	11			
				370,890	2	1
Add						
Balance of Chelsea Gardens Department Income and Expenditure Account, being excess of Income over Expenditure, for the year ending 31st December, 1911	1,861	18	9			
Balance of Elstree Department Income and Expenditure Account, being excess of Income over Expenditure for the year ending 31st December, 1911	4,671	5	4			
				6,533	4	1
				377,423	6	2

HENRY E. ROSCOE,
Chairman.

J. L. PATTISSON,
Hon. Treasurer.

£391 103 14 11

REPORT OF THE AUDITORS

We have audited the above Balance Sheet. We have obtained all the information and explanations we have required. of the Institute's affairs, according to the best of our information and the explanations given to us and as shown by the books of
London, 12th April, 1912.

of Preventive Medicine.

31st DECEMBER, 1911.

Cr.

By CASH—		£	s.	d.	£	s.	d.
At Bankers	...	319	1	10			
In hand	...	26	13	5			
					345	15	3
By INVESTMENTS (at cost)—							
£25,000 Great Northern Railway 3 per cent. Debenture Stock	...	4,570	11	0			
£25,000 Lancashire and Yorkshire Railway 3 per cent. Consolidated Preference Stock	...	4,520	3	6			
£4,900 London and North Western Railway 4 per cent. Consolidated Preference Stock	...	5,940	5	0			
£25,000 Great Central and Midland Railway Joint Committee 3½ per cent. Guaranteed Stock	...	5,123	19	3			
£2,900 New South Wales 3½ per cent. Stock, 1918	...	2,897	16	0			
£1,000 Cape of Good Hope 3½ per cent. Stock	...	1,000	0	0			
£1,500 City of Sydney 4 per cent. Bonds	...	1,500	0	0			
£353 North Eastern Railway 4 per cent. Guaranteed Stock	...	499	11	0			
					26,052	5	9
By INVESTMENTS, LORD IVEAGH'S DONATION (at cost)—							
£25,006 2s. 6d. New Zealand Government 3 per cent. Inscribed Stock, 1945	...	24,117	17	6			
£25,000 Victorian Government 3 per cent. Inscribed Stock, 1929-1949	...	23,875	0	0			
£25,000 Natal 3 per cent. Inscribed Stock, 1929-1949	...	24,484	7	6			
£25,000 New South Wales Government 3 per cent. Inscribed Stock, 1935	...	24,937	10	0			
£26,100 South Australian Government 3 per cent. Consolidated Stock, 1916	...	24,860	5	0			
£25,000 Cape of Good Hope 3 per cent. Inscribed Stock, 1933-1943	...	23,850	0	0			
£25,000 London and South Western Railway 4 per cent. Preferred Converted Ordinary Stock	...	32,000	0	0			
£25,000 Great Northern Railway 3 per cent. Preference Stock, 1898	...	26,000	0	0			
£25,000 Midland Railway 2½ per cent. Preferred Converted Ordinary Stock	...	20,375	0	0			
£25,000 East Indian Railway 3 per cent. New Debenture Stock	...	25,500	0	0			
					250,000	0	0
By INVESTMENTS JENNER MEMORIAL FUND (at cost)—							
£2,650 Southwark and Vauxhall Water Co. 3 per cent. Debenture Stock "B"	...	2,756	10	0			
£2,660 South Eastern Railway 3 per cent. Preference Stock, 1898	...	2,740	5	0			
£300 11s. Liverpool Corporation 3 per cent. Stock	...	271	5	11			
					5,768	0	11
By INVESTMENT, SINKING FUND (at cost)—							
£3,421 3s. 11d. 2½ per cent. Consols	...				2,972	9	9
(The above Investments, at the market value, 31st December, 1911, show a depreciation.)							
By DEBTORS	...				4,427	13	5
By STOCK OF TUBERCULIN, MALLEIN, ANTI-BACTERIAL VACCINES, &c.	...				426	6	0
By FURNITURE, FITTINGS, SCIENTIFIC APPARATUS AND BOOKS—							
As per account, 31st December, 1908	...				2,746	17	2
By EXPENDITURE ON INSTITUTE BUILDING AT CHELSEA—							
As per account, 31st December, 1910, including purchase of freehold site, £26,000					70,916	3	1
By QUEENSBERRY LODGE FARM, ELSTREE—							
Purchase of freehold land and buildings and Expenditure on new buildings, as per account, 31st December, 1910	...	17,053	1	10			
Add additions during the year	...	2,475	6	6			
					19,528	8	4
Stock of Animals and Forage	...	603	17	9			
Stock of Anti-Toxins, Bottles, &c.	...	6,496	6	11			
Stable Utensils, Farm Implements and Sheds, as per account, 31st Dec., 1903	...	138	1	4			
Laboratory Apparatus, as per account, 31st December, 1903	...	466	1	3			
Furniture, as per account, 31st December, 1903	...	215	8	0			
					7,919	15	3
					£391,103	14	11

TO THE MEMBERS.

In our opinion, such Balance Sheet is full and fair, and properly drawn up so as to exhibit a true and correct view of the state of the Institute.

COOPER BROTHERS & CO.,
Chartered Accountants. } Auditors.

The Lister Institute

Dr. Chelsea Gardens Department.—INCOME AND EXPENDITURE

INCOME.							£	s.	d.
To Interest and Dividends on Investments	...	...	...	...	...	...	8,713	13	0
To Investigation, Diagnosis and Analysis Fees, &c.	...	...	...	...	...	...	4,808	17	0
To Sales of Tuberculin, Mallein, Anti-Bacterial Vaccines, &c.	...	...	...	...	...	£1,462	1	2	
<i>Add</i> Stock of Tuberculin, Mallein, Anti-Bacterial Vaccines, &c., 31st December, 1911...							426	6	0
							1,888	7	2
<i>Deduct</i> Stock of Tuberculin, Mallein, &c., 31st December, 1910...							369	19	0
							1,518	8	2

£15,040 18 2

Dr. Elstree Department.—INCOME AND EXPENDITURE

INCOME.							£	s.	d.	£	s.	d.
To Sale of Antitoxins, &c.	...	...	...	...	...	...	8,733	5	2			
<i>Add</i> Stock, 31st December, 1911							6,257	3	1			
							14,990	8	3			
<i>Deduct</i> Stock, 31st December, 1910							5,459	7	0			
							9,531	1	3			

£9,531 1 3

Preventive Medicine.

ACCOUNT for the Year ending 31st December, 1911.

Cr.

EXPENDITURE.

	£	s.	d.
By Rates, Taxes and Insurance	686	12	10
By Salaries and Wages of Staff	7,924	5	5
By Stationery, Printing, Postage and Advertising	296	18	5
By Office Expenses and Sundries	211	15	6
By Travelling Expenses	10	16	0
By Law Charges	5	5	0
By Auditors' Fee	21	0	0
By Gas and Water	273	19	7
By Electric Light and Power	173	1	3
By Fuel	139	10	3
By Director's Laboratory Expenses, including General Apparatus	290	11	4
By Bacteriological Laboratory Expenses, including Apparatus	404	13	2
By Water and Bio-chemical Laboratory Expenses, including Apparatus	301	15	6
By Furniture	29	19	3
By Culture Media	114	11	9
By Animals	560	18	6
By Animal House Expenses	372	10	7
By Repairs and Alterations to Buildings and Apparatus	232	13	10
By Library Expenses	150	9	4
By General Stores	125	6	11
By Protozoological Expenses, including Apparatus	100	17	3
By Bad Debts	4	5	6
By Interest on Loan from Bankers	422	10	8
By Sinking Fund ($\frac{1}{2}$ % per annum on £64,916 3s. 1d., Cost of Buildings)	324	11	7
	13,178	19	5
By Balance, being Excess of Income over Expenditure Transferred to Capital Fund (see Balance Sheet)	1,861	18	9
	£15,040	18	2

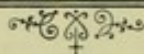
ACCOUNT for the Year ending 31st December, 1911.

Cr.

EXPENDITURE.

	£	s.	d.
By Rent, Taxes and Insurance	124	4	9
By Salaries and Wages	2,078	16	7
By Animals—Stock 31st December, 1910	£536	19	9
Purchased during the year ending 31st December, 1911	431	11	7
	968	11	4
Deduct—Sales during the year ending 31st December, 1911	£70	15	2
Stock, 31st December, 1911	548	7	3
	619	2	5
	349	8	11
By Forage	1,127	9	9
By Stables and other Expenses	13	12	10
By Farm Expenses, including Furniture and Implements	27	14	5
By Gas, Water and Fuel	180	5	9
By Postages and Telegrams	36	16	1
By Laboratory Expenses, including Cost of Bottles, Chemicals and Apparatus	677	7	6
By Travelling Expenses	22	2	11
By Farm General Stores	47	1	7
By Farm Office Expenses and Printing	29	12	3
By Repairs and Alterations	76	0	9
By Sinking Fund ($\frac{1}{2}$ % per annum on Estimated Cost of Buildings)	69	1	10
	4,859	15	11
By Balance, being excess of Income over Expenditure transferred to Capital Fund (see Balance Sheet)	4,671	5	4
	£9,581	1	3

SCIENTIFIC PAPERS PUBLISHED FROM THE LABORATORIES OF THE INSTITUTE DURING THE YEAR



- | | | | | |
|-------------------------------------|--|-----|-----|--|
| ARKWRIGHT, J. A. | ... | ... | ... | VARIATIONS IN THE VIRULENCE OF DIFFERENT STRAINS OF <i>Bacillus Diphtheriæ</i> . <i>Journal of Hygiene</i> , Vol. XI., 1911. |
| ARKWRIGHT, J. A. | ... | ... | ... | THE SERUM REACTIONS (COMPLEMENT FIXATION) OF THE MENINGOCOCCUS AND THE GONOCOCCUS. <i>Journal of Hygiene</i> , Vol. XI., 1912. |
| ARKWRIGHT, J. A. | ... | ... | ... | REPORT ON THE BACTERIOLOGICAL EXAMINATION OF FISH DURING THE EPIDEMIC AMONGST SALMON AND TROUT IN THE SUMMER OF 1911. <i>Board of Agriculture and Fisheries Report</i> . |
| BAINBRIDGE, F. A. | ... | ... | ... | THE ACTION OF CERTAIN BACTERIA ON PROTEINS. <i>Journal of Hygiene</i> , Vol. XI., 1911. |
| BAINBRIDGE, F. A., AND DUDFIELD, R. | AN OUTBREAK OF DYSENTERY. <i>Journal of Hygiene</i> , Vol. XI., 1911. | | | |
| BAYON, H. | ... | ... | ... | DEMONSTRATION OF SPECIMENS RELATING TO THE CULTURE OF THE LEPROSY BACILLUS. <i>British Medical Journal</i> , II., 1911. |
| BAYON, H. | ... | ... | ... | ON THE TRANSMISSION OF LEPROSY TO ANIMALS BY DIRECT INOCULATION. <i>British Medical Journal</i> , I., 1912. |
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