

THE EMBRYOLOGISTS' CLUB

President: Professor J. P. Hill, F.R.S.

Dear Sir,

An informal meeting of embryologists was held on the 19th February, 1948, at King's College, London, at which the Embryologists' Club was inaugurated. A Committee was elected consisting of Dr. Fraser (Chairman of Committee), Mr. A. Fisk (Secretary), Dr. M. Tribe (Treasurer), Miss Ince and Mr. Newth.

Aims

1. Informal discussion of problems of Embryology.
2. To provide opportunities for meeting embryologists from other countries.
3. In due course to form a sub-committee to explore the possibility of compiling a record of embryological research material available in this country.

Constitution.

Membership of the Club (by a proposer and two seconders) is open to all embryologists. The annual subscription is two shillings and sixpence.

The next meeting will be held on the 4th June at University College, London. Tea and a Business Meeting will be held at 4.30 p.m. in the Mixed Staff Common Room when the constitution will be discussed, followed by a scientific meeting. The topic of the scientific meeting will be "The limitations of Amphibian material in Experimental Embryology" introduced by Mr. Newth and Dr. Abercrombie; Dr. Ford and Dr. O'Connor will also speak, after which there will be general discussion. The meeting is open to anyone interested in the subject.

All intending to take tea (for which a small charge will be made) must notify Dr. Fraser, Department of Zoology, University College, Gower Street, London, W.C.1., by the first post on the 2nd June.

The Committee would be grateful if you would bring this notice to the attention of any embryologist known to you.

Yours faithfully,

Alan Fisk

ALAN FISK, Secretary.

Biology Department,
St. Mary's Hospital Medical School,
Paddington, London, W.2.

The Embryologists Club.

A meeting of embryologists was held at Kings College London on February 19th 1948 at 5.45 p.m. Present

Dr. M. Abercrombie	U.C.L.
Mr Alan Fusk	St Marys Hospital
Dr. A d'A. Bellairs	London Hospital (Anatomy)
Dr. P.D.F. Murray	Barts. Biology Dept.
Miss F.E. Ince	Bedford College
Mr P. Ford.	U.C.L.
Dr R.J. O'Connor	Westminster Hosp. Med. school
Miss M.R. Morgan	U.C.L.
Dr P.M. Vearry	Kings College London
Dr. J.F. Newell	Q.M.C.
Dr. M. Tinsley	K.C.
Dr. E.A. Fraser	U.C.L.

Dr. Fraser was unanimously elected Chairman.

The name of the proposed association was discussed and Dr Murray proposed the title "The Embryologists Club" carried.

Resolutions

Officers elected were

Secretary Mr. Fink
Treasurer Dr. Tribe.

Committee members Mr. Newth
Miss Ince.

The committee to consist of the chairman, secretary, treasurer & committee members.

It was decided that all present at the foundation meeting should be eligible for membership, subsequent membership and honorary memberships by proposal & two seconders.

Memberships to be open to research workers and teachers of advanced entomology.
Honorary membership to collectors and senior technicians interested in entomology.

Members to be allowed to bring visitors.

It was agreed that the subscription for the remainder of the session 1947-48 and for future sessions should be 2/6, liable to revision if necessary.

Meetings to be held three times a year in a college or school of the University of London, when possible to be

preceded by tea.

The aims of the club were discussed and referred to the committee for formal expression. The committee was further instructed to discuss the nomination of President and Vice Presidents, and to make arrangements for the next meeting to be held in June 1948.

An illustrated scientific paper on "The Ammochorion of Reptiles" was given by Dr. Torbe & Mr. Fisk followed by a discussion. The meeting closed at 6.30.

Elyette S. Fran
4/6/48.

Meeting of the Entomologists Club on Friday 4th June
at 4.30 pm.

The second meeting of the Entomologists club
was held at University College London on
Friday 4th June at 4.30 pm for tea. At five
o'clock the President of the club, Professor J. P. Hill FRS
opened the meeting and in his address
he welcomed the formation of the club particularly
as it was a sign of the revival of
interest ^{all kinds of} in entomology in the country. He
stressed the importance of the establishment of
an independent Entomology department in every
college of every university, and closed by
wishing the club all success.

Professor de Beer also welcomed the formation
of the club and gave members some information
on the collections of entomology material in
the entomology department of University College.
He stated that a catalogue of the J. P. Hill
collection was almost completed, and that the
T. Thomson Flynn collection presented to University
College would shortly be catalogued. He
suggested that a similar record should
be formed in all departments of Entomology.

- 1/ ^{Passed} The committee of the club investigated the compilation of a record of material.
- 2/ That in the constitution of the club be added "special meetings to be held outside London in addition to the regular meetings"
- 3/ Dr Fraser proposed and it was passed that a separate chairman for scientific business could be elected from time to time.
- 4/ Professor Kirk was appointed auditor.

Dr Murray took the chair for the scientific part of the meeting at which "The limitations of Amphibian material in ^{Experimental Embryology} ^{who} spoke on followed by led a general discussion which was finally summarised by Dr Murray.

The third meeting of the Enzymologists club was held at University College in the department of Enzymology on ~~the~~

The topic of the meeting was to discuss the possibility of an association between the Enzymologists' Club and the Hubrecht Laboratory. Dr. P. D. Merckx, Adjunct Director of the Hubrecht Laboratory attended.

The meeting was opened by Professor J. P. Hill F.R.S. who described the formation and early history of the Hubrecht Laboratory and welcomed the suggestion of an association. He expressed his pleasure that Dr. Merckx had been able to visit the Enzymologists' Club.

Dr. Merckx then spoke on the present constitution and aims of the Hubrecht Laboratory.

Mr. Newth then proposed we cooperate.

- 1/ Provision of reprint
 - 2/ General information service
 - 3/ Support of a table
 - 4/ To provide information about H.L. to British Enzymologists.
- carried.

Professor P.R. de Beer, F.R.S. expressed strong support for the proposals including the proposal concerning a table, he reminded the meeting that the Brit. Ass. supports a table at Naples and recommended contacting UNESCO. He further suggested that the Int. Union Biol. Sci. might assist our associate with Helbrecht Lab.

In the general discussion several members put questions to Dr. Newbourn. * P.T.O.

Prof de Beer pointed out the need to investigate plant embryology and suggested that this might furnish a means to elucidate problems in animal embryology. Dr. Abercrombie suggested the need for a conference on the subject.

The meeting was closed after a general expression of gratitude to Dr. Newbourn. It was followed by a dinner held at University College which the club members present had the pleasure of meeting and entertaining. Dr. & Mrs. Newbourn.

H. Spencer
14.3.39

* for least page

Dr Mesenkov stated that the Humboldt Institute is interested in all problems relating to embryology including pathology but that the main aim is the furtherance of embryology papers. The bounding of the science alters with its development and that genetics is now an important subsidiary science. He also stated that a course in primary technique would be started this spring and that later it was hoped to start a wide field of courses, but further apparatus was necessary.

A meeting of the Embryologists Club was held on Friday 4th March 1949 at 4.45 pm. in University college. ^{Dr Tribe} The minutes of the last meeting were read, confirmed and signed. Members were reminded that the next meeting would be the Annual General meeting.

Following the business meeting Dr H. Abernethy & Miss M.R. Morgan spoke to the club on "The future of Hensen's Node in Development". This was followed by a discussion and the meeting closed at 6.30 pm.

E. J. Lane
10/6/49

The Annual General Meeting of the Entomologists' Club was held on Friday June 10 1949 at in the Biology Dept. St. Barts. Hospital Medical School at 5 o'clock.

The business meeting opened with the Secretary's report, followed by the Treasurer's report. The Secretary was instructed to thank Professor Kirk for acting as auditor to the Society's accounts.

Miss Ince reported on the Society's collection of reprints.

The Secretary was instructed to reply to a letter from the President and to convey to him the wish of the members that he remain in office.

Dr O'Connor proposed the reelection of all the officers. Seconded Dr Bellairs. Passed.

The Committee asked to co-opt Dr Bellairs carried.

Dr O'Connor suggested that full members be co-opted from time to time in order that as many as possible might gain experience.

The business meeting was followed by the scientific meeting. Mr L.J. Hale spoke on the development of sclerotin lines in the chick. The discussion closed at 6.30.

C. A. Law
2.6.10/49.

26/10/49.

A meeting was held on Wednesday 26 Oct. 1949 in the Zoology Dept. University College at 4.45 for tea. After the minutes had been signed and propositions re. membership read the scientific meeting was opened at 5.15 when Miss J. Singer spoke on "Regeneration in Hydroids". Many members participated in the subsequent discussion which closed at 6.30.

E. L. Frow: 30/11/49.

A meeting was held on Wednesday Nov 30 1949 in the Zoology Dept. Queen Mary College. After a tea generously provided by Dr. Nevell and the Department Mr. R. Phillips Dales addressed the club at 5.15 on the subject of "The Influence of York on Polyzoete Development". This was followed by a discussion. The ~~minutes~~ ^{minutes} of the club ~~was~~ to Professor Grove was recorded.

E. L. Frow 10/2/50

A meeting on January 9th was held at University College at 4.45. at 5.15 Professor C.H. Waddington F.R.S. gave a paper on "Studies in Regional Specificity in the Amphibian Organism Centre" Professor G.R. de Beer F.R.S. acted as Chairman and conducted the subsequent discussion. The gratitude of the members was expressed to Professor Waddington.

8th Mar. 1950

A meeting of the Embryologists Club was held on Wednesday 15 March 1950 at King's College London in the Zoology Dept. Members were entertained to tea at 4.45 and at 5.15 the scientific meeting was held in the Lecture Theatre. Professor Danielli in the Chair. Dr R.P. O'Connor spoke on the subject of "The Metabolism of Cell Division and Cell Differentiation". This was followed by a discussion and the meeting was closed at 6.30.

June 16 1950

The Annual General meeting was held in the Lecture Theatre Embury Dept V.C.L. at 5 o'clock after tea in the mixed common room. In view of large number of guests the president Professor J.P. Hill F.R.S. suggested that the minutes of the last meeting be taken as read and that the Secretary's and Treasurer's report be omitted, the accounts having already been audited.

The Secretary announced that the following nominations had been received

Chairman of Committee, Prof. J.D. Boyd

Secretary

Mr Fisk

Treasurer

Dr O'Connor

Committee members: Dr Fraser, Miss Ince

Dr. Alexander

No other nominations having been received these members were declared to be elected.

Professor J.P. Hill F.R.S. then introduced Professor L.S. Stone who addressed the club on "Experiments concerning Development and Regeneration in Transplanted Eyes of Salamanders" and showed three films and a number of lantern slides. After Professor Stone had answered a number of

Question Professor Hill expressed the gratitude
of the club to Professor Stone.
The meeting closed at 6.30.

M. Abernombie.

A meeting of the Entomologists Club was held in
the Zoology Dept at University College on
Friday 27 Oct 1950 at 5.15 preceded by tea
at 4.45.

Mr North addressed the members on
"The neural crest of the lamprey". The chair
was taken by Dr. Abernombie. The lecture
was followed by widespread discussion and
the meeting closed at 6.35.

A meeting of the Entomologists Club was held
at Charing X. Hospital Medical School in Professor
Hamilton's room. Tea was provided at 6.45

and at 5.15 Dr. Harrison spoke on
"Some biological problems in the mammalian
ovary". This was followed by a discussion.
The chairman, Professor Boyd expressed the
thanks of all present to Dr. Harrison for his
address and to Professor Hamilton for his
hospitality both in lending his room and in
providing a very enjoyable tea. The meeting closed
at 6.46.

A meeting of the Entomologists' Club was held on Tuesday Jan 2nd 1950 to which all Zoologists were invited. The meeting was held in the Anatomy Lecture Theatre, University College for the purpose of holding a symposium on "Structural & Functional Aspects of the Mammalian Pleura". In spite of inclement weather about sixty zoologists attended and in the absence of the President the chair was taken up by Professor A. St. G. Huxtable. The subject was introduced by Professor Curroso, who was followed by Professor Boyd. After a interval for tea the meeting was addressed by Professors Hamlett and Borbell followed by Miss Henderson and Mr Hemmings. Papers were discussed until before tea at the close of the proceedings.

After the meeting a number of members dined together at University College and our guest speakers were entertained.

A joint meeting of the Egyptologists' Club and
Innumerate Club was held at Queen Mary
College on Wed. 7 March. Dr. G. P. Wells
in the chair. Tea was kindly provided by
the members in the Zoology Dept. At 5.15.

Dr. H. E. Newell spoke on "The Dev't of
Glycymeris turquata". This was followed by
a discussion and the meeting closed at
6.30.

A meeting of the Egyptologists' Club was
held at University College on 3rd May
in the zoology dept. to hear a
paper by Professor Penzance F.R.S. on
"Aspects of Polarity in Plat' embryos".
This was followed by a long discussion
which closed at 6.30. Dr. M. Abernethy
took the chair, ~~in the~~

The Annual General Meeting was held at
London Hospital Anatomy Dept on 6 June 1951
at 5.15:

The Committee's nominations for officers for
the ensuing year were accepted:

President Prof. J. P. Hill F.R.S.
Chairman Prof. W. J. Hamilton
Sec. Mr A. Fisk
Treasurer Dr R. J. O'Connor

Committee members

Dr M. Abernethy
Prof. J. D. Boyd
Mr D. R. Neale
Miss M. F. Sutton

Professor Boyd explained that he would be
unable to attend most committee meetings
but agreed to meet the club with that
he remain on the committee in an advisory capacity.

The A.G.M. was followed by the scientific
meeting at which Professor Boyd spoke on
"The Dev^o of Specialised Sensory Receptors
Areas in Blood Vessels" Professor Huxset
took the chair for this scientific meeting

Prop. D. O'Connor
Sec. F. H.

30/- life

A meeting of the Entomologists Club was held at
Glasgow & Hospital Medical College on Wed 7 Nov 1951
in the Anatomy Dept at 4.45 for tea, 5.15 for
business. This was followed by the scientific meeting.

On behalf of the committee Dr. R. S. O'Connor proposed

- ① That life membership be available for 30/-
- ② From now on collectors, senior technicians
etc. who are members of the club by invitation
and now known as honorary members, be
known as associate members.
- ③ That the committee be allowed to elect
honorary members.

These propositions were carried unanimously.

At the scientific meeting, Dr Wolff
of Strasbourg spoke on "Experimental Polycytemia
Development of Birds". The meeting was attended
by a number of non-members as all
interested had been invited.

A meeting of the Embryologists Club was held at University College in the Anatomy Lecture Theatre on Monday Jan 7 1952 at 2.30 pm. A large audience was present as the meeting had been thrown open to non-members.

The subject was a symposium on
"Biological Aspects of Developmental Abnormality"

① Genetical background of human malformations
Professor L.S. Penrose

② Early gene effects in mammals
Dr. H. Gruneberg

③ Environmental factors
Professor J.D. Boyd

Interval for tea ~~4.30-5~~ 4-4.30

④ Regulative mechanism in development
Dr. M. Abercrombie

⑤ Regeneration and regeneration
Dr. W. Brand

The papers were followed by a vigorous discussion. Professor W.G. Hamilton occupied

the chair.

The meeting closed at 6 pm.

W.G. Hamilton
4-2-52

A meeting of the Embryologists Club was held on
Monday Feb 4 at University College at 4.45 for
tea 5.15 for a lecture by Professor C.H. Waddington ^{F.R.S.}
on "Comparative Gestulation of Vertebrates". The
lecture was illustrated by films. The meeting
closed at about 6.30 after an animated discussion.
Members present at the business meeting ^{were reminded that the previous} had adopted
the proposition of the Treasurer that "Life
Membership be available for 30/-)

W. J. Hammett
12.5.52.

A meeting of the Embryologists' Club was held on
Monday 12 May 1952 at University College
at 4.45 for tea 5.15 for a lecture by
Professor P. Medawar F.R.S. on "The Significance
of the Embryonic Organizer". The meeting closed
at 6.30 after an animated discussion.

The Annual General Meeting 1952 of the Entomologists' Club was held in the Anatomy Dept. Library & Hospital Medical School on Thursday ~~the~~ 29 May at 4.30. The following propositions of the committee were carried

- ① The number of members of committee be increased.
- ② Drs Abernethy, Baird, Sutton, Travers & North be elected committee members.
- ③ Professor Hamilton, Dr O'Connor & Mr Fisk be re-elected Chairman, Treasurer & Secretary respectively.
- ④ Miss Ince be asked to continue as Librarian, Dr Tribe be elected auditor.

The meeting was conducted by the President Professor J.P. Hill F.R.S. Professor Hamilton referred to the unanimous wish of the members that Professor Hill should continue in the office of President and their pleasure in seeing him at the annual general meeting.

Professor Hill took the chair at the scientific meeting where a series of papers on "Aspects of Lamprey Development" were given by

- ① ~~Dr Whiting~~ ^{Mr Hockley} The ecology and breeding of lampreys
- ② ~~Dr Whiting~~ ^{Mr Baste} Hydration experiments
- ③ ~~Dr Whiting~~ ^{Dr Whiting} The nervous structure of young lampreys
- ④ ~~Dr Whiting~~ ^{Mr Fisk} The development of the acoustico-vestibular ganglion

A ~~fourth~~ ^{fifth} paper was to have been heard by Dr North. Owing to the fact that previous speakers had

occupied more time than had been expected. Dr North
~~was~~ kindly consented to give his paper at a
later date. The members expressed the hope that
he would then expand the paper and not
restrict it to the 20 minutes planned.

The members then examined a series of
demonstrations of preparations of xenoplastic and
homoplastic transplants of embryonic lung
material prepared by Dr North.

Following the meeting a dinner at
the Garrick Hotel was attended by a number
of members.

A meeting of the embryologists' club was held at
University College on Wed 22 Oct 1952 at
4.45 for tea at 5.15 for the business and
scientific meeting. The Chairman Professor Hamilton
introduced three films

- 1/ The Development of the post-yolk expression
- 2/ The Development of the salamander
- 3/ The Development of the heart of the chick

The President, Professor J.P. Hill F.R.S expressed
his particular interest in the film of the opossum
and mentioned some of his own observations on the
same subject. Professor Hamilton agreed to convey
to Professor Stone the appreciation of his films
expressed by the members.

A meeting of the Embryologists' Club was held on Friday 21 Nov. 1952 in the Zoology lecture theatre, University College. Tea was served at 4.45, and at 5.15 Dr. Muriel Sutton spoke on "The regeneration of the siphons of *Brama intestinalis* and a general consideration of asexual reproduction in Ascidians". The talk was followed by an animated discussion in which many members took part. The meeting closed at 6.30

W. S. Hamilton
9th Jan

A meeting of the Embryologists' Club was held at Bham's X Hospital Medical School, Blandford Place in the Anatomy Dept. at 2.30 p.m. on January 9, 1953 to hear a symposium on "Processes of cell differentiation in the Adrenal". The meeting was opened by the chairman Professor W. S. Hamilton who called on Professor J. Z. Young F.R.S. to open the symposium and to give the first paper entitled "Continuous regeneration in the nervous system".

At app. 3.15 o'clock Dr. A. E. Needham continued with "Metaplasia in Invertebrates"

There was a interval for tea at app. 4 o'clock and at 4.30 app. Professor G. Paylin Wright spoke on "The regeneration of the Ductless glands". At about 5 o'clock Dr R. Harkness spoke on "Morphogenetic process in adult liver" and was followed at about 5.30 by Dr R. S. Scythone who spoke on "Revascularisation of adult skin".

The meeting was summarised by Professor J. Z. Young at about 6.15 and Professor Young then closed the symposium.

Discussion followed each paper but unfortunately had to be limited owing to lack of time.

Professor Hamilton thanked Professor Young and other guest speakers on behalf of the club.

The meeting was followed by a dinner at the Garrick Hotel attended by eight members of the club.

W. J. Hamilton
Chairman

A meeting of the Embryologists Club was held at
Channing X Hospital Medical School on 6 March 1953
After tea, at 5.15 p.m. members and their
guests heard Dr. J. Lister Bradley speak
on "Some Embryology problems associated
with hydrocephalus" Professor W.S. Hamilton
introduced the speaker and initiated
a lively discussion.

W.S. Hamilton
20th May

A meeting of the Embryologists' Club was held
on Wed. 20 May 1953 in the Embryology Theatre
University College at 5.15 when
Dr H. Gruneberg spoke on "The Development
of three skeletal mutants in the mouse"
The Chairman, Professor W.S. Hamilton
thanked Dr. Gruneberg on behalf of the
members and ~~initiated~~ initiated a discussion
on the subject in which several
members participated.

The meeting was preceded by tea at
4.45 and closed at approximately 6.30.

W.S. Hamilton
- 15 - 6 - 53

The Annual General Meeting of the Embryologists' Club was held at Bhamini X. Hosp. Med. School in the Anatomy Dept., on 15 June 1953. The committee's nominations of officers for the ensuing year were unanimously agreed to. These were.

Professor W.S. Hamilton F.R.S.Ed. Chairman

Dr. R.S. O'Connor ~~Secretary~~ Treasurer

Mr Fisk Secretary

Committee members: Dr Sitter, Dr. Bassil,

Miss Trushere Dr Abercrombie Dr Harrison.

Dr Tribe was reappointed auditor and Miss Ince librarian.

Professor Hamilton, Dr Harrison & Mr Glenister the spoke on "Aspects of the Placenta of deer"

The meeting closed at 6.30.

W.S. Hamilton
4th Nov 53.

A meeting of the Embryologists Club was held in the ~~Zoology~~ ~~Embryology~~ Zoology Theatre University College W.C.1 on Wed. 4. Nov. 1953 to hear Dr. D.R. Nentle speak on

"Neural Crest and Head Skeleton in Lizards giving the results of his further work on the problem. The scientific meeting at 5.15 was

preceded by tea at 4.45 in the Embryology Department organised by Dr. M. Abercrombie.

W.S. Hamilton
10th Dec 53.

A meeting of the Embryology Club was held in the Embryology Dept. University College on Thursday 10 Dec at 5.15 when Mrs Ruth Bellairs spoke on "the development of the long fore-gut of the chick". The lecture was followed by an animated discussion in which many members took part.

The meeting was preceded by tea at 4.45. Dr Abercrombie and his staff were thanked for the trouble they had taken to ensure the success of the meeting.

Members had been notified that the symposium normally held in Jan would be postponed in 1954 because of the three-day public scientific meeting of the Journal of Embryology & Experimental Morphology.

A meeting of the Embryology Club was held in the Embryology Dept, University College at 5.15 when Prof. O.W. Tiegs spoke "The Embryology of Myriapods in the problem of the origin of insects". Dr. M. Abercrombie introduced the guest speaker and acted as chairman. The meeting closed at 6.30 after discussion. Dr. Abercrombie expressed the gratitude of the Club for the lecture. The meeting was preceded by tea at 4.45 organised by Dr. Abercrombie's staff.

Annual general meeting 3.15 9 June 1954

The A.G.M. was held at Charing X Hospital Medical School in the Anatomy Dept. The Treasurer reported a Bank balance of £40.16.6 after paying the various expenses. He reminded members that the sum includes sums received for Life memberships. The Secretary made his report (see below) In view of the lamental death of Professor J.P. Hill F.R.S. the post of President was left vacant.

Members appointed

Professor W.J. Hamilton F.R.S. Ed. Chairman

Dr R.J. O'Connor Treasurer

Dr Alan Fink Secretary

and Drs M. Abernethy, Ruth Bellars, R.J. Harrison, A.F.W. Hughes, Mabel Sutton and G.M. Truslove were asked to act as Members of Committee.

The death of Professor Hill was reported by the Secretary and the Secretary was asked to communicate members sympathetically.
Secretary's Report. The Secretary referred to the ^{5th} family loss sustained by the Club of its President Prof. J. PHILLIPS F.R.S. and the great part he had played in its early days. The club has also lost another old member by resignation in the person of Professor Kink who was also an active supporter in the early days of the club.

Fewer meetings have been held during this year - four instead of the six which have become customary. The number of members has increased slightly during this year to a total of 85. Not all have paid their subscription.

P.T.O.

The A.G.M. was followed by a symposium on
"Mutual reactions between Embryos and
Inoculated Virus" at 3.30 pm.
Dr. M. Abernethy spoke on "The early development of the chick"
Dr. D.A.T. New on "The physiology of the chick membranes"
Professor C.F. Barnwell on "The use of the
chick embryo in virus research"

Members were very kindly provided with
tea at 4.45 by Professor Hamilton

The meeting was resumed and Professor
Wilson Smith spoke on "The chick embryo as
a determinant of virus characteristics"

This was followed by a long and interested
discussion in which many members and guests
participated.

The gratitude of members to the guest speakers
was expressed by the Chairman, who in turn was
thanked for an excellent tea.

The meeting was followed by a dinner at
the Lyarick Hotel at which the guest
speakers were present.

W. Hamilton
19th Nov 54

A meeting of the Embryologists' Club was held at Bhaming X Hospital Medical School, Dept of Anatomy, at 5.30 to hear Dr T. W. Glanville speak on "Some Aspects of the Problem of Induction and Organization in the Amphibian Nervous System", the outcome of an international cooperative piece of research organized by the Hubrecht Laboratory.

The scientific meeting was preceded by tea at 5 o'clock, which was very kindly provided for members by Professor Hamilton. Dr. O'Connor took the chairman for the very excellent tea at the conclusion of the scientific meeting.

Hamilton
5th Dec 54.

A meeting of the Erythrocytes Club was held at Cherry X Hospital Medical School Anatomy Dept at 5.15 ^{on Wednesday, 8 Dec 1954} to hear Dr A.F.W. Hughes speak in "The Use of the Ultra-Violet Microscope in Erythrocytes". The meeting was provided by tea at 4.45 kindly provided by the Chairman Professor Hamilton. Members were reminded of the annual subscription. After the meeting Professor Hamilton expressed the thanks of the members to Dr Hughes and Dr E.W. Baxter thanked Professor Hamilton for the tea. The meeting closed at about 6.30 after a long discussion, 22 members were present.

A meeting of the Embryologists Club was held at Gharing X Hosp. Medical School in the Anatomy Dept. at 3.15 p.m. to hear a symposium on "Sperms and Eggs"

- 1/ 3.15. Professor F.W. Rogers Brambell F.R.S.
Biological Introduction
- 2/ 3.40 Professor R.G. Harrison
Factors Influencing Spermatogenesis
- 3/ 4.5 Dr T. Mann F.R.S.
Chemical Characteristics of Sperms
- 4.30 TEA
- 4/ 5 Professor R.J. Harrison
The Intr. Volume coverings of the Oocyte
- 5/ 5.25 Lord Rothschild G.M., F.R.S.
- 6/ 5.50 Professor W.J. Hamilton F.R.S. Ed.
The Mammalian Ovary

Professor Hamilton took the chair and the symposium was followed by a discussion that closed at about 6.30. Professor Hamilton was thanked on behalf of all present for his generosity in providing a very excellent tea. at the Garrick Hotel

The meeting was followed by a dinner, for which members paid 10/6 and at which three guests. Mrs Mann, Professor Florence Mogg & Dr T. Mann were entertained

A meeting of the Embryologists Club was held at
University College on Friday 6th May. The Embryology Dept. to
have a symposium on "Some Chemical
aspects of the Development of Organisms". Professor
Hamilton took the chair.

- 1/ Phosphate Metabolism Miss D. Thomson
- 2/ Amino acid " Miss E.M. Dender
- 3/ Discussion

The meeting was held at 5.15 pm &
preceded by tea at 4.45.

~~W. Hamilton~~
17th June 55.

The Annual General Meeting of the Entomologists' Club was held in the Anatomy Dept., Charing X Hospital on Friday 17 June 1955 at 5 p.m. The minutes of the last meeting were read and signed. The Secretary reported on the activities of the club and expressed the thanks of the members for all the work that Professor W. G. Hamilton had done for the club during his chairmanship, he also thanked Prof. Hamilton for the generous hospitality which he had so often extended to members. The Treasurer presented the audited accounts and mentioned the possibility that about £30 could be devoted to a project provided the project was a good business proposition. The nominations of the Committee for next year's officers were all favoured by voting members.

Chairman Dr. Abercrombie Sec Dr. Fick, Treasurer Dr. O'Connor Committee members Dr. Ruth Bellairs, Dr. Glemé, Professor Hamilton, Dr. A.F.W. Hynes, Miss F.E. Ince, Dr. D. Thomson, Auditor Dr. Turle

It was agreed that a dinner be held annually, if desirable, to which non-members may be invited at the discretion of the Committee, their entertainment to be a charge on club funds. It was generally understood that such non-members would be persons who had materially helped the club, such as speakers and that the dinner would normally occur in January or at the end of a busy meeting. A sub-committee was formed (Prof. Hamilton, Dr. O'Connor) to explore the possibility of producing a list of

current publications for sale to members, or provided free to members on an increased subscription. A report was promised in due course.

The A.G.M. was preceded by tea at 4.30, this was generously provided by Professor Hamilton.

The Society meeting followed at 5.15 when Dr. Florence Mooy, a visitor, spoke on "The role of the adrenal cortex in Foetal Development". The Chairman thanked Dr. Mooy and initiated a discussion that closed at 6.30.

W. Abercrombie 31 Oct 55

A meeting of the Embryologists' Club was held in the Anatomy Dept. Charing X Hospital Medical School on Monday Oct 31st 1955 at 5.15 to hear Dr. R.J. O'Connor speak on "Embryology and Cancer". Dr. M. Abernombie took the chair, the meeting closed at approximately 6.30 after a discussion of the paper - which many members participated.

The meeting was preceded by tea at 4.45 which was very generously provided by Professor W.S. Hamilton who was thanked on behalf of the members by Dr. Abernombie.

M. Abernombie. 12 Dec '55

A meeting of the Embryologists' Club was held at University College Gower St on Monday 12 Dec 1955. Tea was provided in the Dept of Embryology at 4.45 and at 5.15 in the Anatomy Theatre. Dr. Ruth Bellins addressed the club on 1/ Sac Experiments on the Embryon of Fish Eggs.
2/ The Work of Dr. Beatrice Mintz on Primordial Germ Cells in the Mouse.

Dr. Devillers (Paris) was present as a guest.

Dr. M. Abernombie took the chair.

The meeting closed at 6.30 after a discussion

M. Abernombie

A meeting of the Embryologist Club was held at University College Gower St on Friday 6 Jan

at 2.30 p.m. in the Physiology Lecture Theatre to hear a symposium on "Teeth"

2.30 Dr C. Howard Tange "Tooth development"

2.50 Dr D.R. Newell "The rôle of the neural crest in the development of the vertebrate tooth"

3.10 Dr. Shirley Hughes "Experimental studies in tooth development"

3.30 Dr. E. Bradford "Problems of comparative dental embryology"

3.50 - 4.45 Interval for discussion and tea

4.45 Dr. NBB Sykes "The cellular pattern of the developing tooth"

5.05 Dr. R.W. Fearhead "The development of innervation"

5.25 Prof. AEW Miles "Abnormalities of tooth development"

5.45 - about 6.15 discussion

Chairman Dr. M. Abercrombie

The meeting was followed by a dinner held in the Board Room (U.C.) which was attended by the guest speakers and numerous members. The dinner gave great pleasure to all who were present and Dr. Abercrombie was thanked for the trouble he had taken to organise the meeting and the dinner.

M. Abercrombie.

A meeting of the Embryologists' Club was held
in the ~~Anatomy~~^{Physiology} Dept, London Hospital
Medical School on Friday 16 March 1956
at 5.15 to hear Professor W. Montagna
(Brown University, USA) speak on "Morphogenesis of Hair Growth"

He was followed by Dr. R. E. Billingham
(University College) who spoke on "Hair Neogenesis"
The meeting was followed by an unrecorded
discussion and closed shortly after 6.30

The meeting was preceded by tea at
4.45 in the Board Room, the tea was
provided by Professor Harrison of the Anatomy
Dept who was thanked for his generosity
at the close of the meeting.

A meeting of the Embryologists' Club was held
in the Embryology Dept, University College
on Wednesday 16 May 1956 at 5.15
when Mr G. B. Stannard spoke on

"Some Aspects of Mammalian Reproduction"
The meeting was followed by a discussion
and closed at 6.35.

The meeting was preceded by tea at 4.45

p.m.

M. Abercrombie

A meeting of the Embryologists Club was held in the Embryology Dept. and ~~Embryology~~ Theatre to which Dr. C. B. Austin of ~~University~~ M.R.C.N. Mill Hill, spoke on the ~~Embryology~~ of the sperm in the ~~Embryology~~ Egg.

The meeting was preceded by tea at 4.45 was held 5.15 - 6 and closed at about 6.30 after an animated discussion.

A meeting of the Embryologists Club was held on Wednesday 31 Oct 1956 at Charing X Hospital Medical School in the Anatomy Department. Tea was provided at 4.45 pm and at 5.15. Professor Huggett spoke on "Foetal Carbohydrate Metabolism".

The meeting closed at about 6.30 after a lengthy discussion. The Sec. thanked Professor Hamlett on behalf of the members for the excellent tea which had been provided.

A meeting of the Entomologists' Club was held in the Anatomy Dept. Middlesex Hospital Medical School. W.I. on Friday, 8 Feb 1957 at 5.15 to hear Dr. PHS Scler speak on "Studying the Neural Crest", an account of the 2nd international project at Utrecht. The meeting closed with a discussion after which members were invited to examine a series of demonstrations.

The meeting was preceded by tea at 4.45 in the Senior Common Room. The members expressed their thanks to Professor Walls for organising the meeting and for providing the tea.

M. Abernethy

7/6/57

The Annual General Meeting of the Entomologists Club
was held at ~~Madras~~ ~~Hoag~~ University College
(Entomology Dept) on Fri. 7 June at 5.5 p.m.

The committee proposed and members present passed
unanimously that the committee for 1957-8 be
composed :- Chairman, Professor W.S. Hamilton,
Treasurer, Dr R.S. O'Connor. Secretary, Dr. Alan Tule.
Committee members Mrs Lawrence, Miss Ince
Miss Denola Dr Abercrombie Dr Silver Dr
Glanister.

Dr Tule was asked to continue as auditor.
The retiring chairman, Dr. Abercrombie, expressed
the thanks of the club to the Treasurer and
the Secretary both of whom had rendered a the
duty owed by the club to Dr. Abercrombie in their
brief reports.

At 5.15 p.m. Professor Woodger spoke to the
club on

The meeting closed at 6.30 after considerable
discussion and after our guest speaker had
been thanked on behalf of the club by Dr. Abercrombie.

Tea was provided, through the kindness of
Dr. Abercrombie, at 4.45 before the meeting.

A meeting of the Embryologists' Club was held at University College (Zoology Dept) at 5.15 on 6 Dec to hear Dr. Harold Fox speak on "An analysis of the fundamental morphological pattern of the vertebrate head, based on the study of the larval urochord *Hyalobrya nebulosa*." Professor Hamilton took the chair.

The meeting was preceded by tea at 4.45 in the lecture theatre, and closed at 6.30 after a discussion in which many members took part.

A meeting of the Embryologists' Club was held in the Anatomy Dept Clunney X Hospital Medical School on Fri. 3 Jan 1958 at 3 o'clock to hear a symposium on "Regeneration in Vertebrates," Professor W. S. Hamilton in the chair.

3.0 p.m. Dr. D. R. Nentl "The control of adult morphogenesis"

3.20 Professor W. S. Bellows "Epidermal mitotic activity"

3.4 Dr. R. D. Harkness "Regeneration of liver"

- 4 p.m. Discussion followed by tea
- 5 p.m. Dr: A. Comfort "Effects of age & size
on the rate of tail regeneration in *Lepomis*"
- 5.20. Professor J.Z. Young "Regeneration of
nerves. General summary."

The meeting was followed by a dinner which was held in the medical school. The Club was happy to entertain two of the great speakers, Professor Bullough & Professor Young. On behalf of the members the Treasurer thanked Professor Hamilton for all he had done to ensure the success of the meeting.

A meeting of the Embryologists' Club was held at London Hospital Medical College in the Anatomy Theatre at 5.15, on Friday 21 March 1958. The meeting was preceded by tea in the Board Room at 4.45.

5.15: Professor R.S. Hanna "Delayed implantation & the reproductive phenomena in the *Bombus*"

5.55 Dr. M. Neil "The problem of foetal
blood fructose in Ungulates"

6.25 Dr. J. W. S. Harris "Factors influencing
secondary palatal closure in mammals"

During the course of the meeting the
chairman, Professor W. J. Hamilton, expressed
the pleasure of the members in learning of
the award of Fellowship of the Royal Society
to Dr. M. Abercrombie & Professor A. S. G. Huxset.
Professor Huxset, who was present, replied briefly.
Professor Hamilton thanked Professor Hamilton
for generously providing hospitality for
the meeting.

The meeting closed at 6.50.

A meeting of the Embryologists' Club was held at
University College, Gower St. in the Embryology
Dept at 5.15 on Friday 13 June to
hear Dr. M. Abercrombie F.R.S. speak
on "Cell affinities in development"
Dr. O'Connor took the chair owing to the

unavoidable absence of Professor Hamilton. The discussion of Dr. Abernethy's paper & its accompanying film closed at about 6.20

The Annual General meeting was then held.

The Committee proposed the election of the following officers for year 1958-59 and in the absence of alternative nominations the proposal was approved by the members.

Chairman Professor W.S. Hamilton

Treasurer Dr. R.S. O'Connor

Secretary Dr. Alan Task

Committee members. Dr. Abernethy, Dr. Silver, Dr. Glenister, Miss Ince, Dr. Harold Fox, Dr. A.S. Curtis.

It was proposed that Dr. M. Tribe be asked to continue to act as auditor.

The Treasurer reported that the club's investments amount to £30 (Premium bonds) and cash in hand (at Bank) £23.5.10. During the year the Club acquired eight new Life Members.

Hamilton
21st Mar 58.

A meeting of the Embryologists Club was held in the Anatomy Dept. Charing X Hosp. Med. School on Friday 21 Nov. 1958. Tea was kindly provided, gratis, for the members at 4.45, for which Professor Hamilton was thanked during the meeting. At 5.15 p.m. Dr A.F.W. Hughes spoke on "Embryonic adaptations in the anuran genus, *Eleutherodactylus*". The paper was followed by a discussion and the meeting closed at 6.30 after Dr. Hughes had been thanked by the chairman, Prof. Hamilton.

A meeting of the Embryologists Club was held in the Anatomy Dept, Charing X Hospital Medical School on Friday 2 January 1959 to hear a symposium on "The Developing Nervous System".

The meeting opened at 2.30 when the Chairman, Professor W.S. Hamilton, presented the apologies of Professor J.D. Boyd for his absence due to illness. As Professor Boyd was to have opened the symposium with a paper "Early development of the mammalian nervous system" Dr A.F.W. Hughes was asked to fill the hiatus by extending his own contribution "Transmission of formative substances in neural dev't".

He gave what proved to be one of the most stimulating papers heard by the Club and the discussion of it did not close before 3.25. when Dr Ruth Bellair spoke on "Electron microscopy of the developing neural tube of the chick". This again proved so interesting that the tea interval had to be delayed until 4.10.

The symposium was resumed at 5 o'clock when Dr. D. Ruitter spoke on "Chemical events in the developing brain", and at 5.35

Dr P.E. Polani spoke on "Effects of abnormal ^{brain} development on function in man"

Dr. P.E. Polani showed a film illustrating a type of cerebral palsy, a disease which he used to illustrate his thesis.

The discussion closed at about 6.20 and a number of members adjourned to Professor Hamilton's room for supper.

At 7.15, nineteen members & guests were present at the annual dinner which was held at the Arts Theatre Club. The two guest speakers were present in addition to several other private guests. The speeches, the Chairman & the Secretary were thanked by Professor R.J. Harrison on behalf of the club.

A meeting of the Embryologists' Club was held at University College in the Anatomy Theatre at 5.15 when Dr Anne M^{rs} Laven spoke on "Mouse embryos in relation to their environment."

The paper was followed by a discussion. The meeting was preceded by tea at 4.45

The Annual General meeting was held at Charing X Hosp. Med. School on Tuesday 19 June 1959 at 5.5 p.m. In the absence of other nominations the meeting accepted the returning committee's nominations for officers, viz.

Chairman Prof Hamlett

Treasurer Dr R.S. O'Connor

Secretary Dr. Alan Fisk

Committee members Dr Abernethy, Dr. Deuchar, Dr. Fox, Dr. Glenister, Dr. Selous.

Auditor Dr. Tribe

The Treasurer presented his accounts & stated that the club possesses a balance of £57.4.8 (£30 in Premium Bonds). After discussion it was decided that he should be empowered to invest & re-invest these funds as & when he sees fit.

The A.G.M. was followed by the Scientific

meeting at 5.15 when Dr. F. Bellett spoke on "The Inhibition of the early development of embryos by benzimidazole and its alkyl derivatives". This was followed by a discussion and the meeting closed at about 6.40.

Before the A.G.M. notices were returned to tea by the Chairman, Prof W. S. Hamilton, a gesture which was much appreciated.

A meeting of the Embryologists' Club was held in the Embryology Dept, U.C. on Thursday 3 Dec. at 5.15 to hear Dr. Bernadette McLaughlin speak on "The effect of different types of mesenchyme on the differentiation of epidermis of in the chick".

The meeting was preceded by tea at 4.45. The acting Chairman thanked Dr McLaughlin & Professor Abercrombie & his staff.

W. S. Hamilton

A meeting of the Embryologists Club was held at Charing X Hosp. Med School on 8. Jan.

DEVELOPMENT AND DNA

A symposium organised by the Embryologists' Club will be held in the Anatomy Theatre, Charing Cross Hospital Medical School on Friday, 8 January 1960 at 2 p.m.

2 p.m.	Replication and Development	Professor Abercrombie, F.R.S.
2.40 p.m.	Biological macromolecules	Dr. S. Brenner.
3.20 p.m.	Nuclear and cytoplasmic inheritance in Amoeba	Miss F. E. Hawkins.
4 - 4.30	Tea	
4.30 p.m.	Architecture and Information	Professor C. H. Waddington, F.R.S.
5.15 p.m.	DNA in eggs and embryos	Dr. D. R. Newth.

Chairman. At first, Professor Hamilton, later Professor Abercrombie.

Between 90-100 attended the symposium of which 54 signed the register.

The meeting was followed by a dinner at the Arts Theatre Club. This was attended by 33 persons one of whom, Miss Hawkins, was a guest of the Club.

W. Hamilton
2-3-60

A meeting of the Embryologists' Club was held at Charing X Hosp. Med. School in the Anatomy Dept. on 2 March 1960 at 5.15 to hear Dr. David Moffat speak on

"The development of the great vessels of and the arteries of the brain in the rat"

The meeting was preceded by tea at 4.45, kindly given to tables by Professor Hamilton, who also took the chair at the meeting.

The Annual General Meeting of the Embryologists' Club was held at St. Mary's Hospital. Medical School in the Physiology Dept at 5.5 pm.

On the nomination of the retiring Committee, the following officers were elected.

Chairman Professor W.S. Hamilton. Treasurer Dr E.W. Baxter
Secretary Dr. Alan Fisk. Committee members.

Professor Abercrombie F.R.S., Professor Harrison, Miss Dando,
Dr. Birchmore & Fox Mrs Bellars.

Auditor Dr. M. Tribe.
The Sec. of the Club is the member of the date of the Treasurer Dr. R.J. O'Connor

and reminded them of the debt owed by the club to their former members.
The Treasurer reported a balance of cash in hand
of £ 9.11.0, & reminded the members that
£ 60 had been invested in Fulham Trust Units.

at 5.15 Dr. Ade Girdle spoke to the members
on "Histological studies in the glycogen
metabolism of the chick embryo."

At the close of the meeting, the Secretary
thanked Professor A. S. G. Huggett F.R.S
for his hospitality to the Embryologists' Club
and this was acclaimed by the members
present.

M. Abercrombie 27.1.61.

A meeting of the Embryologists' Club was
held in the Embryology Dept, University
College London on Friday 27 Jan 1961
at 5.15 to hear Dr A. Curtis
speak on "Cytoplasmic grafts in embryos"

The paper was followed by a discussion.
Professor Abercrombie F.R.S. took the chair in
the unavoidable absence of the Chairman
Professor Hamilton. The meeting was presided
by tea at 4.45 which was generously provided by the College

M. Abercrombie
1/5-3-61

A meeting of the Embryologists' Club was held in the Embryology Dept. University College London on Monday 13 March 1961 at 5:15 pm to hear Mr. N. Dilly speak on "Electron microscopy of sense organelles in *Ascidian tadpoles*". Professor Hamilton took the chair and the meeting closed at 6:30 after lengthy discussion.

The meeting was preceded by tea at 4:45, held in the department, and the members expressed their gratitude to Professor Abercrombie for this and for his hospitality for the meeting.

The Annual General meeting was held at Charing X Hosp. Med. School on Tuesday July 4 at 5 o'clock. In the unavoidable absence of the Treasurer, Dr. E.W. Baster, the Sec. presented the accounts which showed a balance of £20-13-3 and investments at £60 (cost price). Following the Secretary's report the Committee proposed and

the meeting adopted that for next year the office be

Chairman Professor Hamilton

Treasurer Dr Baxter

Secretary Dr Fisk

Committee members: Professors North and Harrison,

Miss Denlow, Mrs Bellis & Dr. Baklanov

& Fox.

Auditor Dr. M. T. Nie.

The Sec. reported that the accounts had not yet been audited, but promised to get that done as soon as the auditor returns to London.

At 5.15 Dr D. Brynner Thomas spoke on "Aspects of foetal haemopoiesis."

The talk was followed by an interesting discussion in which the Chairman and Professor Grünberg F.R.S. discussed the subject with the speaker. It was agreed that the smallness of the meeting (about 12) was more than compensated by the interest of the papers and discussion.

The Chairman invited for tea which he kindly provided at 4.45.

6 April 1962.

GENE EFFECTS IN DEVELOPMENT

A symposium organised by the Embryologists' Club, will be held in the PHYSICS LECTURE THEATRE, ST. MARY'S HOSPITAL MEDICAL SCHOOL, PRAED STREET, W.2., on Friday, 6th April, 1962, at 2.45 p.m.

2.45 p.m.	Professor P.E. Polani	Introduction
3.15 p.m.	Dr. C.O. Carter	Gene effects in Human development
3.50 p.m.	Dr. M. Lyon	Sex chromosomes and dosage compensation
4.30-5 p.m.	Interval for Tea	
5-5.30 p.m.	Dr. C. Ford	Karyotypic changes and phenotypic variability
5.30-6 p.m.	Dr. M. d'A. Crawford	Autosome abnormality and abnormal development

CHAIRMAN: Professor W.J. Hamilton

The symposium will be followed by a dinner. Particulars may be obtained from any member of the Embryologists' Club or from Dr. Alan Fisk, Biology Department, St. Mary's Hospital Medical School, London W.2.

The above symposium was attended by more than 40 members and guests. Tea was kindly provided by St. Marys on the instructions of the Dean. The meeting closed at 6.40 and was followed by a dinner in the Staff Dining Room (cost 22/6 incl. drink & wine). All the guest speakers except Dr. Mary Lyon were guests at the dinner. Professor Hamilton thanked the guest speakers, and also St Marys for hospitality.

A meeting of the Entomologists' Club was held at Landa Hospital Medical School, members having been invited to tea at 4.45 by Professor Harrison. At 5.5 the A.G.M. was held. In the absence of alternative nominations, the Committee nomination of officers for the ensuing year was passed unanimously.

Chairman Professor Hamilton
Treasurer Dr E.W. Bartsch
Secretary - Joint Secs Dr Elizabeth Dencher
Alan Fisk

Committee members - Dr Ruth Bellairs,
Dr Backhouse, Dr Curtis, Professor Harrison
Dr Wolpert.

The Treasurer reported that the collection of subscriptions has proved unsatisfactory & that new efforts will have to be made this year. The Sec, Dr Fisk, reminded members that he had held the post since the foundation of the Club in 1948 and expressed his pleasure at having been able to propose Dr Dencher who would take over, entirely, the Secretaryship next year if members so wish.

Professor Harrison the spoke in "Aspects of planation of the Seal"

CONT

Dr. ~~Scott~~^{Harris} spoke on "Experimentally induced cleft-palate formation in the rat in conjunction with normal development"

Members & guests were invited to have a dinner during a subsequent informal discussion. Professor Harrison was thanked for his hospitality by Professor Hamilton.

A meeting of the Embryologists' Club, preceded by tea at 4.45 pm., was held at University College in the Biochemistry Lecture Theatre at 5.15 pm. on Monday, November 19th. 1962. In Professor Hamilton's absence, Dr. Risk introduced Dr. J. Weston, from Yale University, who is working in Prof. Abercrombie's department. Dr. Weston spoke on "A Radioautographic Analysis of Neural Crest Cell Migration in the Chick". He described experiments in which chick embryos had been labelled with tritiated thymidine and used as donors of ~~neural crest~~ grafts to unlabelled hosts, or alternatively as hosts for grafts from unlabelled embryos. Neural crest ~~cells~~ appeared to give rise to epidermal (pigment?) cells, spinal ganglia,

possibly sympathetic ganglia and adrenal medulla, but there was some indication that Schwann cells - if these were correctly identified - had come from the neural tube.

After some discussion the meeting was adjourned at 6 pm., and Dr. Fisk thanked the speaker for his talk and the Anatomy Department, University College, for the tea...

W. J. Hamilton
4th Jan 1963

Jan 4th. 1963.

SYMPOSIUM

on

THE DEVELOPMENT OF SKELETAL PATTERNS

will be held at St. Mary's Hospital Medical School, Norfolk Place, W.2, in the Physics Lecture Theatre, on Friday, January 4th, 1963.

Chairman : Professor W.J. Hamilton

Speakers:

- | | | |
|-----------|--|--|
| 2.30 p.m. | Introduction | Dr. Honor B. Fell |
| 2.45 p.m. | Skeletal development in Sponges | Dr. W. Clifford Jones |
| 3.30 p.m. | Effects of tail removal and description of skeletal anomalies in lizard embryos. | Drs. L.A. Holder & A. d'A. Bellairs |
| 4.15 p.m. | <u>TEA</u> | |
| 4.45 p.m. | Kinetics of the osteogenic connective tissue. | Drs. Janet Vaughan & Sheila Macpherson |
| 5.30 p.m. | Genes and skeletal development | Dr. H. Grüneberg |

The meeting will close at about 6.30 p.m. and will be followed by an informal dinner for members and their guests.

A meeting of the Embryologists' Club (see printed notice on previous page) was held on January 4th, 1963. Professor Hamilton apologized for the ^{Secretary's} ~~absence~~ of some of the speaker's full titles from the programme notices, before calling on Dr. Howard Fell F.R.S., to introduce the symposium. Dr. Fell mentioned ^{work} ~~work~~ on chick limb and rib development, as an introduction to some of the problems of skeletogenesis and their experimental analysis. Dr. Clifford Jones then described in some detail the arrangement and orientation of spicules during the skeletal development of two species of sponges. Dr. Helder described the regeneration of the tail in hatchling and adult Lacerta vivipara: it was remarkable that in the embryo there were no such regenerative powers. Dr. Bellairs followed with a brief description of palatal anomalies in Lacerta Cepeda. After some discussion of these papers, there was a break for tea from 4.15 - 4.45 pm. Doree Janet Vanphan then illustrated by autoradiographs of bone labelled with tritiated thymidine or tritiated glycine, how such results may be used ~~used~~ ^{to show} ~~quantitatively~~ ^{up} the fate of the cells, ~~and leading to remarkable conclusions~~ ^{that osteoblasts do not divide, although they take up tritiated thymidine into their nuclei, and that the osteocytes are highly active metabolically.} Finally, Professor Jimenez gave a rapid survey of some gene effects on skeletal development in rodents, explaining particularly the widely different times at which the same gene may act, and that both nasal cartilage and mesenchyme may be affected by the same gene. Prof. Hamilton thanked S. May's for their hospitality. After a very brief discussion the meeting was adjourned at 6.30 pm. It was followed by a dinner at S. May's, attended by 29 members and ten guests.

SYMPOSIUM

4th JAN. 1963.

S. Mary's Hospital Med. School.

Members

Guests:

M Baxter

D. Ethridge

F. Billelt

Laird Hamilton

R A Weiss

Alan Turk

~~W J Hammett~~

J. S. Hammi

H. J. ...

E. M. Dend...

A. Bellair

G. M. ...

L. Ince

G. E. ...

M. Aburumbie

Ruth Becho

Ashley Curtis

~~John ...~~

Ken ...

P. Gould,

~~W. ...~~

R. S. Berry

J. Boschwitz

L. A. ...

Janet Waugh

Phoebe Van Valen

Ann ...

P. M. ...

G. N. Patangia

Constance Parkinson

R. Dyson

Philip ...

G. N. ...

C. Margolis

J. ...

B. M. McFarlane

A meeting of the Embryologists' Club was held on Tuesday, March 5th, 1963, in the Department of Biology as Applied to Medicine, the Middlesex Hospital Medical School, London W.1. The meeting was preceded by tea at 4.45 pm.

In Professor Hamilton's absence owing to influenza, Prof. M. Abercrombie took the chair. There were present 25 members.

Dr. L. Hamilton spoke on "The Haploid Syndrome", and described the abnormalities arising in ^{haploid} Xenopus laevis embryos and larvae. Haploidy was produced either by removing the female nucleus by picking, or by killing it by UV irradiation - either procedure being applied 20 minutes ~~after laying~~ after the egg had been laid.

Dr. Hamilton discussed the possible causes of the abnormalities, suggesting that they might be the result of "enforced homozygosity".

After considerable discussion the meeting was adjourned at 6.30 pm.

W. J. Hamilton
6th June 63.

A meeting of the Embryologists' Club was held on June 6th, 1963 in the Embryology Theatre, University College London.

The A.G.M. took place at 5.15 p.m. Professor Hamilton ~~has~~ expressed his willingness to retire from the office of Chairman which he had held for 10 years, Prof. D.R. Newth had been nominated by the Committee, and there being no other nomination he was ^{declared} elected by the meeting. The Committee had also renominated Dr. Baxter as Treasurer, and Dr. Dundas as Secretary, and as there were no other nominations they were also elected without vote. In the Committee, it was suggested that Dr. Fisk should replace Dr. Dundas, and Prof. Hamilton replace Prof. Newth. Also that Dr. Billett and Dr. Benstead be co-opted as ~~additional~~ ^{new} members. Prof. Hamilton had expressed his desire to retire from the Committee.

Officers for the Year 1963/4:

Chairman	Prof. D. R. Newth
Treasurer	Dr. E. W. Baxter
Secretary	Dr. E. M. Dundas

Committee Drs. Backhouse, Bellairs, Billett, Benstead, Curtis, Fisk, Prof. Hamilton, Dr. Wolpert.

The Secretary and Treasurer then presented reports. The Secretary asked that the meeting express their thanks to Dr. Fisk for his many years of service (since 1948) as

Secretary, and also Prof. Hamilton for his ten years as Chairman.

Prof. J. T. Bonner of the Biology Department, Princeton University, then gave a talk and showed a film about experimental work on the development of cellular slime moulds. After a discussion, the meeting was adjourned at 6.45 pm.

A meeting of the Embryologists' Club was held in the Embryology Theatre, University College at 5.15 pm. on Friday, October 25th, preceded by tea at 4.45 pm. Dr. A. F. W. Hughes of the Anatomy School, Cambridge, spoke on "The Ontogeny of Nerve-Muscle Relationships". He reviewed histological and experimental evidence obtained in the toad, *Eleutherodactylus*, suggesting that the ~~nerve~~ nerve fibres at first formed random connections and that these were only later specified to particular muscles. The moment of specification coincided (at 9½ days) with the appearance of the "kick" reaction and of tetanus-induction by strychnine. Counts of cells showed that ventral horn neurons decrease in number during development. Fibre counts indicated that branching occurs.

Approx. 30 members and 10 guests were present. After some discussion the meeting was adjourned at 6.15 pm.

A Meeting of the Embryologists' Club was held in the Anatomy Department, University College, at 5.15 pm. on Friday, November 29th (preceded by tea at 4.45 pm.)

Dr. F. Lefford spoke on: "The Activation and Inactivation of Cell Movement". 24 members and guests were present.

After some discussion of Dr. Lefford's talk, the meeting was adjourned at 6.15 p.m.

A Symposium Meeting of the Embryologists' Club was held at the Middlesex Hospital Medical School W.I., on January 1st, 1964 at 2 pm. ^(24 members + 13 guests were present)

Professor R.W. Rogers Brambell introduced it, emphasizing the problems as well as the technical difficulties of research on the factors influencing early survival and implantation of embryos.

Dr. W.D. Billington, from Oxford, then described his experiments on the influence of foetal/maternal incompatibility on placental size, in reciprocal egg transfers ~~between~~ both hybrid $C_{57} \times A_{26}$ and inbred $C_{57} \times C_{57}$ or $A_{26} \times A_{26}$ mouse ~~hybrids~~ into C_{57} or A_{26} hosts. Incompatibility was associated with increased placental weight. This occurred equally with hybrid and inbred embryos so was not a manifestation of "hybrid vigor". It might be due to deeper invasion by the compatible trophoblast.

Dr. Gaillet later, having then described her findings on the chemical composition of the uterine fluid, ~~in the mouse and rat~~ on the uptake of injected materials into maternal and foetal fluids. She pointed out that glucose is retained to a much greater extent in foetal than in maternal fluids - an indication ~~that certain~~ ^{applied} ~~is needed~~ ^{is needed} to ~~reach~~ ^{reach} ~~the~~ ^{the} ~~foetus~~ ^{foetus} during pregnancy.

Dr. Slawiter has described his studies on the invasion of uterine tube by the rabbit trophoblast in "organ culture" - including recent electron microscope work. Although development was not normal, attachment and considerable development of the blastocyst wall did occur.

After tea Dr. D.A. New discussed the success of his organ culture method for fixing rabbit embryos. Survival was good between 8 and 28 somite stages, but death occurred frequently at 30 somites.

Dr. Kirby, from Oxford, discussed the results of ~~putting~~ injecting rat embryos into various interspermatid organs. Surprisingly, the takes was an even more favorable rate for implantation than to uterus, and gave 100% takes. In the spleen, there were only 30% takes. In the testes, the embryos survive well up to 13 days, the testes undergoes considerable cytotoxicity, especially if "cryptorchidized". In the mother site used, the brain and ventricles, post-implantation resulted in the dorsal process but did not last long. The cerebellum was destroyed.

After some discussion the scientific meeting was adjourned at 6:10 p.m.

There followed a Special General Meeting of the Club to which guests were also invited, to consider the Committee's proposal that it should be converted into a national Society for Developmental Biology. After some discussion it was agreed unanimously that the Club should forward approval to the idea, and it was further agreed that the present Embryologists Club Committee should carry on for the interim period in order to arrange the inauguration of the new society which should take place in 1964. It was agreed that the letter already circulated to members in their approval, should, with certain modifications be sent to all interested scientists. Life members of the Embryologists Club should be offered free membership of the new Society for a period approximately equivalent to the value of 50/-.

The S.G.M. was adjourned at 7 p.m.

The Annual Dinner was held in the Great Refectory of the Middlesex Hospital Medical School, at 7:30 p.m.

Embryologists Club Symposium 1964. Jan. 1st.

Members.

D.R. [unclear]

Randall With

R. Dyson.

W. Johnson.

A.H. Curtis

R. Woopert.

W. [unclear]

P. [unclear]

[unclear]

[unclear]

[unclear]

R.J. Berry.

[unclear]

J.E. Ince

B.I. Baker.

Ruth Bellair

C.B. McLaughlin,

[unclear]

[unclear]

[unclear]

A. Bellair

Guests.

P.A. Russell

B.E. Ford

Anne [unclear]

D.R. Johnson.

e. T.M. Haworth.

I.B. Wilson.

[unclear]

R.P. Gould.

C.B. McLaughlin.

D.P. Alexander

[unclear]

[unclear]

M. J. Evans.

C.L. Mann.

[unclear]

Embryologists' Club Symposium 1964.

Members.

F. Billett,

PA Weiss

M Greenfield.

Kurt Bachmann.

~~Alan Fitch~~

E. W. Baxlin.

M. Abercrombie

H. K. Regan & Brambell.

Guests.