

## 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.

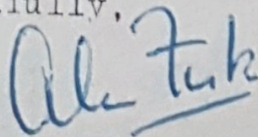
Membership of the Club (by a proposer and two seconders) is open to all embryologists. The annual subscription is two shillings and sixpence.

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, 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 19<sup>th</sup> 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. Vear	Kings College London
Dr. J.F. Newell	Q.M.C.
Dr. M. Trible	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 embryology. Honorary membership to collectors and senior technicians interested in embryology.

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 Amniocorion of Reptiles" was given by Dr. Tribe & Mr. Fisk followed by a discussion. The meeting closed at 6.30.

Elizabeth A. Swan  
4/6/48.



Meeting of the Entomologists Club on Friday 4<sup>th</sup> June  
at 4.30 pm.

The second meeting of the Entomologists club  
was held at University College London on  
Friday 4<sup>th</sup> 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 <sup>all kinds of</sup> 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.



- <sup>Passed</sup>
- 1/ 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 <sup>spoke on</sup> Embryology" followed by who led a general discussion which was finally summarised by Dr Murray.



The third meeting of the Entomologists Club was held at University College in the department of Entomology on ~~the~~

The topic of the meeting was to discuss the possibility of an association between the Entomologists Club and the Hübner Laboratory. Dr. P. D. Nieuwkoop, Adjunct Director of the Hübner Laboratory attended.

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

Dr. Nieuwkoop then spoke on the present constitution and aims of the Hübner 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 Entomologists.
- 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 association with Helmholtz Lab.

In the general discussion several members put questions to Dr. Nieuwenhoop. \* 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 then closed after a general expression of gratitude to Dr. Nieuwenhoop. It was followed by a dinner held at University College where all the club members present had the pleasure of meeting and entertaining Dr. & Mrs. Nieuwenhoop.

H. T. Spencer  
14.3.99



\* for next 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 proper. 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.

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A meeting of the Embryologists Club was held on Friday 4<sup>th</sup> March 1949 at 4.45 pm. in University College. <sup>Dr. Tribe</sup> The minute 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 social meeting. Mr L.J. Hale spoke on the development of school buses in the district. The discussion closed at 6.30.

E. A. Lunn  
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. Finner 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 Polyclastic Development". This was followed by a discussion. The ~~minutes~~<sup>minutes</sup> of the club ~~was~~ to Professor Grove was recorded.

E. L. Finner 10/2/50



A meeting on January 9<sup>th</sup> 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.

8<sup>th</sup> 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 circulated to members.

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. Abernethie.

A meeting of the Embryologists Club was held in  
the Zoology Dept at University College on  
Friday 22 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. Abernethie. The lecture  
was followed by widespread discussion and  
the meeting closed at 6.35.

A meeting of the Embryologists 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 6.40.



A meeting of the Entomologists' Club was held on Tuesday Jan 2<sup>nd</sup> 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 Placenta". In spite of inclement weather about sixty zoologists attended and in the absence of the President the chair was taken off by Professor A. St. G. Huxzette. The subject was introduced by Professor Amos, who was followed by Professor Boyd. After a interval for tea the meeting was addressed by Professors Hamlett and Borrell 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 Entomologists' Club and Invertebrate 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 *Glyptocentrus turgatus*". This was followed by a discussion and the meeting closed at 6.30.

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

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The Annual General Meeting was held at  
London Hospital Anatomy Dept on 6 June 1957  
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. Nettle

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<sup>l</sup> of Specialised Sensory Receptive  
Areas in Blood Vessels" Professor Huxset  
took the chair for this scientific meeting

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Pres. D. O'Connor  
Sec. F. E. H.

30/- life

A meeting of the Embryologists Club was held at  
Charing & 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. J. 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 Polycystic  
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 General 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*  
H-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 <sup>F.R.S.</sup>  
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 <sup>were reminded that the previous</sup> 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 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, Baines, 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 when a series of papers on "Aspects of Lamprey Development" were given by

- (1) ~~Dr Whitely~~ <sup>Mr Hockley</sup> The ecology and breeding of lampreys
- (2) ~~Mr Baste~~ <sup>Mr Baste</sup> Hydration experiments
- (3) ~~Dr Whitely~~ <sup>Dr Whitely</sup> The nervous structure of young lampreys
- (4) ~~Mr Fisk~~ <sup>Mr Fisk</sup> The development of the acoustico-vestibular ganglion

A ~~fourth~~ <sup>fifth</sup> 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 ~~kindly~~ 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 transplantations of embryonic lamprey material prepared by Dr North.

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

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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 pond-going opossum
- 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.

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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 siphon 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. J. Hamilton  
9th Jan

A meeting of the Embryologists' Club was held at Charing 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 Adult". The meeting was opened by the chairman Professor W. J. 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. J. Scathorne 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  
Charing 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.J. Hamilton  
introduced the speaker and initiated  
a lively discussion.

W.J. Hamilton  
20<sup>th</sup> 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.J. 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.J. Hamilton  
- 15 - 6 - 53



The Annual General Meeting of the Embryologists' Club was held at Charing 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.J. Hamilton F.R.S.Ed. Chairman

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

Mr Fisk Secretary

Committee members. Dr. Sitter, Dr. Bassil, Miss Truslove Dr. Abernethy Dr. Harrison.

Dr. Tible 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. J. 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 Lampreys 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. Abernethy. W. J. 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 Abernethy 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 on "The Embryology of Myriapods in the problem of the origin of insects". Dr. M. Abernethy introduced the guest speaker and acted as chairman. The meeting closed at 6.30 after discussion. Dr. Abernethy expressed the gratitude of the Club for the lecture. The meeting was preceded by tea at 4.45 organised by Dr. Abernethy'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 lamented 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 Fisk 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 and the secretary was asked to communicate members sympathetically.  
Secretary's Report. The Secretary referred to the family loss sustained by the Club of its President Prof. J. P. Hill 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. J. 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 thanked the chairman for the very excellent tea at the conclusion of the scientific meeting.

Hamilton  
8th Dec 54.



A meeting of the Embryologists Club was held at Cherry X Hospital Medical School Anatomy Dept at 5.15 <sup>on Wednesday 8 Dec 1954</sup> to hear Dr A.F.W. Hughes speak in "The Use of the Ultra-Violet Microscope in Embryology". The meeting was preceded 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. He 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 Charing 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. Uterine coverings of the Embryo

5/ 5.25 Lord Rottchild 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 6<sup>th</sup> 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~~  
17<sup>th</sup> 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 far extended to members. The Treasurer presented the audited accounts and mentioned a 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. Glenister, 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 presided by tea at 4.30, this was generously provided by Professor Hamilton.

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

W Abernethy 31 Oct 55



A meeting of the Embryologists' Club was held in the Anatomy Dept. Charing X Hospital Medical School on Monday Dec 31<sup>st</sup> 1955 at 5.15 to hear Dr. R.J. O'Connor speak on "Embryology and Cancer". Dr. M. Abernethy 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.J. Hamilton who was thanked on behalf of the members by Dr. Abernethy.

M. Abernethy. 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 Bellairs addressed the club on 1/ Sac Experiment on the Embryology 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. Abernethy took the chair.

The meeting closed at 6.30 after a discussion

M. Abernethy



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. Fearnehill "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 Endocrinologists' Club was held  
in the ~~Anatomy~~<sup>Physiology</sup> 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 animated  
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. M. Abercrombie

A meeting of the Endocrinologists' Club was held  
in the Endocrine Dept, University College  
on Wednesday 16 May 1956 at 5.15  
when Mr G. B. Starmann 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 hear Dr C.B. Austin of M.R.C.N Mill Hill. He spoke on the entry of the sperm into the mammalian egg.

The meeting was preceded by a start 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 Huxglett spoke on "Foetal Carbohydrate Metabolism".

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



A meeting of the Entylogists' 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 Selver  
speak on "Studying the Neural Crest", an  
account of the 2<sup>nd</sup> international symposium 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. Alexander

7/6/57



The Annual General Meeting of the Entomologists Club  
was held at ~~Madison House~~ 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.J. O'Connor. Secretary Dr. Alan Tuke.  
Committee members Mrs Lawrence, Miss Ince  
Miss Dench Dr Abercrombie Dr Silver Dr  
Glenister.

Dr Tuke 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 handed in the  
debt 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 urochordate *Hymenocera velutina*." 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 Building 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. Ballou "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.

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A meeting of the Embryologists' Club  
was held at London Hospital Medical  
School 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.J. Harrison "Delayed implantation  
& the reproductive phenomena in the *Bombina*"



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. St. G. Huxget.  
Professor Huxget, who was present, replied briefly.  
Professor Hamilton thanked Professor Hamilton  
for generously providing hospitality for  
the meeting.

The meeting closed at 6.50.

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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.

W. 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.

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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 devt".



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. Ruiters spoke on "Chemical events in the developing brain", and at 5.35 Dr P.E. Polani spoke on "Effects of abnormal <sup>brain</sup> 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 sherry.

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 speakers, 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 Mc Laren 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. Silver.

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. members were introduced to tea by the Chairman, Prof W. S. Hamilton, a gesture which was much appreciated.

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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 members by Professor Hamilton, who also took the chair at the meeting.

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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. Baster

Secretary Dr. Alan Fisk. Committee members.

Professor Abercrombie F.R.S., Professor Harrison, Miss Dando, Dr. Birkhead & Fox Mrs Bellamy.

Auditor Dr. M. Tribe.

The Sec. signed the minutes 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 Gills 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. St. G. Huxgett 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*  
15-3-61



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. Baxter, 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 officers be  
Chairman Professor Hamilton  
Treasurer Dr Baxter  
Secretary Dr Fisk

Committee members: Professors North and Harrison,  
Miss Denlow, Mrs Bellair & Dr. Baklanov  
& Fox.

Auditor Dr. M. T. N. C.

The Sec. mentioned 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 is thanked 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. Mary's 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 Mary's for hospitality.



A meeting of the Embryologists' 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 nominating, the Committee nomination of officers for the ensuing year was passed unanimously.

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

Committee members - Dr Ruth Bellairs,  
Dr Backhouse, Dr Burtis, 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 Hamilton the spoke in "Aspects of planation of the Seal"

CONT



<sup>Harris</sup>  
Dr. ~~Guth~~ spoke on "Experimentally induced  
cleft-palate formation in the rat in conjunction  
with normal development"

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

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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.	<div style="text-align: center;"><u>TEA</u></div>	
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. Gruneberg

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 <sup>Secretary's</sup> ~~absence~~ of some of the speaker's full titles from the programme notices, before calling on Dr. Hans Fell, F.R.S., to introduce the symposium. Dr. Fell mentioned <sup>very</sup> ~~briefly~~ an chick limb and its development, as an introduction to some of the problems of skeletogenesis and then 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 <sup>viviparous</sup> regeneration of the tail in hatchling and adult Lacerta: 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 Vaughan then illustrated by autoradiographs of bone labelled with tritiated thymidine or tritiated glycine, how such results may be ~~used~~ <sup>used quantitatively to show</sup> the fates of the cells, ~~and leading to remarkable conclusions~~ <sup>that osteoblasts do not divide, although they take up tritiated thymidine into their nuclei, and that the osteocytes are highly active metabolically. Finally, Professor Guillemin 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.</sup> 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

M Baxter

D. Eltinge

F. Billelt

Laird Hamilton

R A Weiss

Alan Turk

H J Hammett

J. S. Hammett

H. J. Hammett

E. M. Dendal

A. Bellair

G. M. Tinsdale

L. Ince

G. E. N. N. N.

M. A. B. B.

Ruth B. B.

A. S. C. C.

A. S. C. C.

A. S. C. C.

A. S. C. C.

## Guests:

P. Gould,

M. S. S.

R. S. B.

J. Boschwitz

L. A. Holder

Tam Wagh

Phoebe Van Veen

Ann M. B.

P. M. Orkard

G. N. Patangia

Constance Parkinson

R. Dyson

Philip Whiting

G. N. MacLaine

C. Margolis

G. J. Tuck

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 <sup>haploid</sup> Xenopus laevis embryos and larvae. Haploidy was produced either by removing the female nucleus by picking, or by killing it by UV radiation - 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 6<sup>th</sup> 1963 in the Embryology Theatre, University College London. The A.G.M. took place at 5.15 p.m. Professor Hamilton ~~having~~ 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 <sup>declared</sup> 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. For the Committee, it was suggested that Dr. Fisk ~~to~~ should replace Dr. Dundas, and Prof. Hamilton replace Prof. Newth. Also that Dr. Billett and Dr. Bensted be co-opted as ~~additional~~ <sup>new</sup> 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, Bensted, Curtis, Fisk, Prof. Hamilton, Dr. Wolpert.

The Secretary and Treasurer then gave their 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 neurones 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. <sup>(29 members + 13 guests were present)</sup> Professor R.W. Rogers Brambell introduced it, emphasising 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  $C_{57} \times A_{2}G$  and inbred  $C_{57} \times C_{57}$  or  $A_{2}G \times A_{2}G$  mouse ~~hybrids~~ <sup>parental</sup> into  $C_{57}$  or  $A_{2}G$  hosts. Incompatibility was associated with increased placental weight. This occurred equally with hybrid and inbred embryos so was not a manifestation of "hybrid vigour". It might be due to deeper invasion by the incompatible trophoblast. Dr. Cecilia Lutwak, having then described her findings on the chemical composition of the uterine fluid, ~~and the egg and vit. B<sub>12</sub> in the capsule~~ <sup>of the embryo</sup> she pointed out that glucose is retained to a much greater extent in foetal than in maternal fluids - an indication ~~that caution is needed in using drug dosage~~ <sup>that caution is needed in using drug dosage</sup> ~~applied from a human~~ <sup>applied from a human</sup> ~~animal to test effects on a~~ <sup>animal to test effects on a</sup>



Dr. Flaxman has described his studies on the invasion of uterine tube by the rabbit hyaloplasm - "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 growing rabbit embryos. Survival was good between 8 and 28 units of Nages, but death occurred frequently at 30 units.

Dr. Kirby, from Oxford, discussed the results of ~~putting~~ injecting rat embryos into various interspermatized organs. Surprisingly, the testes was an even more favorable site for implantation than the 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 "cryptorchidism" is another site used, the brain and ventricle, 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 pm.

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 in 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 asking them to come to the inaugural meeting. 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 pm.

The Annual Dinner was held in the Great Refectory of the Middlesex Hospital Medical School, at 7.30 pm.



Embryologists Club Symposium 1964. Jan. 1st.

Members.

D. R. Smith  
 Ronald Wither  
 E. Dyson.  
 W. Holman.  
 A. H. Curtis  
 L. Wolpert.  
 L. Baul -  
 P. Nieuw  
 H. G. Munro  
 J. H. B. Jensen  
 C. M. Stone.  
 R. J. Berry.  
 W. Hamish  
 J. E. Ince  
 B. I. Baker.  
 Ruth Bellan  
 C. B. McLaughlin,  
 Denis New  
 Elizabeth Denker  
 H. H. H. H.  
 A. Bellan

Guests.

P. A. Raveil  
 B. E. Ford  
 Anne M. Laven  
 D. R. Johnson.  
 E. T. M. Haworth.  
 I. B. Wilson.  
 J. Vincent.  
 R. P. Gould.  
 C. B. McLaughlin.  
 D. P. Alexander  
 K. Bland  
 D. Skibby  
 M. J. Evans.  
 C. L. Mann.  
 L. Nixon



Embryologists' Club Symposium 1964.

Members.

F. Billitt,

PA Weiss

M Greenfield

K. Bachmann.

~~Ch. Fink~~

E. Baxlin.

M. Abernethy

H. Rogers Brambell.

Guests.