

Bigelow, Robert P.

D. C. Gilman correspondence

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Ms. /

ack Bigelow

[3/2/92]

Johns Hopkins University

Feb 29 1892

Dear Sir,

J. H. U. #8
PRESIDENT'S OFFICE

I have the honor to
report as Bruce Fellow
that since my appointment
to the fellowship I have
continued the research that
I began in Jamaica and
have nearly completed it.

My subject is a medusa
for which Professor Brooks
has suggested the appropriate
name Cassiopea Xanacha

It certainly appears to be
a new species although it ~~is~~
resembles very closely
Cassiopea Andromeda of
Eschscholtz. A full description
of the adults and its habits
of life will be given in
my paper.

Agassiz and, before him, Sars
have described a process of
budding in Aurelia and
in 1887 Goette described
a similar process in
Cotyloporhiza. The species
that I am studying however

is the only one so far known
in which this process plays
an important part in the
perpetuation of the species.
Here indeed the sexual process
seems to be secondary, for all
the larvae that were obtained
and of which there was an
abundance, seemed to have
been produced from buds.

A bud first appears as a
slight swelling at a definite
point on the scyphistoma
larva and involves both

layers of the body wall.

Four longitudinal muscles appear in the bud connected with the ectoderm as its apex and finally it is separated from its parent by constriction and swims freely about for several days during which time the mouth is formed.

It then attaches itself to some support, the tentacles are formed and it undergoes further growth and metamorphosis in a way that is similar to what occurs in other medusae produced from eggs.

Bruce Hellousky

Report of

R. P. Bigelow

Feb. 29/92

R. P. Bigelow

Bruce Hellousky

Oct. 3, 1892

Druckers #8

[312/92]
The question as to the homology
of the septal funnels of the larva
with the subgenital cavities
of the adult and the origin of
the sense organs are among
the subjects of a vigorous
controversy at present
between Claus and Goette.

My results give very decided
evidence in favor of the
views held by Claus.

My paper, of which the
manuscript and figures
are both in course of
preparation, will contain

The details of the development
with few omissions from
the beginning of budding
to the appearance of the
adult form, together with
a discussion of these and
other points that have
been in dispute.

Very respectfully
Robert W. Bigelow

To Dr. D. C. Gilman
President of the Johns Hopkins
University.

J. H. V.

#8

PRESIDENT'S OFFICE.

[encl]
Trustus Oct. 3/92
JOHNS HOPKINS UNIVERSITY

PRESIDENT'S OFFICE

To

D. T. Brooke

Mar. 2, 1892

The person to whom this paper is addressed is requested to return it to the President's office, with such comment as may be required.

Herewith:

Report of the
Bruce Fellow
+ a proposed answer—
Have you any comment?

J. H. U. D. T. B.

#8

I have no comment to
make, except that Bigelow's
work is very excellent.

C. K. B.

R. P. Bigelow

Ph.D.

Zoo

Bruce Dill

Bigelow

A

~~Report to be copied~~
Bruce Fellow
JOHNS HOPKINS UNIVERSITY,
BALTIMORE.

Report of

February 28th 1893

Sir:

I have the honor
to report to you for the
second time upon my
work as holder of the
Bruce Fellowship.

At the close of the last
academic year I was
at our marine laboratory
then stationed on the
Bimini Islands and

I remained there studying
marine animals until
nearly the first of
August. I devoted
special attention to the
Hydromedusae making
carefully colored drawings
of the living animals
and preserving specimens
by several methods for
more detailed study at
home. I also collected
and preserved the eggs

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BALTIMORE.

of *Polychonia frondosa*
a species closely related
to the *Cassiopea* that
formed the subject of
my thesis. I succeeded
in rearing from the egg
larvae of all stages
up to that of the youngest
of my *Cassiopea* larvae
so that I brought home
material for a direct
comparison between
larvae developed from

the egg and those produced
by the process of budding
described in my thesis.

On my return to
Baltimore unfinished
work claimed immediate
attention. The figures
for the thesis had to be
put into shape for
publication and my
report on the Stomatopoda
collected by the U.S.F.C.
Steamer Albatross had
to be completed. The latter

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has occupied a large
part of my time and
the systematic portion
of it is now practically
finished. I have also
prepared and delivered
a course of seven lectures
on the histology and
anatomy of Holothurians,
and I have written short
reviews of several articles
for the American Naturalist
besides taking part as

usual in the Journal
Club and the Morphological
Seminary.

As soon as the thesis
and the Stomatopod
report are disposed of
I shall begin on one
of the new lines of research
for which I have material.

Very respectfully
Robert V. Bigelow

To Dr D C Gilman
President I. H. U.

OFFICE OF THE
LIBRARIAN

ant *Bigelow R.P.*
MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, MASS.

April 5, 1902.

B
My dear President Gilman,-

I am chagrined to find that nearly a month has passed since I received your very kind note in regard to the Address, but between teaching, research, and the Library, my time has been so fully taken up that I have not even written to my family. I am delighted that the work in which I had a small share has afforded you so much pleasure. My part of it was purely executive. The project originated, if I remember correctly, with Professor Sedgwick, at any rate, the first draft of the Address was made by him. Professor Lanman subsequently rewrote it, after which it was amended more or less by the rest of us, and some suggestions from alumni not members of the Committee were incorporated also. I am sorry that I did not have a chance to see you when you were in Boston, especially as I should have liked to show you some of the enthusiastic letters that I received with the autographs. I have two large pamphlet cases full of these letters. We have still some things to do to complete the work of the Committee, including the printing and distribution of the letter which you were good enough to write to Dr. Brackett, as President of the Alumni, and which he sent to me. When that is done, I should be glad to send you my collection of letters, for I am sure that the frank expressions of appreciation that many of them contain will give you much pleasure and perhaps some amusement.

Enclosed I am sending you four autographs from abroad that arrived after the celebration. Will you please have these inserted in the book. As they are on gummed paper, the operation will be an easy one, except in the case of Dr. Strong's autograph, which was stuck fast to the letter and had to be steamed off. That one will require paste. If any mishap should befall these autographs, I can replace them with duplicates in my possession.

There are two or three more autographs that are promised, and I hope to receive them in time to send them to you before you go abroad.

.With kindest regards, as always,

Very sincerely yours,

R.P. Bigelow