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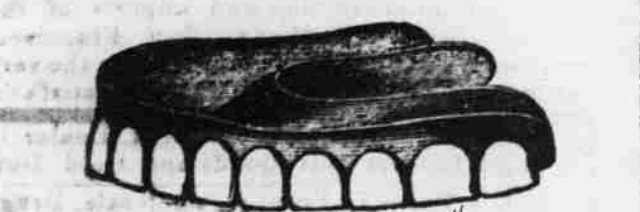
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TERMS, REASONABLE.

T. G. RICHMOND

THE WONDERS OF THE EGG.

In the radiates, the lowest type of  
the animal kingdom, the eggs are most-  
ly microscopic. I shall have more to  
say of them hereafter, and of other  
modes of reproduction common to this  
type. Before entering upon this part  
of my subject I wish to make a broad  
experimental statement about all eggs  
and all animals. These eggs, whether  
of vertebrate, articulate, mollusk, or  
radiate, appear at some time or other to  
be identical in structure. At least, no  
investigator has ever been able to de-  
tect any essential difference in them.  
They are all formed in an organ be-  
longing to the maternal being, known  
as the ovary. In some animals this  
organ is very simple. Whatever its  
structure, however, whether complex  
or simple, there is a spot in the female  
organism known as the ovary, in which  
eggs are formed, from which new  
beings may be developed. But before  
the egg develops into the new being,  
it must be fecundated. For what I have  
said thus far with reference to absolute  
identity of egg structure throughout  
the animal kingdom refers only to the  
egg as egg, before the process of fe-  
cundation takes place. There is an  
organ in the male organisms, corre-  
sponding to the ovary in the female  
organisms; in which sperm cells are  
formed, the contact of the contents of  
which with an ovarian egg is an in-  
dispensable condition for the growth  
of a new being. There are no animals  
known in which these corresponding  
organs do not exist.

Reproduction in the vegetable kingdom  
is based on similar structures with sim-  
ilar relations to one another. These  
two conditions, essential to the main-  
tenance of types, should be well  
weighed by any one who would ap-  
proach the problem of the origin of  
life.

Before showing you the structure of  
the egg proper, as it exists in all ani-  
mals before it takes upon itself any  
individual character, I will say a word  
on other modes of reproduction, in  
order that you may have before you  
the whole subject, and that I may not  
be limited in my comparison to the  
ovarian eggs and fertilizing cells, but  
be able to include budding and self-  
division among the reproductive pro-  
cesses.

With radiates, especially among the  
hydroids, multiplication by buds and  
by self division is common. An indi-  
vidual such as I sketch on the board  
(hydroid), puts out a bud from the  
main trunk. This bud grows into an  
individual similar to the parent, and it  
gives rise in its turn to a number of  
buds which go on multiplying in the  
same way till a large community is  
formed. In other instances such buds  
may drop off, and become free, indi-  
viduals. Sometimes again, new indi-  
viduals arising in this way differ from  
the parent, and only in their offspring  
reproduce a being resembling  
the one from which they sprang.  
Many hydroids, and even some of the  
acelephs, multiply by a still more simple  
process—that of self division. The  
primitive stock breaks up transversely at  
regular intervals by constriction, and  
each such part, when thrown off,  
becomes a new individual, while the  
parent remains unimpaired in its vital-  
ity.

Certain worms, also, multiply in  
this way, dividing into parts, and each  
part building itself up into a new and  
perfect being. Instances are also  
known of longitudinal division leading  
to the same result. Not only is it true  
that there are other modes of repro-  
duction besides that of eggs, but it is also  
a fact that the antagonism between male  
and female, on which the whole processes  
of multiplication and increase among  
animals seems to rest, is not always  
necessary for the production of a new  
individual.

There are cases in which the germ is  
formed, and passes through all the  
changes until it reaches the adult  
condition without being fecundated at  
all. We owe this discovery to Liebold,  
who followed the whole history of the  
unfecundated egg in species of moths,  
with an ingenuity and perseverance  
which leave no possibility of doubt as  
to his results. There are also cases  
which exhibit an essential difference  
in the product of a fecundated egg and  
of one which has not been fecundated.  
Upon such difference rests, for instance,  
the whole economy of the bee commu-  
nity. All the eggs laid by the queen  
before prior to copulation produce males,  
and these males are what are called  
drones. The working bees are unde-  
veloped females, and are the product  
of fecundated eggs. What is called  
the queen is the result of a special  
training of one of these imperfect fe-  
males, the workers choose one of their  
number, and, by peculiar treatment and  
mode of feeding, etc., develop her into  
a perfect queen whose office it is to  
multiply the community. There are  
also some butterflies which produce  
perfect male and female individuals  
from non-fecundated eggs.

The young shark is favored at his  
birth with what seems to be an egg.  
It is, however, a bag of nourishment,  
supplied by the maternal parent, which  
keeps him in food until he is able to  
set up in business for himself.

What now, we would ask, is the  
significance of an egg? Is the egg itself  
an individual? Is it a new being? I  
think as we go on we shall be brought  
to the conclusion that the egg is the  
new being, endowed with an individu-  
ality, that is with a typical character  
so distinct that never since the world  
began did the egg of any one animal  
produce an animal differing from the  
parent in essential features, or the seed  
of any plant produce anything differ-  
ing essentially from the plant which  
bore it.

Whatever phases an egg passes  
through, however much it transiently re-  
sembles the adult condition of some  
animal lower than itself in the same  
type, it never ends by producing anything  
but the kind of animal from which it  
arose. There is not a solitary instance  
on record of a deviation from that ever  
recurring cycle of development which  
shows a succession of specifically  
identical individuals as the result of  
reproduction, whether through eggs,  
budding or division. There are no  
other modes of multiplication known.

An egg does not necessarily lead to  
the formation of one single being,  
the egg of the natica, for instance, often  
divides to form several individuals,  
though it may also develop as one  
being. In many instances, however,  
the natica egg, beginning as one yolk  
breaks up into two, four, or more,  
one primitive individuality thus divi-  
ding and transmitting its peculiarities  
to a generation more numerous than  
itself. This is not the case when  
double birth takes place in higher ani-  
mals, in the mammalia for instance.  
Each individual is in that instance the  
growth of a separate egg. So in mon-  
strosities in the quadrupeds, where  
double heads and the like abnormal  
developments occur; they come from  
merging of the eggs together. The  
multiplying of individuals in one egg  
seems more like the process of repro-  
duction by self division, as in hydroids  
and worms; only in the latter it is a  
kind of reconstruction of lost parts,  
while in the former it is the imperative  
egg growing into several being. The  
more we examine these various pro-  
cesses of multiplication among animals,  
the more are we impressed with the  
fact that the maintenance of kind, the  
fixedness of features in the organic  
world, is their primary object and  
inevitable result. At least that is the  
conclusion to which all my own studies  
in embryology have brought me.

The reproduction of individuals does  
not go on constantly. It is periodical  
and this periodicity varies in different  
animals. Some animals require a long  
development of themselves before they  
produce eggs. Others lay eggs very  
early in life. Fowls begin to lay the  
first year after their birth. Fresh wa-  
ter turtles do not bear young before  
their tenth or eleventh year, sometimes  
not till their twelfth. In our common  
black and yellow dotted fresh water  
terrapin, and in the black terrapin,  
the eggs require four years of  
growth before they are laid. Take a  
seven year old turtle of this kind; it  
will contain only very small eggs, all  
of uniform size. An eight year old  
turtle of the same kind will have two  
sets of eggs, one larger and one smaller.  
One of nine years will have three sets,  
the oldest set being the size of a small  
pea. A turtle of ten years will have  
four sets of eggs, and in that year she  
will lay for the first time, and give  
birth to the most mature set.

Other animals require but a few  
weeks to bring their eggs to full maturity.  
In our common jelly fishes, for instance,  
with rose colored ovaries, the eggs  
begin in May. In July they are all  
laid and the young begin their inde-  
pendent life. The season of laying  
differs greatly in different animals.  
Some lay their eggs in spring, others  
in midsummer, others, as the trout  
family, salmon and the like in autumn.

The irregularity of number is  
another astonishing feature of this  
problem of reproduction. It would  
seem that some kinds of animals re-  
quire a far greater number of individu-  
als for the maintenance of the type  
than others. Some animals multiply  
by hundreds of thousands—nay,  
by millions. Others bring forth a  
single new being, or at the most two  
or three at a time. Some animals bear  
but once and then die. Others, more  
tenacious of life, bring forth  
new broods for a long period of years.  
These various conditions, of growth  
duration, and ripening these extraor-  
dinary difference in the power of multi-  
plication and reproduction, are no  
doubt a necessary part of the economy  
of the whole animal kingdom. There  
is nothing variable or capricious about  
it, and we must not forget that whoever  
would account for the origin or suc-  
cessive introduction of the different  
types of organized beings which have  
followed one another upon earth must  
include in his explanation the whole  
scheme by which characteristics are  
continued and transmitted.

Before closing, and as a preparation  
for my next lecture, I will show you  
what is the ovarian egg. (Drawing  
on the blackboard.) It is microscopic  
in many animals; but whatever its size  
it consists of an outer bag filled with a  
semitransparent fluid, which is some-  
what oily, and an inner bag also filled  
with a transparent fluid, which is  
chiefly albuminous. The difference in  
the character of the two fluids  
gives greater translucence to that  
which fills the inner sac.

Within the inner bag there is a spot  
of dot, sometimes several of them, more  
or less distinct. In this condition all  
the eggs I have shown you, all eggs  
born of whatever living creature, are  
alike.

It appears from official statistics  
published in the Moscow Gazette,  
that only 9 per cent of the population  
of Russia are able to read; and that  
excluding Poland and the Caucasus,  
and the cities of St. Petersburg and  
Moscow, there are only six hundred  
and twenty four agencies, for the dis-  
semination of literature, including book  
shops, public libraries, and newsrooms  
amongst a population of 55,000,000;  
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INTELLECTUAL CULTURE

The consideration of the development  
and growth of the intellect furnished  
the only true principles by which to  
regulate the culture of the intellect, and  
to arrange the order in which the differ-  
ent branches of knowledge should be  
studied.

The studies which should be first  
pursued are those which require and  
discipline the powers of observation and  
acquisition, and which involve imagina-  
tion and memory, in contrast with  
those which demand severe efforts and  
trained habits of thought. Inasmuch,  
also, as material objects are appre-  
hended and mastered in early life  
with far greater ease and success than  
the acts and states of the spirit, objec-  
tive and material studies should have  
almost the exclusive precedence. The  
capacity of exact and discriminating  
perception, and of clear and retentive  
memory, should be developed as largely  
as possible. The imagination, in all its  
forms, should be directed and elevated  
—we do not say stimulated, because, in  
the case of most children, its activity  
is never-tiring, whether they be at  
study, work, or play.

We do not say, cultivate perception,  
memory, and fancy, to the exclusion of  
repression of thought, for this is impossi-  
ble. These powers, if exercised by  
human beings, must be interpreted  
by thought. If wisely cultivated by  
studies properly arranged, they will  
necessarily involve discrimination, com-  
parison, and explanation. To teach  
pure observation, or the mastery of  
objects or words, without classification  
and interpretation, is to be ignorant  
even to simple stupidity. But, on the  
other hand to stimulate the thought-  
processes to unnatural and prematurely  
painful efforts, is to do violence to the laws  
which nature has written in the consti-  
tution of the intellect. Even thought  
and reflection teach us that  
before the processes of thought  
can be applied, materials must be  
gathered in large abundance; and to  
provide for these, Nature has made  
acquisition and memory easy and spon-  
taneous for childhood, and reasoning  
and science difficult and unnatural.

The study of language should be  
prosecuted in childhood, as it is, in  
fact, in the acquisition of the mother-  
tongue. In the acquisition of other  
languages the methods by which the  
vernacular is learned should be follow-  
ed as far as possible. Grammar, so far  
as it is required, should be simple, plain,  
and practical. Its theories should be kept  
in the background; its terminology and  
principles should be the reverse of the  
abstract. The contrasts and compari-  
sons involved between the strange and  
the familiar, will stimulate and guide to  
the first beginnings of reflective gram-  
mar. The memory for words should be  
exercised and stimulated. Choice tales,  
poems, narrative and lyric, should be  
learned for recitation. Natural history  
in all its branches, as contrasted with  
the objects before the eye—flowers,  
minerals, shells, birds, and beasts.  
These studies should all be mastered in  
the spring time of life, when the tastes  
are simple, the heart is fresh, and the  
eye is sharp and clear. The facts of  
history and geography should be fixed  
by repetition, and stored away in  
order.

But science of every kind, whether  
of language, of nature, of the soul, or  
of God, as science, should not be pre-  
maturely taught. For the consequence  
is, either disgust and hostility to all  
study on the one hand, or on the other,  
superficial thinking, presumptuous con-  
ceit, and, worst of all, sated curiosity.  
The law of intellectual progress invol-  
ves effort and discipline severely im-  
posed and constantly maintained, but  
the effort and discipline should follow  
the guidance of nature.—From Porter's  
Human Intellect.