



2012 Biochemical
MAY Evidence.

MONDAY 28

Wk 22 • 149-217

30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
M	T	W	T	F	S	S

APRIL 2012

9 am During evolution, the
10 am change of structure is always
11 am accompanied by physiological
12 noon and biochemical changes.

1 pm All living organism are
2 pm basically built on one
3 pm substance protoplasm in the
4 pm cell. All the plants and
5 pm animals on biochemical
6 pm level are reduced C, H, N,
and O, which they form
Carbohydrate, fats, proteins
which are fundamental

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2012

MAY

TUESDAY

29

150 216 • Wk 22

JUNE 2012

constituent

of the protoplasm. Therefore

The variation of functions of cells are more due to adap-

tation. It is well known that

the activity of cell or organism

is basically controlled by the

chromosome, which are

characteristically composed

of some basic substances. i.e.

the nucleic acid like DNA or

RNA. All these facts clearly

point that all the living

organisms originated from

same ancestor.

Example - The chemical composition and physiological fⁿ of the enzymes and hormones are closely identical among organisms.

A protein splitting enzyme

Trypsin is found from

protozoans to mammals and

the starch splitting amylase

from mammals to porifera.

Insulin, extracted from

other mammals is used in

diabetic human beings.

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JUNE 2012

2012

MAY

THURSDAY

152-214 • Wk 22

The Thyroid

31

9 am

hormone is similar in all vertebrates.

10 am

Serum albumin molecule

11 am

is one of the ancestral mole-

12 noon

cules that is present in the

1 pm

ancestor of chimpanzees and

2 pm

man. As proteins evolved over

3 pm

time, therefore, from the time

4 pm

that the human and chimpanzee

5 pm

lineages separated, their

6 pm

albumins have had the

opportunity of evolving

independently. Until today

two proteins are still

01 May are

28 29 30 31
MAY 2012

9 am

10 am

11 am

12 noon

1 pm

2 pm

3 pm

4 pm

5 pm

6 pm

recognizable as different, but homologously related molecules. This property is used in preparing an immunological time scale.

* The body fluid and tissue especially the blood of diff^t animals plays an imp^t role in furnishing such evidence. The precipitation method is widely used in finding out

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	
M	T	W	T	F	S	S

JUNE 2012

2012
MAY
THURSDAY
152-214 • Wk 22

The Thyroid 31

9 am

hormone is similar in all vertebrates.

10 am

11 am

12 noon

1 pm

2 pm

3 pm

4 pm

5 pm

6 pm

Serum albumin molecule is one of the ancestral molecules that is present in the ancestor of chimpanzees and man. As proteins evolved over time, therefore, from the time that the human and chimpanzee lineages separated, their albumins have had the opportunity of evolving independently. Until today

2012

JUNE

FRIDAY

Wk 22 • 153-213

01 May are

14	15	16	17	18	19	20
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M	T	W	T	F	S	S

MAY 2012

9 am

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JULY 2012

2012

JUNE

SATURDAY

154.212 • Wk 22

Such evidences. **02**

9 am In this method human blood is allowed to clot in a dish and serums are then injected to the Rabbit. The Rabbit's blood develops antibodies against human blood. After some days, the blood is collected from the body of Rabbit and allowed to clot. The serum is then preserved. It is anti-human serum. When anti-human serum is injected in the blood of dog or cat the precipitation does not

SUNDAY 03

9 am

10 am

11 am

12 noon

1 pm

2 pm

3 pm

4 pm

5 pm

6 pm

When the serum is mixed with that of primates (apes and

monkey) precipitation is very frequent, This

indicates that man is more closely related to apes and

than dog or cat.

~~In case~~

All these observations

prove one aspect of evolution

i.e. all organisms

have common origin.

In case of plants, so

some physiological process

or byproducts 05

and end-products of plant metabolism are very much similar in certain groups of plants. For instance, all green plants normally transpire or photosynthesize; glycogen is stored up as reserve carbohydrate food in almost all the fungi, resins are found in pines and other allied members. The chlorophyll is especially associated with the process photosynthesis, carried on

JUNE

WEDNESDAY

Wk 23 • 158-208

06 by all green plants.

21	22	23	24	25	26	27
28	29	30	31			
M	T	W	T	F	S	S

MAY 2012

9 am

The chemical composition of

10 am

the diff^t components present

11 am

in the chlorophyll are also

12 noon

very specific.

1 pm

Thus, these facts of bio-

2 pm

Chemistry mentioned

3 pm

above strongly support

4 pm

the theory of organic

5 pm

evolution.

6 pm

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