



# ETCSA

East Tennessee Creation Science Association

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## Plant Evolution - Cabbage by Mark Stewart

Some forms of life, which one would not readily suspect belong to the same natural species, are found by breeding experiments actually to be so. A few of the many varieties of the species to which the cabbage belongs – the most widely variable vegetable species known: wild cabbage, kohlrabi, brussels sprouts, collards, kale, cauliflower, conical cabbage, savoy cabbage, broad-leaf cabbage. These varieties are impossible to distinguish in the early stages of growth, and the flowers, seed-pods and seeds are identical. The important thing is that the hundred or so varieties of this natural species cross readily with one another and produce fertile seed, but cross with any other natural species with greatest difficulties. Who would hastily think, merely by looking at

them, that "cabbage" forms are so readily interfertile as to constitute one natural species. There are many varieties of the species to which cabbage belongs, and these varieties are all so readily fertile with one another that it is hard to keep a cabbage field of one pure variety if it is near the field of another. Cabbages will not cross with the two species which are most similar to them, turnip and rape. Yet a cabbage was managed to get pollen and to fertilize a radish ovum. From this there came a plant monstrosity which grew and grew in the greenhouse, but was never able to produce a flower. The germ cells of the two distinct species, cabbage and radish, were able to unite, and the different elements in the germ

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## DEVOTIONAL THE RELIABILITY OF NATURE

“While the earth remaineth, seedtime and harvest, and cold and heat, and summer and winter, and day and night shall not ease” (Genesis 8:22). We are so accustomed to the regularity of the seasons and the various time-constants of nature (e.g., the length of the day and the year), we rarely stop to think how important all this is. When the sun goes down each evening,

we are not disturbed, because we know it will rise the next morning; when winter settles over the hemisphere, we are confident that the spring will return in due time. But if it were not so, life would soon become extremely difficult. Science and technology, which are based on the assumption that like causes produce like effects, would

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### Special points of interest:

- *January meeting: 20th, at First Baptist, Concord, Fireside Room, 6:30 PM*
- *February meeting: 17th, at First Baptist, Concord, Fireside Room, 6:30 PM*
- *February 27-29: Kent Hovind will be speaking at Calvary Baptist Church. (865) 523-9419 for more details.*
- *Answers in Genesis seminar coming in May.*
- *July 17-21: Origins 2000 Conference at Bryan College. For more info, see, [www.bryan.edu/origins2000](http://www.bryan.edu/origins2000)*

## In History (continued from volume 1, issue 7)

**1867**, Karl Marx (founder of communism and socialism) published *Das Kapital* and tried to dedicate it to Charles Darwin.

**1871**, Congress scrapped all treaties with the Indians and moved them to reservations. Our leaders believed them to be “inferior savages.”

**1862-96**, Herbert Spencer wrote *Programme of a System of Synthetic Philosophy* to apply the theory of evolution to many other areas of life such as sociology and psychology. His work influenced Hitler.

**1899**, Ernst Haeckel published *The Riddle of the Universe* to support the theory of evolution. His recapitulation theory was later proven false because it was based on “faked” embryo drawings. (Yet, these embryo drawings are still in many science textbooks today!) He was also the first to use “family trees” to support his theories. His work greatly influenced Adolf Hitler.

**1917**, Russia fell to Communism. The new communist leaders were avid evolutionists. Millions of “unfit” were killed.

**1925**, John Scopes was found guilty of violating Tennessee’s law prohibiting the teaching of evolution. Famous atheist Clarence Darrow defended Scopes against William J. Bryan. This famous trial was held in Dayton, Tennessee and is often called the “Scopes Monkey Trial.”

**1933**, Adolf Hitler rose to power in Germany. His racist attitude was a result of his belief in the theory of evolution. Over 6 million “Inferior Jews” were killed to help the evolution of the human race.

**1933**, The *Humanist manifesto* was published.

**1949**, China fell to communism with many millions

killed.

**Oct. 1957**, Russia launched Sputnik I. Many Americans panicked at the thought of being beaten in the space race. Since Russian textbooks had long been based on evolution, some zealous evolutionists used the occasion to call for more evolution to be included in the U.S. textbooks.

**1959**, U.S. Gov. published science textbooks that are based on the theory of evolution. Books that has 3000 words devoted to evolution were replaced by books with 33,000 words about the theory of evolution!

**1963**, Prayer was taken out of public schools by the U.S. Supreme Court.

**1968**, The Supreme Court ruled that laws banning evolution were unconstitutional.

**1972**, South Viet Nam fell to Communism. As is always the case when evolutionist philosophy rules, thousands of “inferior” people were killed.

**1972**, I.B.M. developed the “bar code” used today on nearly all products. This code starts with a #6, has a #6 in the center and ends with a #6.

**1975-79**, Nearly half of Cambodia’s 8 million people were purged by Pol Pot, the leader of the Khmer Rouge. Pol Pot is an ardent believer in the theory of evolution.

**1985-89**, Implantable **Biochip** transponder was developed. It can be implanted under the skin of the right hand or forehead of those who worship the Beast. Hughs Aircraft Corp. is the largest marketer of these chips. (See Rev. 13:16-18)

From Kent Hovind’s Seminar Notebook (1998 ed.)

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## Quotes

“Scientists who go about teaching that evolution is a fact of life are great con-men, and the story they are telling may be the greatest hoax ever. In explaining evolution, we do not have one iota of fact.” —Dr. T. N. Tahmisian, Atomic Energy Commission, USA

“The Big Bang is presumed to have produced just hydrogen and helium, only 2 of the 92 elements of the earth’s crust.” —Dr. Robert V. Gentry, Research Physicist

“I myself am convinced that the **theory of evolution**, especially the extent to which it’s being applied, will be one of the **great jokes** in the history books of the future. Posterity will marvel that so flimsy and dubious an hypothesis could be accepted with the incredible credulity that it has.” —Malcolm Muggeridge, journalist and philosopher, Pascal Lectures, University of Waterloo, Ontario, Canada

“It is impossible to rightly govern ...without God and the Bible.” —George Washington

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cells were elastic enough to adjust themselves to one another sufficiently well to produce a plant body, but were not able to adjust themselves well enough together to produce such delicate and vital structures as the flowers. Cabbages, according to evolutionary theory, are closely related to the turnip and the rape. All three are said to have evolved out of the same branch on the evolutionary tree, and are therefore classed in the same genus (*Brassica*). Radishes, because they are so different from the cabbage, rape, and turnip, are said to have come from a totally different branch of the evolutionary tree. Yet cabbage and radishes will form hybrids, while cabbages and their near relatives, rapes and turnips, will not. Surely here is a "strange arrangement". How would Darwin explain it? Radishes and cabbages each have the same number of chromosomes (9) while rapes and turnips do not. Reference was made above to a cross between a cabbage and a radish, which produced a hybrid plant, which grew and grew, but would not produce flowers or seeds. Such was the case for several years. The hybrid could produce no flowers. It was kept alive only by "vegetative reproduction", that is, by cutting off branches from the plant and rooting them. Finally flowers did appear and produced seeds, and when the seeds were planted they brought forth plants like the hybrid itself, and these plants continued to breed true to form. This, the evolutionists call "the creation of new species". But it is not the creation of new species in any real sense, for it is nothing but the making of one out of two, or the combination of old material which already existed to form something else. Furthermore the raddish-cabbage hybrid did not persist but reverted or perished, as all other intergeneric hybrids do in time. Both of these forms, the raddish and the cabbage had the same number of chromosomes, 18. The hybrids also had 18 chromosomes, 9 from the

radish and 9 from the cabbage. Nearly all of these hybrids were sterile, but under favorable conditions some produced a few seeds. Some of these germinated and produced plants like the hybrid parents; others were intermediate between it and the radish parent. Those which resembled the hybrid were found to have 36 chromosomes, the sum of the chromosome numbers of the two parent species. They were thus tetraploid hybrids with 2 pairs of each chromosome (instead of 1 pair as in a diploid) and proved not only to unite certain characters from both parents but also to be fully fertile and to breed true to the hybrid and tetraploid characters. The hybrid is known as *Raphanobrassica*, since it is a combination of the radish, *Raphanus sativus*, and the cabbage, *Brassica oleracea*.

A careful study of these experiments showed that when the reproductive cells of the raddish-cabbage hybrid were formed, the 18 chromosomes were usually distributed at random so that each cell received from 6 to 12 chromosomes. Such gametes were not functional, and this accounts for the fact that very few seeds were produced. Occasionally, however, cell division was abnormal, so that a few gametes were produced which contained all 18 chromosomes, 9 from the radish and 9 from the cabbage. Undoubtedly, the true breeding tetraploid was the result of the union of 2 such gametes, so that its 36 chromosomes consisted of 18 from the raddish and 18 from the cabbage. In cell division the 9 pairs of radish chromosomes lined up together with the 9 pairs of cabbage chromosomes. In this way a new set of characters was perpetuated in a fertile intergeneric hybrid breeding true to its own type and infertile with both parents.

The raddish and the cabbage, both represent genera of the Mustard family. To my knowledge, among plants, members of two different families have not been crossed.

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## THE MONKEY'S DISGRACE

Three monkeys sat in a coconut tree,  
Discussing things as they are said to be.  
Said one to the other, "Now listen, you two,  
There's a rumor around that can't be true.  
That man descended from our noble race,  
The very idea is a great disgrace.  
No monkey has ever deserted his wife,  
Starved her babies and ruined her life.

And you've never known a mother monk  
To leave her babies with others to bunk.  
Or pass from one on to another  
Till they scarcely know who is their mother.  
Here's another thing a monkey won't do  
Go out at night and get in a stew  
Or use a gun or club or knife  
To take some other monkeys life.  
Yes, man descended, that ornery cuss  
But, brother, he didn't descend from us"

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**We're on the Web!**  
[www.etcsa.org/](http://www.etcsa.org/)



# ETCSA

“Set in the Defense of Creation Science”

### Upcoming events:

Jay Horn with Answers in Genesis is scheduled to be at our meeting on Jan 20th. He is also going to bring Geoff Stevens. Jay will give us a brief seminar overview and then Geoff will give one of his talks on Genesis, dinosaurs and the Bible, creation evangelism, or a mixture of those. For those members who are home schoolers, this would be an excellent meeting to bring your children to and also for those who have children in public or private school.

**Darwin Day at UT.** We will have 3 days to give out info, Jan 24, and Feb 9th and 10th. Please let us know if you can help man the booth.

**Answers in Genesis seminar:** There will be several committees which need volunteers. Please let us know if you will be able to help.  
(865) 376-5186 or kentsie@esper.com

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be impossible. These basic physical constants (the earth's rotation controlling the length of the day, the earth's orbit controlling the year, and the earth's axial inclination controlling the seasons), in turn, control most other physical and biological processes on the earth. Scientists, however, have no explanation as to why these constants are what they are. There is no better answer than that they are gifts of God's grace. As a matter of fact, this present uniformity of nature dates only from the end of the great Noachic Flood, which marked a tremendous discontinuity in the processes of nature as they had functioned previously. God's promise to Noah of post-Flood continuity, as summarized in the words of our text, has been kept faithfully now for over 4,000 years.

All of God's wonderful creation gives a daily testimony to His faithfulness: "The living God, which made heaven, and earth, and the sea, and all things that are therein: . . . left not Himself without witness, in that He did good, and gave us rain from heaven, and fruitful seasons, filling our hearts with food and gladness" (Acts 14:15,17), and we should thank Him for it! Henry M Morris