

The Worldview of Jurassic Park - A Biblical Christian Assessment

Dr. Bohlin examines the message of Jurassic Park, bringing out some of the underlying messages on science, evolution, new age thinking, and cloning. The movie may be entertaining, but a Christian scientist points out some of the misconceptions people are taking away from the movie. Remember, this is just a piece of fiction—not a scientific treatise.

The Intent Behind *Jurassic Park*

Driving home after seeing the movie *Jurassic Park* in the first week of its release, I kept seeing tyrannosaurs and velociraptors coming out from behind buildings, through intersections, and down the street, headed straight at me. I would imagine: What would I do? Where would I turn? I certainly wouldn't shine any lights out of my car or scream. Dead give-aways to a hungry, angry dinosaur. Then I would force myself to realize that it was just a movie. It was not reality. My relief would take hold only briefly until the next intersection or big building.

In case you can't tell, I scare easily at movies. *Jurassic Park* terrified me. It all looked so real. Steven Spielberg turned out the biggest money-making film in history. Much of the reason for that was the realistic portrayal of the dinosaurs. But there was more to *Jurassic Park* than great special effects. It was based on the riveting novel by Michael Crichton and while many left the movie dazzled by the dinosaurs, others were leaving with questions and new views of science and nature.

The movie *Jurassic Park* was terrific entertainment, but it was entertainment with a purpose. The purpose was many-fold and the message was interspersed throughout the movie, and more so throughout the book. My purpose in this essay is to give you some insight into the battle that was waged for your mind throughout the course of this movie.

Jurassic Park was intended to warn the general public concerning the inherent dangers of biotechnology first of all, but also science in general. Consider this comment from the author Michael Crichton:

Biotechnology and genetic engineering are very powerful. The film suggests that [science's] control of nature is elusive. And just as war is too important to leave to the generals, science is too important to leave to scientists. Everyone needs to be attentive.{1}

Overall, I would agree with Crichton. All too often, scientists purposefully refrain from asking ethical questions concerning their work in the interest of the pursuit of science.

But now consider director Steven Spielberg, quoted in the pages of the *Wall Street Journal*: "There's a big moral question in this story. DNA cloning may be viable, but is it acceptable?"{2} And again in the *New York Times*, Spielberg said, "Science is intrusive. I wouldn't ban molecular biology altogether, because it's useful in finding cures for AIDS, cancer and other diseases. But it's also dangerous and that's the theme of *Jurassic Park*."{3} So Spielberg openly states that the real theme of *Jurassic Park* is that science is intrusive.

In case you are skeptical of a movie's ability to communicate this message to young people today, listen to this comment from an eleven-year-old after seeing the movie. She said, "Jurassic Park's message is important! We shouldn't fool around with nature."{4} The media, movies and music in

particular, are powerful voices to our young people today. We cannot underestimate the power of the media, especially in the form of a blockbuster like *Jurassic Park*, to change the way we perceive the world around us.

Many issues of today were addressed in the movie. Biotechnology, science, evolution, feminism, and new age philosophy all found a spokesman in *Jurassic Park*.

The Dangers of Science, Biotechnology, and Computers

The movie *Jurassic Park* directly attacked the scientific establishment. Throughout the movie, Ian Malcolm voiced the concerns about the direction and nature of science. You may remember the scene around the lunch table just after the group has watched the three velociraptors devour an entire cow in only a few minutes. Ian Malcolm brashly takes center stage with comments like this: "The scientific power....didn't require any discipline to attain it....So you don't take any responsibility for it." {5} The key word here is responsibility. Malcolm intimates that *Jurassic Park* scientists have behaved irrationally and irresponsibly.

Later in the same scene, Malcolm adds, "Genetic power is the most awesome force the planet's ever seen, but, you wield it like a kid that's found his dad's gun." Genetic engineering rises above nuclear and chemical or computer technology because of its ability to restructure the very molecular heart of living creatures. Even to create new organisms. Use of such power requires wisdom and patience. Malcolm punctuates his criticism in the same scene when he says, "Your scientists were so preoccupied with whether or not they could, they didn't stop to think if they should."

Malcolm's criticisms should hit a raw nerve in the scientific community. As Christians we ask similar questions and raise similar concerns when scientists want to harvest fetal tissue for research purposes or experiment with human embryos. If Malcolm had limited his remarks to *Jurassic Park* only, I would have no complaint. But Malcolm extends the problem to science as a whole when he comments that scientific discovery is the rape of the natural world. Many youngsters will form the opinion that all scientists are to be distrusted. A meaningful point has been lost because it was wielded with the surgical precision of a baseball bat.

Surprisingly, computers take a more subtle slap in the face- surprising because computers were essential in creating many of the dinosaur action scenes that simply could not be done with robotic models. You may remember early in the movie, the paleontological camp of Drs. Grant and Satler where Grant openly shows his distrust of computers. The scene appears a little comical as the field-tested veteran expresses his hate for computers and senses that computers will take the fun out of his quaint profession.

Not so comical is the portrayal of Dennis Nedry, the computer genius behind *Jurassic Park*. You get left with the impression that computers are not for normal people and the only ones who profit by them or understand them are people who are not to be trusted. Nedry was clearly presented as a dangerous person because of his combination of computer wizardry and his resentment of those who don't understand him or computers. Yet at the end of the movie, a young girl's computer hacking ability saves the day by bringing the system back on line.

The point to be made is that technology is not the villain. Fire is used for both good and evil purposes, but no one is calling for fire to be banned. It is the worldview of the culture that determines how computers, biotechnology, or any other technology is to be used. The problem with *Jurassic Park* was the arrogance of human will and lack of humility before God, not technology.

The Avalanche of Evolutionary Assumptions

There were many obvious naturalistic or evolutionary assumptions built into the story which, while not totally unexpected, were too frequently exaggerated and overplayed.

For instance, by the end of the book and the film you felt bludgeoned by the connection between birds and dinosaurs. Some of these connections made some sense. An example would be the similarities between the eating behavior of birds of prey and the tyrannosaur. It is likely that both held their prey down with their claws or talons and tore pieces of flesh off with their jaws or beaks. A non-evolutionary interpretation is simply that similarity in structure indicates a similarity in function. An ancestral relationship is not necessary.

But many of the links had no basis in reality and were badly reasoned speculations. The owl-like hoots of the poison-spitting dilophosaur jumped out as an example of pure fantasy. There is no way to guess or estimate the vocalization behavior from a fossilized skeleton.

Another example came in the scene when Dr. Alan Grant and the two kids, Tim and Lex, meet a herd of gallimimus, a dinosaur similar in appearance to an oversized ostrich. Grant remarks that the herd turns in unison like a flock of birds avoiding a predator. Well, sure, flocks of birds do behave this way, but so do herds of grazing mammals and schools of fish. So observing this behavior in dinosaurs no more links them to birds than the webbed feet and flattened bill of the Australian platypus links it to ducks! Even in an evolutionary scheme, most of the behaviors unique to birds would have evolved after the time of the dinosaurs.

A contradiction to the hypothesis that birds evolved from dinosaurs is the portrayal of the velociraptors hunting in packs. Mammals behave this way, as do some fishes such as the sharks, but I am not aware of any birds or reptiles that do. The concealment of this contradiction exposes the sensational intent of the story. It is used primarily to enhance the story, but many will assume that it is a realistic evolutionary connection.

Finally, a complex and fascinating piece of dialogue in the movie mixed together an attack on creationism, an exaltation of humanism and atheism, and a touch of feminist male bashing. I suspect that it was included in order to add a little humor and to keep aspects of political correctness in our collective consciousness. Shortly after the tour of the park begins and before they have seen any dinosaurs, Ian Malcolm reflects on the irony of what *Jurassic Park* has accomplished. He muses, "God creates dinosaurs. God destroys dinosaurs. God creates man. Man destroys God. Man creates dinosaurs." To which Ellie Satler replies, "Dinosaurs eat man. Woman inherits the earth!" Malcolm clearly mocks God by indicating that not only does man declare God irrelevant, but also proceeds to duplicate God's creative capability by creating dinosaurs all over again. We are as smart and as powerful as we once thought God to be. God is no longer needed.

While the movie was not openly hostile to religious views, Crichton clearly intended to marginalize theistic views of origins with humor, sarcasm, and an overload of evolutionary interpretations.

***Jurassic Park* and the New Age**

Ian Malcolm, in the scene in the biology lab as the group inspects a newly hatching velociraptor, pontificates that "evolution" has taught us that life will not be limited or extinguished. "If there is one thing the history of evolution has taught us, it's that life will not be contained. Life breaks free. It expands to new territories, it crashes through barriers, painfully, maybe even dangerously, but, uh, well, there it is!....I'm simply saying that, uh, life finds a way."

Evolution is given an intelligence all its own! Life finds a way. There is an almost personal quality given to living things, particularly to the process of evolution. Most evolutionary scientists would not put it this way. To them evolution proceeds blindly, without purpose, without direction. This intelligence or purposefulness in nature actually reflects a pantheistic or new age perspective on the biological world.

The pantheist believes that all is one and therefore all is god. God is impersonal rather than personal and god's intelligence permeates all of nature. Therefore the universe is intelligent and purposeful. Consequently a reverence for nature develops instead of reverence for God. In the lunch room scene Malcolm says, "The lack of humility before nature being displayed here, staggers me." Malcolm speaks of Nature with a capital "N." While we should respect and cherish all of nature as being God's creation, humility seems inappropriate. Later in the same scene, Malcom again ascribes a personal quality to nature when he says, "What's so great about discovery? It's a violent penetrative act that scars what it explores. What you call discovery, I call the rape of the natural world." Apparently, any scientific discovery intrudes upon the private domain of nature. Not only is this new age in its tone, but it also criticizes Western culture's attempts to understand the natural world through science.

There were other unusual new age perspectives displayed by other characters. Paleobotanist Ellie Satler displayed an uncharacteristically unscientific and feminine, or was it New Age, perspective when she chastened John Hammond for thinking that there was a rational solution to the breakdowns in the park. You may remember the scene in the dining hall, where philanthropist John Hammond and Dr. Satler are eating ice cream while tyrannosaurs and velociraptors are loose in the park with Dr. Grant, Ian Malcolm, and Hammond's grandchildren. At one point, Satler says, "You can't think your way out of this one, John. You have to feel it." Somehow, the solution to the problem is to be found in gaining perspective through your emotions, perhaps getting in touch with the "force" that permeates everything around us as in *Star Wars*.

Finally, in this same scene, John Hammond, provides a rather humanistic perspective on scientific discovery. He is responding to Ellie Satler's criticisms that a purely safe and enjoyable *Jurassic Park*, is not possible. Believing that man can accomplish anything he sets his mind to, Hammond blurts out, "Creation is a sheer act of will!" If men and women were gods in the pantheistic sense, perhaps this would be true of humans. But if you think about it, this statement is truer than first appears, for the true Creator of the universe simply spoke and it came into being. The beginning of each day's activity in Genesis 1 begins with the phrase, "And God said."

Creation is an act of will, but it is the Divine Will of the Supreme Sovereign of the universe. And we know this because the Bible tells us so!

They Clone Dinosaurs Don't They?

The movie *Jurassic Park* raised the possibility of cloning dinosaurs. Prior to the release of the movie, magazines and newspapers were filled with speculations concerning the real possibility of cloning dinosaurs. The specter of cloning dinosaurs was left too much in the realm of the eminently possible. Much of this confidence stemmed from statements from Michael Crichton, the author of the book, and producer Steven Spielberg.

Scientists are very reluctant to use the word "never." But this issue is as safe as they come. Dinosaurs will never be cloned. The positive votes come mainly from Crichton, Spielberg, and the public. Reflecting back on his early research for the book, Michael Crichton said, "I began to think it really could happen." {6} The official *Jurassic Park* Souvenir magazine fueled the speculation when it said, "The story of *Jurassic Park* is not far-fetched. It is based on actual, ongoing genetic and

paleontologic research. In the words of Steven Spielberg: This is not science fiction; it's science eventuality." {7} No doubt spurred on by such grandiose statements, 58% of 1000 people polled for *USA Today* said they believe that scientists will be able to recreate animals through genetic engineering. {8}

Now contrast this optimism with the more sobering statements from scientists. The *Dallas Morning News* said, "You're not likely to see Tyrannosaurus Rex in the Dallas Zoo anytime soon. Scientists say that reconstituting any creature from its DNA simply won't work." {9} And *Newsweek* summarized the huge obstacles when it said, "Researchers have not found an amber-trapped insect containing dinosaur blood. They have no guarantee that the cells in the blood, and the DNA in the cells, will be preserved intact. They don't know how to splice the DNA into a meaningful blueprint, or fill the gaps with DNA from living creatures. And they don't have an embryo cell to use as a vehicle for cloning." {10} These are major obstacles. Let's look at them one at a time.

First, insects in amber. DNA has been extracted from insects encased in amber from deposits as old as 120 million years. {11} Amber does preserve biological tissues very well. But only very small fragments of a few individual genes were obtained. The cloning of gene fragments is a far cry from cloning an entire genome. Without the entire intact genome, organized into the proper sequence and divided into chromosomes, it is virtually impossible to reconstruct an organism from gene fragments.

Second, filling in the gaps. The genetic engineers of *Jurassic Park* used frog DNA to shore up the missing stretches of the cloned dinosaur DNA. But this is primarily a plot device to allow for the possibility of amphibian environmentally- induced sex change. An evolutionary scientist would have used reptilian or bird DNA which would be expected to have a higher degree of compatibility. It is also very far-fetched that an integrated set of genes to perform gender switching which does occur in some amphibians, could actually be inserted accidentally and be functional.

Third, a viable dinosaur egg. The idea of placing the dinosaur genetic material into crocodile or ostrich eggs is preposterous. You would need a real dinosaur egg of the same species as the DNA. Unfortunately, there are no such eggs left. And we can't recreate one without a model to copy. So don't get your hopes up. There will never be a real *Jurassic Park*!

Notes

1. Sharon Begley, "Here come the DNAsaurs," *Newsweek*, 14 June 1993, 61.
2. Patrick Cox, "*Jurassic Park*, A Luddite Monster," *The Wall Street Journal*, 9 July 1993.
3. Steven Spielberg, quoted by Patrick Cox, *WSJ*, 9 July 1993.
4. Cox, *WSJ*, 9 July 1993.
5. From this point on all dialogue is from the movie *Jurassic Park*, Kathleen Kennedy and Gerald R. Molen, Producers, copyright 1993, Universal City Studios, Inc., and Amblin Entertainment.
6. Michael Crichton, quoted in "Crichton's Creation," *The Jurassic Park Official Souvenir Magazine*, (Brooklyn, N.Y.: The Topps Company, Inc., 1993), 4.
7. "Welcome to Jurassic Park," *The Jurassic Park Official Souvenir Magazine*, (Brooklyn, N.Y.: The Topps Company, Inc., 1993), 2.
8. American Opinion Research poll of 1,000 adults from May 7-24, 1993 cited in *USA Today*, Friday, June 11, 1993, 2A.

9. Graphic inset, "How Real is *Jurassic Park?*," The *Dallas Morning News*, Monday, 14 June 1993, 10D.
10. Begley, "Here Come the DNAsaurs," 60-61.
11. Raul J. Cano, Hendrik N. Poinar, Norman J. Pieniazek, Aftim Acra, and George O. Poinar, Jr. "Amplification and sequencing of DNA from a 120 135-million-year-old weevil," *Nature* 363 (10 June 1993): 536-38.

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