“Your Critique of Sociobiology Makes No Sense”

Perhaps I have severely misunderstood your critique on sociobiology, but as I interpreted it, it makes no sense. From the sociobiologist proposition that all human nature and behavior is shaped solely by evolutional necessity (and what promotes reproduction and survival), it does not follow, as you have asserted, that any significant hope and meaning in life is precluded. I don’t know what kind of a faculty member you were talking to, but the question you posed (“What difference does it make if I’ve reproduced once I’m dead?”) is an easy one to answer. The goal of humanity, as believed by sociobiologists, is to pass on its genetic legacy. No single organism is particularly important, but only the collaborative propagation of a species of its genes. Therefore, the difference of whether or not one has reproduced by the time of death is a crucial one. One who dies and leaves no offspring does not pass on any genetic legacy, and is truly, in an evolutionary sense, dead. Those who do leave offspring and die are able to, in an evolutionary sense, live on vicariously through the genes that they pass on to their young, and the genetic legacy continues.

In response to the philospher’s division of life purpose into ‘small letters’ (survival/reproduction) and ‘capital letters’ (ultimate meaning and significance, whatever that means), the sociobiological assertion is that survival and reproduction is the ultimate meaning and significance of life. I think one of your crucial errors is that you assume that knowledge of the cause and origins of human nature actually change the validity of human nature itself, and somehow make our ambitions less “lofty. Well, our nature is what it is and we do what we do. We love our children and spouses with all our hearts, and if we do so only for the sake of evolutionary efficacy, than so

be it, but our feelings do not therefore become false and invalid. We at times act selflessly and help others at the expense of ourselves. But if this behavior is ultimately 'genetically selfish,' ostensibly helping others while really benefiting ourselves, than so be it, but these feelings are nevertheless meaningful. A principal proposition of sociobiology is that we have motives to act of which we are not always consciously aware. That does not mean they do not exist, and if they do exist, then following them does not make our lives inherently worthless.

Perhaps the sociobiological argument is not particularly aesthetically pleasing (which I think is really your main objection), but this is not by any means grounds for a scientific rebuttal.

Sincerely and respectfully,

_____, Ph.D.
I believe you are the first to question my critique along these lines. I will attempt to answer your objections in the body of your initial message.

> *Perhaps I have severely misunderstood your critique on sociobiology, but as I interpreted it, it makes no sense. From the sociobiologist proposition that all human nature and behavior is shaped solely by evolutional necessity (and what promotes reproduction and survival), it does not follow, as you have asserted, that any significant hope and meaning in life is precluded. I don't know what kind of a faculty member you were talking to,*

He was the head of the department of ecology and evolution.

> *but the question you posed ("what difference does it make if I've reproduced once I'm dead?") is an easy one to answer.*

To be clear, my question was "Once I am dead and in the ground

(implying that in a naturalistic worldview since there is no afterlife, my life is absolutely over), what difference does it make to me NOW?”

> *The goal of humanity, as believed by sociobiologists, is to pass on its genetic legacy. No single organism is particularly important,*

Precisely why I made my question very personal.

> *but only the collaborative propagation of a species of its genes. Therefore, the difference of whether or not one has reproduced by the time of death is a crucial one.*

Not to the species but to me, but I no longer exist.

> *One who dies and leaves no offspring does not pass on any genetic legacy, and is truly, in an evolutionary sense, dead.*

So what? My genes are not me, they are just molecules. If, as E. O. Wilson summarized in *Sociobiology: The New Synthesis*, The organism is just DNA’s way of making more DNA, then I don’t really matter anyway. And once I am dead and no longer exist (organism), nothing makes any difference to me since I do not exist. That is why the professor said that “ultimately” it doesn’t really matter. He got the gist of my question.

> *Those who do leave offspring and die are able to, in an evolutionary sense, live on vicariously through the genes that they pass on to their young, and the genetic legacy continues.*

I don’t live vicariously in my genes. They are now part of a new unique creature that combines my genes with a woman’s genes in a new and totally unique combination. Even a clone would not be exactly “me” since mutations and recombinations would have occurred, erasing my genetic identity.

> *In response to the philospher's division of life purpose into 'small letters' (survival/reproduction) and 'capital letters' (ultimate meaning and significance, whatever that means),*

Some meaning for existence beyond the mere physical.

> *the sociobiological assertion is that survival and reproduction is the ultimate meaning and significance of life.*

But as I state in the article, without some meaning for life that arises outside of ourselves, there is no meaning in small letters. If we are just molecules, then that's it! We are just molecules, nothing more can be said about us. How those molecules get arranged or persist or are annihilated is totally irrelevant to the ongoing history of the universe. Nothing cares and nothing therefore matters.

> *I think one of your crucial errors is that you assume that knowledge of the cause and origins of human nature actually change the validity of human nature itself, and somehow make our ambitions less "lofty."*

How can this not be so? From Darwin to today, evolution is said to be without direction and without purpose and we are mere accidents of history. This is not a conclusion of evidence, but of philosophy. For many it is a specific attempt to remove any form of God from the equation of who we are and where we came from. Once that is done we are free to make our own rules. When Richard Dawkins writes that Darwin made it possible to be an intellectually fulfilled atheist, he means it, at least partially, for the purpose of the freedom from any kind of imposed morality. Dawkin's watchmaker is not only blind, but totally without sympathy to whatever outcome comes about through natural selection. Specifically as to whether I reproduce or not.

> *Well, our nature is what it is and we do what we do. We love our children and spouses with all our hearts, and if we do so only for the sake of evolutionary efficacy, than so be it, but our feelings do not therefore become false and invalid.*

Certainly it becomes false and invalid, because I am only being manipulated by my genes which have been formed by thousands of generations. I am not really choosing, just reacting according the program established by natural selection.

> *We at times act selflessly and help others at the expense of ourselves. But if this behavior is ultimately 'genetically selfish,' ostensibly helping others while really benefiting ourselves, than so be it, but these feelings are nevertheless meaningful.*

How can they be "meaningful" if they are ultimately selfish and not altruistic at all? That's why Trivers adds the word "reciprocal" in front of the word because simple altruism no longer exists in a sociobiological world.

> *A principal proposition of sociobiology is that we have motives to act of which we are not always consciously aware. That does not mean they do not exist, and if they do exist, then following them does not make our lives inherently worthless.*

Certainly they exist, but their source is crucially important. If I pull the string on a Chatty Cathy doll and she says, "I love you," does she really love me? Of course not. But we are no different according to sociobiology. We are both complex arrangements of molecules uttering responses based on an internal program conditioned to respond to outside stimuli (pulling a string or gazing at our newborn's cute and cuddly face).

> *Perhaps the sociobiological argument is not particularly aesthetically pleasing (which I think is really your main objection), but this is not by any means grounds for a scientific rebuttal.*

Indeed, it is not aesthetically pleasing, but sometimes truth is hard to take, agreed. But that is not my problem. There is no purpose beyond survival and reproduction which is merely an illusion perpetrated on us by our brains which has been constructed by natural selection to simply aid survival and reproduction, not to recognize truth. And our entire body doesn't really matter, just our genes which are simply reproducing themselves because that's just what DNA does. But DNA is just a mindless molecule with no purpose or goal or direction. How then can we have any?

Respectfully,

Ray Bohlin, Ph.D.
Probe Ministries

Human Genetic Engineering

Although much has occurred in this field since this article was written in 2000, the questions addressed by Dr. Bohlin are still timely and relevant. Is manipulating our genetic code simply a tool or does it deal with deeper issues? Dealing with genetic engineering must be done within the context of the broader ethical and theological issues involved. In the article, Dr. Bohlin provides an excellent summary driven from his biblical worldview perspective.

What forms of genetic engineering can be done in human beings?

Genetic technology harbors the potential to change the human species forever. The soon to be completed Human Genome Project will empower genetic scientists with a human biological instruction book. The genes in all our cells contain the code for proteins that provide the structure and function to all our tissues and organs. Knowing this complete code will open new horizons for treating and perhaps curing diseases that have remained mysteries for millennia. But along with the commendable and compassionate use of genetic technology comes the specter of both shadowy purposes and malevolent aims.

For some, the potential for misuse is reason enough for closing the door completely—the benefits just aren't worth the risks. In this article, I'd like to explore the application of genetic technology to human beings and apply biblical wisdom to the eventual ethical quagmires that are not very far away. In this section we'll investigate the various ways humans can be engineered.

Since we have introduced foreign genes into the embryos of mice, cows, sheep, and pigs for years, there's no technological reason to suggest that it can't be done in humans too. Currently, there are two ways of pursuing gene transfer. One is simply to attempt to alleviate the symptoms of a genetic disease. This entails gene therapy, attempting to transfer the normal gene into only those tissues most affected by the disease. For instance, bronchial infections are the major cause of early death for patients with cystic fibrosis (CF). The lungs of CF patients produce thick mucus that provides a great growth medium for bacteria and viruses. If the normal gene can be inserted in to the cells of the lungs, perhaps both the quality and quantity of their life can be enhanced. But this is not a complete cure and they will still pass the CF gene on to their children.

In order to cure a genetic illness, the defective gene must be replaced throughout the body. If the genetic defect is detected in an early embryo, it's possible to add the gene at this stage, allowing the normal gene to be present in all tissues including reproductive tissues. This technique has been used to add foreign genes to mice, sheep, pigs, and cows.

However, at present, no laboratory is known to be attempting this well-developed technology in humans. Princeton molecular biologist Lee Silver offers two reasons.{1} First, even in animals, it only works 50% of the time. Second, even when successful, about 5% of the time, the new gene gets placed in the middle of an existing gene, creating a new mutation. Currently these odds are not acceptable to scientists and especially potential clients hoping for genetic engineering of their offspring. But these are only problems of technique. It's reasonable to assume that these difficulties can be overcome with further research.

Should genetic engineering be used for curing genetic diseases?

The primary use for human genetic engineering concerns the curing of genetic disease. But even this should be approached cautiously. Certainly within a Christian worldview, relieving suffering wherever possible is to walk in Jesus' footsteps. But what diseases? How far should our ability to interfere in life be allowed to go? So far gene therapy is primarily tested for debilitating and ultimately fatal diseases such as cystic fibrosis.

The first gene therapy trial in humans corrected a life-threatening immune disorder in a two-year-old girl who, now ten years later, is doing well. The gene therapy required dozens of applications but has saved the family from a $60,000 per year bill for necessary drug treatment without the gene therapy.{2} Recently, sixteen heart disease patients, who were

literally waiting for death, received a solution containing copies of a gene that triggers blood vessel growth by injection straight into the heart. By growing new blood vessels around clogged arteries, all sixteen showed improvement and six were completely relieved of pain.

In each of these cases, gene therapy was performed as a last resort for a fatal condition. This seems to easily fall within the medical boundaries of seeking to cure while at the same time causing no harm. The problem will arise when gene therapy will be sought to alleviate a condition that is less than life-threatening and perhaps considered by some to simply be one of life's inconveniences, such as a gene that may offer resistance to AIDS or may enhance memory. Such genes are known now and many are suggesting that these goals will and should be available for gene therapy.

The most troublesome aspect of gene therapy has been determining the best method of delivering the gene to the right cells and enticing them to incorporate the gene into the cell's chromosomes. Most researchers have used crippled forms of viruses that naturally incorporate their genes into cells. The entire field of gene therapy was dealt a severe setback in September 1999 upon the death of Jesse Gelsinger who had undergone gene therapy for an inherited enzyme deficiency at the University of Pennsylvania.{3} Jesse apparently suffered a severe immune reaction and died four days after being injected with the engineered virus.

The same virus vector had been used safely in thousands of other trials, but in this case, after releasing stacks of clinical data and answering questions for two days, the researchers didn't fully understand what had gone wrong.{4} Other institutions were also found to have failed to file immediate reports as required of serious adverse events in their trials, prompting a congressional review.{5} All this should indicate that the answers to the technical problems of gene therapy have not been answered and progress will be

slowed as guidelines and reporting procedures are studied and reevaluated.

Will correcting my genetic problem, prevent it in my descendants?

The simple answer is no, at least for the foreseeable future. Gene therapy currently targets existing tissue in a existing child or adult. This may alleviate or eliminate symptoms in that individual, but will not affect future children. To accomplish a correction for future generations, gene therapy would need to target the germ cells, the sperm and egg. This poses numerous technical problems at the present time. There is also a very real concern about making genetic decisions for future generations without their consent.

Some would seek to get around these difficulties by performing gene therapy in early embryos before tissue differentiation has taken place. This would allow the new gene to be incorporated into all tissues, including reproductive organs. However, this process does nothing to alleviate the condition of those already suffering from genetic disease. Also, as mentioned earlier this week, this procedure would put embryos at unacceptable risk due to the inherent rate of failure and potential damage to the embryo.

Another way to affect germ line gene therapy would involve a combination of gene therapy and cloning.{6} An embryo, fertilized *in vitro*, from the sperm and egg of a couple at risk for sickle-cell anemia, for example, could be tested for the sickle-cell gene. If the embryo tests positive, cells could be removed from this early embryo and grown in culture. Then the normal hemoglobin gene would be added to these cultured cells.

If the technique for human cloning could be perfected, then one of these cells could be cloned to create a new individual. If the cloning were successful, the resulting baby would be an

identical twin of the original embryo, only with the sickle-cell gene replaced with the normal hemoglobin gene. This would result in a normal healthy baby. Unfortunately, the initial embryo was sacrificed to allow the engineering of its identical twin, an ethically unacceptable trade-off.

So what we have seen, is that even human gene therapy is not a long-term solution, but a temporary and individual one. But even in condoning the use of gene therapy for therapeutic ends, we need to be careful that those for whom gene therapy is unavailable either for ethical or monetary reasons, don't get pushed aside. It would be easy to shun those with uncorrected defects as less than desirable or even less than human. There is, indeed, much to think about.

Should genetic engineering be used to produce super-humans?

The possibility of someone or some government utilizing the new tools of genetic engineering to create a superior race of humans must at least be considered. We need to emphasize, however, that we simply do not know what genetic factors determine popularly desired traits such as athletic ability, intelligence, appearance and personality. For sure, each of these has a significant component that may be available for genetic manipulation, but it's safe to say that our knowledge of each of these traits is in its infancy.

Even as knowledge of these areas grows, other genetic qualities may prevent their engineering. So far, few genes have only a single application in the body. Most genes are found to have multiple effects, sometimes in different tissues. Therefore, to engineer a gene for enhancement of a particular trait—say memory—may inadvertently cause increased susceptibility to drug addiction.

But what if in the next 50 to 100 years, many of these unknowns can be anticipated and engineering for advantageous

traits becomes possible. What can we expect? Our concern is that without a redirection of the worldview of the culture, there will be a growing propensity to want to take over the evolution of the human species. The many people see it, we are simply upright, large-brained apes. There is no such thing as an independent mind. Our mind becomes simply a physical construct of the brain. While the brain is certainly complicated and our level of understanding of its intricate machinery grows daily, some hope that in the future we may comprehend enough to change who and what we are as a species in order to meet the future demands of survival.

Edward O. Wilson, a Harvard entomologist, believes that we will soon be faced with difficult genetic dilemmas. Because of expected advances in gene therapy, we will not only be able to eliminate or at least alleviate genetic disease, we may be able to enhance certain human abilities such as mathematics or verbal ability. He says, "Soon we must look deep within ourselves and decide what we wish to become."{7} As early as 1978, Wilson reflected on our eventual need to "decide how human we wish to remain."{8}

Surprisingly, Wilson predicts that future generations will opt only for repair of disabling disease and stop short of genetic enhancements. His only rationale however, is a question. "Why should a species give up the defining core of its existence, built by millions of years of biological trial and error?"{9} Wilson is naively optimistic. There are loud voices already claiming that man can intentionally engineer our "evolutionary" future better than chance mutations and natural selection. The time to change the course of this slow train to destruction is now, not later.

Should I be able to determine the sex of my child?

Many of the questions surrounding the ethical use of genetic

engineering practices are difficult to answer with a simple yes or no. This is one of them. The answer revolves around the method used to determine the sex selection and the timing of the selection itself.

For instance, if the sex of a fetus is determined and deemed undesirable, it can only be rectified by termination of the embryo or fetus, either in the lab or in the womb by abortion. There is every reason to prohibit this process. First, an innocent life has been sacrificed. The principle of the sanctity of human life demands that a new innocent life not be killed for any reason apart from saving the life of the mother. Second, even in this country where abortion is legal, one would hope that restrictions would be put in place to prevent the taking of a life simply because it's the wrong sex.

However, procedures do exist that can separate sperm that carry the Y chromosome from those that carry the X chromosome. Eggs fertilized by sperm carrying the Y will be male, and eggs fertilized by sperm carrying the X will be female. If the sperm sample used to fertilize an egg has been selected for the Y chromosome, you simply increase the odds of having a boy (~90%) over a girl. So long as the couple is willing to accept either a boy or girl and will not discard the embryo or abort the baby if it's the wrong sex, it's difficult to say that such a procedure should be prohibited.

One reason to utilize this procedure is to reduce the risk of a sex-linked genetic disease. Color-blindness, hemophilia, and fragile X syndrome can be due to mutations on the X chromosome. Therefore, males (with only one X chromosome) are much more likely to suffer from these traits when either the mother is a carrier or the father is affected. (In females, the second X chromosome will usually carry the normal gene, masking the mutated gene on the other X chromosome.) Selecting for a girl by sperm selection greatly reduces the possibility of having a child with either of these genetic diseases.

Again, it’s difficult to argue against the desire to reduce suffering when a life has not been forfeited.

But we must ask, is sex determination by sperm selection *wise?* A couple that already has a boy and simply wants a girl to balance their family, seems innocent enough. But why is this important? What fuels this desire? It’s dangerous to take more and more control over our lives and leave the sovereignty of God far behind. This isn’t a situation of life and death or even reducing suffering.

But while it may be difficult to find anything seriously wrong with sex selection, it’s also difficult to find anything good about it. Even when the purpose may be to avoid a sex-linked disease, we run the risk of communicating to others affected by these diseases that because they *could* have been avoided, their life is somehow less valuable. So while it may not be prudent to prohibit such practices, it certainly should not be approached casually either.

Notes

1. Lee Silver, *Remaking Eden: Cloning and Beyond in a Brave New World*, New York, NY: Avon Books, p. 230-231.
2. Leon Jaroff, Success stories, *Time*, 11 January 1999, p. 72-73.
3. Sally Lehrman, Virus treatment questioned after gene therapy death, *Nature* Vol. 401 (7 October 1999): 517-518.
4. Eliot Marshall, Gene therapy death prompts review of adenovirus vector, *Science* Vol. 286 (17 December 1999): 2244-2245.
5. Meredith Wadman, NIH under fire over gene-therapy trials, *Nature* Vol. 403 (20 January 1999): 237.
6. Steve Mirsky and John Rennie, What cloning means for gene therapy, *Scientific American*, June 1997, p. 122-123.
7. Ibid., p. 277.
8. Edward Wilson, O*n Human Nature*, Cambridge, Mass.: Harvard

University Press, p. 6.
9. E. Wilson, *Consilience*, p. 277.

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Sociobiology: Evolution, Genes and Morality – A Christian Perspective

Dr. Bohlin looks at the basic tenets of sociobiology from a biblical worldview perspective. Looking at them as a scientist and a Christian, he finds a lack of consistency and obvious paradoxes in this way of looking at our world.

 *This article is also available in Spanish.*

In 1981 I wrote an article for *Christianity Today*, which they titled "Sociobiology: Cloned from the Gene Cult."(1) At the time I was fresh from a graduate program in population genetics and had participated in two graduate seminars on the subject of sociobiology. You might be thinking, "What in the world is sociobiology, and why should I care?"

That's a good question. Sociobiology explores the biological basis of all social behavior, including morality. You should care because sociobiologists are claiming that all moral and religious systems, including Christianity, exist simply because they help promote the survival and reproduction of the group. These sociobiologists, otherwise known as *evolutionary ethicists*, claim to be able to explain the existence of every major world religion or belief system, including Christianity, Judaism, Islam, and even Marxism and secular humanism, in

terms of natural selection and evolution. E. O. Wilson, a Harvard biologist and major advocate of sociobiology, claims that scientific materialism (a fully evolutionary worldview) will eventually overcome both traditional religion and any other secular ideology. While Wilson does admit that religion in some form will always exist, he suggests that theology as an explanatory discipline will cease to exist.

The First Paradox

While the arrogance of sociobiology is readily apparent, it contains a number of paradoxes. The first paradox is simply that the worldview of sociobiology offers nothing but despair when taken to its logical conclusion, yet it continues to gain acceptance in the academic community.

Four Foundational Principles of Sociobiology

The despair of the sociobiological worldview and the ultimate lack of meaning it presents are derived from what I consider the four foundational principles of sociobiology. The first principle is the assertion that human social systems have been shaped by evolutionary processes. Human societies exist in their present form because they work, or at least have worked in the past, not because they are based on any kind of revelation.

Second, there is what sociobiologist Robert Wallace called the **reproductive imperative**.(2) The ultimate goal of any organism is to survive and reproduce. Species survival is the ultimate goal. Moral systems exist because they ultimately promote human survival and reproduction.

Third, the individual—at least in respect to evolutionary time—is meaningless. Species, not individuals, evolve and persist through time. E.O. Wilson stated that the organism, your body, is simply DNA's way of making more DNA.(3)

Fourth, all behavior is therefore selfish, or at least

pragmatic, at its most basic level. We love our children because love is an effective means of raising effective reproducers. Wilson spells out the combined result of these principles quite clearly in his book *On Human Nature* when he says that

> *…no species, ours included, possesses a purpose beyond the imperatives created by its own genetic history (i.e., evolution)….we have no particular place to go. The species lacks any goal external to its own biological nature.(4)*

Wilson is saying that since humans have been shaped by evolution alone, they have no purpose beyond survival and reproduction. Even Wilson admits that this is an unappealing proposition.

Hope and Meaning

Since sociobiologists claim that all behavior is ultimately selfish, that an organism's only goal or purpose is to survive and reproduce, and that it is species survival, not individual survival, that is ultimately required, personal worth and dignity quickly disappear. The responses of sociobiologists when they are confronted with this conclusion have always been curious to me. I distinctly remember posing a question about hope and purpose to a graduate seminar composed of biology students and faculty. I asked, "Let's suppose that I am dead and in the ground, and the decomposers are doing their thing. What difference does it make to me now whether I have reproduced or not?" My point was that if death is the end with a capital "E", who cares whether or not I have reproduced? After an awkward silence, one of the faculty answered, "Well, I guess that it doesn't matter at all." In response, I asked, "Don't you see, we were just discussing how the only purpose in life is to survive and reproduce, but now you admit that this purpose is really an illusion. How do you go on with your life when you realize that it really doesn't matter what you

do? That there is no point to any of it?" After an even longer silence, the same faculty member said, "Well, I suppose that those who will be selected for in the future will be those who know there is no purpose in life, but will live as if there is."

To say the least, I was stunned by the frankness of his response. He was basically saying that the human race will be forced to live with a lie—the illusion of hope and meaning. What was even more unsettling, however, was the fact that no one disagreed or offered even the most remote protest. Apart from myself, everyone there accepted evolution as a fact, so they were forced to accept this conclusion. (I would find out later that at least a couple of them didn't like it.)

A professor of philosophy at a university in Minnesota recently answered my challenge by saying that maybe there are two different kinds of hope and meaning: hope and meaning in small letters (meaning survival and reproduction) and Hope and Meaning in capital letters (meaning ultimate worth and significance). We all have hope and meaning in small letters, and maybe there just isn't any in capital letters. So what? But that was precisely my point. Hope and meaning in small letters is without significance unless Hope and Meaning in capital letters really exists.

Three Responses

Over the years I have noted three responses of evolutionists to the stark realization that their worldview offers no hope or meaning in their lives. The first is strong disagreement with the conclusions of sociobiology without strong reasons for disagreeing. They don't like the result, but they find it difficult to argue with the basic principles. As evolutionists, they agree with evolution, but they don't want to believe that a meaningless existence is the end result.

The second response is simple acceptance. These evolutionists

agree that there is no purpose or meaning in life. They just have to accept it, as the professor in the story did. Their commitment to an evolutionary worldview is total. I find this attitude most prevalent among faculty and graduate students at secular institutions. There is an almost eerie fatalism that stoutly embraces the notion that one's dislike of a theory is not sufficient cause to raise questions about it, especially when it is based on "sound" evolutionary principles.

The third response is an existential leap for meaning and significance when both have been stripped away. This leap is aptly illustrated by evolutionist Robert Wallace at the end of his book, *The Genesis Factor*. He writes:

> *I do not believe that man is simply a clever egotist, genetically driven to look after his own reproduction. He is that. But he is at least that. He is obviously much more. The evidence for this is simple and abundant. One need only hear the Canon in D Major by Johann Pachelbel to know that there are immeasurable depths to the human spirit….I am sorry for the person who has never broken into a silly dance of sheer exuberance under a starry sky: perhaps such a person will be more likely to interpret the message of this book more narrowly. The ones who will find it difficult to accept the narrow view are those who know more about the joy of being us. My biological training is at odds with something that I know and something that science will not be able to probe, perhaps because the time is now too short, perhaps because it is not measurable. I think our demise, if it occurs, will be a loss, a great loss, a great shame in some unknown equation.(5)*

What Wallace is saying in this passage is that something is missing, and it can't be found within the confines of the evolutionary worldview. So look wherever you can!

Some may argue that those who have trouble with the loss of

hope and meaning are taking all this too seriously. I don't agree. On the contrary, I believe that they are being very consistent within their worldview. If everything has evolved, and there is nothing outside of mere biology to give meaning and significance to life, then we must live in despair, denial, or irrational hope.

Sociobiology is gaining in popularity because of the scientific community's strong commitment to evolution. If something follows logically from evolutionary theory, which I believe sociobiology does, then eventually all who consider themselves evolutionists will embrace it, whether it makes them comfortable or not. They will have no other rational choice.

The Second Paradox

In reflecting on the notion that all human societies and moral systems should have characteristics that seem to have evolved, I am led to a second paradox for sociobiology. The first paradox was that, despite the loss of hope and meaning in the context of a completely naturalistic worldview, sociobiology has continued to grow in influence. The second paradox involves Christianity. Since Christianity is based on revelation, it should be antithetical to or unexplainable by sociobiology, at least in some crucial areas.

It is not unreasonable to expect that some aspects of Christian morality would be consistent with a sociobiological perspective, since Christians in small and large groups do work for the betterment of the group as a whole, and the argument could be made that the survival of individuals is thus increased. However, if Christianity's claim to be based on revelation from a transcendent God is true, I would be surprised, indeed extremely disappointed and confused, if everything in Christianity's moral standards also made sense from a sociobiological perspective. What little I have seen in the way of an evaluation of Christianity from E.O. Wilson and

other sociobiologists is a poor caricature of true Christianity.

I would like to offer a few suggestions for consideration. William Irons, in a discussion of theories of the evolution of moral systems, comments that nepotism is a very basic prediction of evolutionary theory.(6) Humans should be expected to be less competitive and more helpful towards relatives than towards non- relatives. He cites numerous studies to back up his claim that this prediction, more than any other sociobiological prediction, has been extensively confirmed.

To be sure, the New Testament holds to very high standards concerning the importance of the family. Church leaders are to be judged first by how they conduct and relate themselves to their families (1 Tim. 3:12; Tit 1:6). Yet Jesus makes it quite clear that if there is any conflict between devotion to Him and devotion to our family, the family comes second. He said,

> *Do not think that I came to bring peace on the earth; I did not come to bring peace, but a sword. For I came to set a man against his father, and a daughter against her mother, and a daughter-in-law against her mother-in-law; and a man's enemies will be the members of his household. He who loves his father or mother more than Me is not worthy of Me. And he who does not take his cross and follow after Me is not worthy of Me. He who has found his life shall lose it, and he who has lost his life for My sake shall find it. (Matt. 10:34-39).*

In other passages Jesus gives promises that if we give up our families and possessions for His sake, then we will receive abundantly more in this life and the next, along with persecutions (Mark 10:29,30). Jesus Himself preferred the company of those who do the will of God to His own mother and

brothers (Matt. 12:46-50). The clear message is that, while our families are important, our relationship with the living God comes first, even if members of our family foce us to choose between God and them. Sociobiology may respond by saying that perhaps the benefit to be gained by inclusion in the group will compensate for the family loss, but how can the loss of an individual's entire genetic contribution to the next generation be explained away by any evolutionary mechanism?

Common Ground

So far I have concentrated my remarks in areas where a Christian worldview is in sharp contrast with the evolutionary worldview of the sociobiologists. Now I would like to explore an area of curious similarity.

While Christianity should not be completely explainable by sociobiology, there are certain aspects of Christian truth that are quite compatible with it. I have always been amazed by the curious similarity between the biblical description of the natural man or the desires of the flesh, and the nature of man according to evolutionary principles. Both perceive man as a selfish creature at heart, looking out for his own interests. It is not "natural" for a man to be concerned for the welfare of others unless there is something in it for him.

Sociobiology seems to be quite capable of predicting many of the characteristics of human behavior. Scripture, on the other hand, informs us that the natural man does not accept the things of the Spirit, that they are foolishness to him (1 Cor. 2:14). I have wondered if our sin nature is somehow enveloped by biology, or, to be more specific, genetics. Could it be that some genetic connection to our sin nature at least partially explains why "there is none righteous, there is none who understands, there is none who seeks for God" (Rom. 3:10,11)? Does a genetic transmission of a sin nature help explain why "all have sinned and fall short of the glory of

God" (Rom. 3:23)? Is this why salvation can only be through faith, that it is not of ourselves but is a gift of God, not a result of works (Eph. 2:8, 9)? Is this why the flesh continues to war in our bodies so that we do the thing which we do not want to do, why nothing good dwells in me, and why the members of my body wage war against the law of my mind (Rom. 7:14-25)?

If there is a genetic component to our sin nature, it seems reasonable to assume that only the Spirit of God can overcome the desires of the flesh and that this struggle will continue in the believer until he or she is changed, until we see God face to face (1 Cor. 13:12; 15:50-58).

I ask these questions not thinking that I have come upon some great truth or the answer to a long-standing mystery, but simply looking for some common ground between the truth of Scripture and the truth about human nature we may be discovering from the perspective of sociobiology. All truth is ultimately God's truth. While I certainly do not embrace the worldview of the sociobiologist, I realize that there may be some truth that can be discovered by sociobiologists that can be truly captured to the obedience of Christ (2 Cor. 10:5).

When I wrote that article for *Christianity Today* in 1981, I closed with this paragraph:

> *To know what to support and what to oppose, Christians involved in the social and biological sciences must be effective students of sociobiology. The popularity of sociobiology has gone unnoticed for too long already. We need precise and careful study as well as a watchful eye if we are to take every thought captive to the obedience of Christ."(7)*

Notes

1. Raymond G. Bohlin, "Sociobiology: Cloned from the Gene Cult," *Christianity Today,* 23 January (1981): 16-19.

2. Robert Wallace, *The Genesis Factor* (New York: Morrow and Co.,1979).

3. E. O. Wilson, *Sociobiology: The New Synthesis* (Cambridge,Mass.: Harvard University Press, 1975), 3.

4. E.O. Wilson, *On Human Nature* (Cambridge, Mass.: Harvard University Press, 1978) 2-3.

5. Ibid., 217-218. Emphasis mine.

6. William Irons, “How Did Morality Evolve?” *Zygon* 26 (1991): 49-89.

7. Bohlin, “Sociobiology,” 19.

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