RNA tumour viruses, was first introduced to scientific research in NSF programmes. I could cite numerous similar examples from among the current leaders in virtually every field of scientific research.

This programme has been threatened several times with extinction. Funds for it were cut this year from \$3.9 million in 1972 (supporting 2,600 students) to \$2.0 million (supporting 1,300 students). The seriousness of this cut can be seen from the fact that, in all fields of the biological and medical sciences, and in all the colleges and universities in the nation, there will be space for only 308 students this year. Our own programme has been cut from 20 to 15 students. For these places we received over 160 applications and we were forced for lack of funds to reject many straight A and other very qualified students.

The scientific leaders of the USA during the next two decades are the gifted undergraduates of today; it is these students who are now being discouraged from entering research careers in all fields of science because of reductions of federal support in training and research funds at all levels. The NSF-URP programme, in particular, plays a central role in attracting gifted people into research careers, and its demise may have profound effects on the production of future scientific leaders.

Yours faithfully,

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Nobel Realpolitik

SIR,—No doubt Eugene Garfield (*Nature*, **242**, 485; 1973) is correct about the correlation of citation frequency and Nobel Prizes. Such is the *Realpolitik* of science. But this indicates little about the true scientific value of frequently cited articles, and almost nothing about the value of those less frequently cited.

The *SCI* is a splendid bibliographic tool and may be a sociological tool as well. But I trust that the "rationale for thousands of infrequently cited journals" will not in fact be questioned merely on Dr Garfield's evidence. He should recall that Mendel's great paper was buried in an obscure journal, and Sir William Bragg's first seminal works rattled around ineffectually for a time in then-unknown Australian periodicals. There are quite a few other examples.

Thanks to *SCI's* *Permuterm Subject Index* such oversights need not now happen, but equally thanks to many infrequently-cited journals more really very good (and some really very bad)

material gets into print. There is always the chance of another Mendel.

Yours faithfully,

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Unanswered Questions

SIR,—One of your correspondents¹ asks those who, like myself, have referred to "flaws" and "unanswered questions" in evolutionary thought if they can supply examples. We certainly can—many of them. For space reasons I will quote only three.

Only four years ago a Darwinist grudgingly admitted that "Though it is nearly a century (*sic*) since Darwin wrote his treatise *On the Origin of Species*, there are still a few weak points in the theory of evolution. Often evolution seems to have made huge jumps, leaving no traces of any intervening steps and no hint that anything but the complete system could have functioned at all"².

It is surely incompatible with the scientific method to pretend that evolution is a proven fact, with these "huge jumps" unexplained. How did the whale evolve a complex nipple that enables it to suckle its young under water? This complex organ would have been worse than useless until it was fully developed, or Whale Junior would have received a mouthful of seawater instead of milk.

How did the giraffe evolve a long neck without first evolving the complex hydraulic control system that maintains an acceptable blood pressure in his brain whilst he lowers and raises his head? Or did he evolve his unique mechanism for regulating cerebral blood pressure before he evolved his long neck—and if so, how could such motiveless evolution have occurred?

Anadromous fish, grey whales and some species of migrating birds share an ability to find their way to an exact spot thousands of miles away. It is doubtful whether a submarine could equal their performance without the aid of shore-based radio beacons, even using today's highly sophisticated computer-based navigational systems. How did creatures so widely separated in the evolutionary tree as birds, fishes and mammals, all evolve these extraordinary navigational mechanisms? The problem is compounded by the experimental evidence that the spatial distribution of various elements in the oceans, the Earth's magnetic field, and the position of the stars all play a part in the overall phenomenon. Yet over geologic time these three parameters have been varying continuously; how, then, did these creatures evolve the ability to navigate against a moving datum?

If evolutionists would face these questions—and hundreds of others like them—honestly, they might both advance their branch of science and gain a little more respect for those Bible-believing scientists who see no incompatibility between science and their Christian faith.

Finally, let me point out that your correspondent is a couple of generations out of date in his glib assertion that "any archaeologist, theologian or philosopher could tell them that many of the stories in the Bible are copied from the folktales of long-ago tribes more ancient than the Hebrews".

As I have shown at some length³ there are two schools of thought even amongst theologians about the accuracy of the Old Testament's historical narratives—and a considerable proportion of the world's leading archaeologists now regard these narratives as highly accurate records that are independent of, and in many cases precede, the legends of other ancient peoples.

Yours faithfully,

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¹ Angseeing, J. P. A., *Nature*, **242**, 214 (1973).

² Anonymous, *New Scientist*, December 11, 542 (1969).

³ Hayward, A., *God's Truth: A Scientist Shows Why it Makes Sense to Believe the Bible* (Marshall Morgan and Scott, London, 1973).

Errata

THE title to the article by M. Koltai and E. Mecs (*Nature*, **242**, 525; 1973) should read "Inhibition of the Acute Inflammatory Response by Interferon Inducers", not "... Interferon Inhibitors".

IN the article "Sexual Behaviour and Sexual Motivation in the Female Rat" by R. F. Drewett (*Nature*, **242**, 476; 1973) the first sentence in the last paragraph should read "Oestrus is associated with enhanced general activity but this seems to be independent of sexual receptivity".

IN the article "Sativin: an Induced Isoflavan from the Leaves of *Medicago sativa* L." by J. L. Ingham and R. L. Millar (*Nature*, **242**, 125; 1973) paragraph 11, line 14, should read "sativin" instead of "sativan" and paragraph 12, line 6, should read "lonchocarpan" instead of "lonchocarpin". The contents page entry should read "isoflavan" instead of "isoflavin" in both cases.

IN the article "Further Data on the Corsica-Sardinia Rotation" by F. Radicati di Brozolo and G. Giglia (*Nature*, **241**, 389; 1973) paragraph 23, line 11, "lower" should read "upper" and "upper" should read "lower".