RANDOM SAMPLES

edited by DAVID MALAKOFF

Fungus Among Australian Frogs

A fungus is on the verge of being convicted of causing mass frog deaths in Australia. Researchers gathered in Cairns last week to review growing evidence that the chytrid *Batrachochytri*-

um, a fungus implicated in frog declines elsewhere in the world (*Science*, 30 April 1999, p. 728), is also the major

killer of Australian amphibians.
Prior to the 2-day conference,
"there was considerable doubt in
the community that the chytrid
was a serious threat" to the
country's frogs, says Ken Aplin of
the Western Australian Museum
in Perth. But findings presented

vince the skeptics," he says. His own work, for instance,

at the meeting "served to con-

concluded that the fungus is a relatively recent invader. Aplin found no trace of the killer on 600 museum specimens collected between 1950 and 1985, but the telltale spores showed up on frogs collected more recently. Other researchers showed that frogs living in some of Australia's cool upland regions, where the fun-

gus thrives, were harder hit than populations in adjacent but warmer lowlands. Government of-

ficials in Australia's Northern Territory are convinced of the fungus threat; they have just enacted a ban on the import of amphibians into the so far chytridfree state. And researchers are recommending that the government mount a national campaign to prevent the killer's spread, starting by formally designating the fungus as a problem. That move may come too late for the remote and

In what scientific misconduct experts say is an unusual case, a federal judge has sentenced a former drug company executive to 3 years in prison for falsifying data in a clinical trial. Prosecutors charged that Harry Snyder, a former vice president of BioCryst Pharmaceutical in Birmingham, Alabama, and his wife, nurse Re-

nee Peugeot, conspired to make BCX-34, a drug developed to treat psoriasis and skin cancer, appear effective. The couple planned to cash in by selling stock in the company when the share price rose on news of the drug's success, they

alleged. But BioCryst abandoned the drug several years ago after informing regulators about study irregularities. Last month a jury convicted the couple of conspiracy, mail fraud, and making false statements to the Food and Drug Administration.

Snyder and Peugeot's lawyers have appealed the verdict, maintaining that the pair made only record-keeping errors. Criminalizing research mistakes is "unprecedented," says Mark White, Peugeot's lawyer.

Regulators routinely prosecute stock manipulators, but researchers don't often face criminal charges for falsifying data, says Chris Pascal, director of the government's Office of Research Integrity. Misconduct cases, he says, typically end up in court only if the researcher appeals government disciplinary action.

rugged Kimberley region in the north of Western Australia; its first infected frog has just been found. The outbreak is "a great concern," says Aplin, because of the region's great frog biodiversity.

MOST-CITED INSTITUTIONS AND RESEARCHERS IN MOLECULAR BIOLOGY AND GENETICS, 1994–98

Rank	Institution	# citations	Researcher #	papers/citations
1	ННМІ	76,554	Michael Karin, UCSD	15/6677
2	Harvard	37,118	Joan Massagué, HHMI (Sloan-Ketteri	15/5402 ng)
3	MIT	15,966	John C. Reed, Burnham Inst.	13/5268
4	Johns Hopkins	13,570	Charles J. Sherr, HHMI (St. Jude Hosp	12/5435
5	UCSD	12,942	Ronald Evans, HHMI (Salk Inst.)	12/4646

The 300 or so biomedical research all-stars recruited by the Howard Hughes Medical Institute (HHMI) in Chevy Chase, Maryland, have easily outpaced the competition in publishing prominent papers in molecular biology and genetics. A new analysis by the Institute for Scientific Information in Philadelphia, which tracks scientific publishing, found that HHMI-funded researchers—who actually work at numerous campuses—published papers that other researchers cited more than 76,000 times from 1994 to 1998, more than double the number produced by runner-up Harvard University (see table). The survey also found that nine of the 17 most cited scientists were HHMI investigators, but not the leader of the pack: cell signaling and gene transcription researcher Michael Karin of the University of California, San Diego (UCSD). Among journals, *Cell* published the most high-impact papers, 371; *Nature* and *Science* tied for second with 159 each.

Patient Plant Breeders Harvest Food Prize

Two Mexico City researchers who worked for 30 years to perfect a high-protein corn have won the \$250,000 World Food Prize, awarded by a Des Moines, Iowa—based foundation. The new variety of corn, or maize as it is known outside North America, produces up to twice as much lysine and tryptophan—two essential amino acids for building proteins—as most modern varieties of tropical maize.

Evangeline Villegas and Surinder Vasal of the International Maize and Wheat Improvement Center (CIMMYT) in Mexico City used traditional trial-anderror breeding techniques to incorporate a newly

discovered gene into plants that had the same yield and pest resistance as traditional strains. Getting a combination of traits acceptable to both farmers and consumers proved a tough row to hoe, says Kendall Lamkey, an agronomist at Iowa State University in Ames. But perseverance produced a "quality protein maize" that looks like traditional varieties. "The only difference is the superior [nutritional] quality," says Villegas.

Farmers have planted at least 1 million hectares of the





Villegas, left, and Vasal, above, show off their handiwork.

maize—which can boost harvests by 10%—in 10 countries in Asia, South America, and Africa.