

SCIENTIFIC COMMUNITY

'Security Breach' Leaks NIH Grant Applications Onto Web

When Leemor Joshua-Tor received an e-mail from the National Institutes of Health (NIH) earlier this month regarding her recent grant application, the structural biologist at Cold Spring Harbor Laboratory in New York was hoping for good news. After all, a study section had ranked the proposal highly in June. Instead, the agency informed her that her application—containing a large amount of unpublished data relating to a project she had been working on for 10 years—had been posted on the Internet, freely accessible to the public.

Joshua-Tor was not alone. One hundred and forty grant applications submitted to at least one NIH study section were recently released onto nonsecure Web pages. NIH has been mum about the leaks, citing only a “security breach” and vaguely alluding in a Web-posted open letter to the actions of a peer reviewer. More surprising, the agency has not informed all individuals affiliated with the study section about the incident and has not shared basic information with affected authors regarding exactly when or for how long their supposedly secure proposals were available for public consumption.

“This is the first time I’ve heard of this happening, and it chills my blood,” says Julio Fernandez, a biophysicist at Columbia University, who chairs the Macromolecular Structure and Function C (MSFC) study section that reviewed Joshua-Tor’s grant application. “It’s an unthinkable attack on the entire system.”

NIH spokesperson Don Ralbovsky says the agency can’t discuss the specifics of the leak for security reasons. NIH would also not comment on why all affected authors had not been contacted or why individuals affiliated with the MSFC study section, including Fernandez and a number of peer reviewers who served on the section in June and February, had not heard of the incident before *Science* brought it to their attention.

Confused and frustrated by the initial NIH e-mail, Joshua-Tor requested more information. She found the agency’s response unsatisfying. Israel Lederhendler, the director of NIH’s Office of Electronic Research and Reports Management, directed her to an open letter posted on the agency’s grant Web site.* It stated that “a peer reviewer downloaded review materials in a way that allowed Google to capture, index them, and make them accessible via its search engine.” The

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—Julio Fernandez, Columbia University

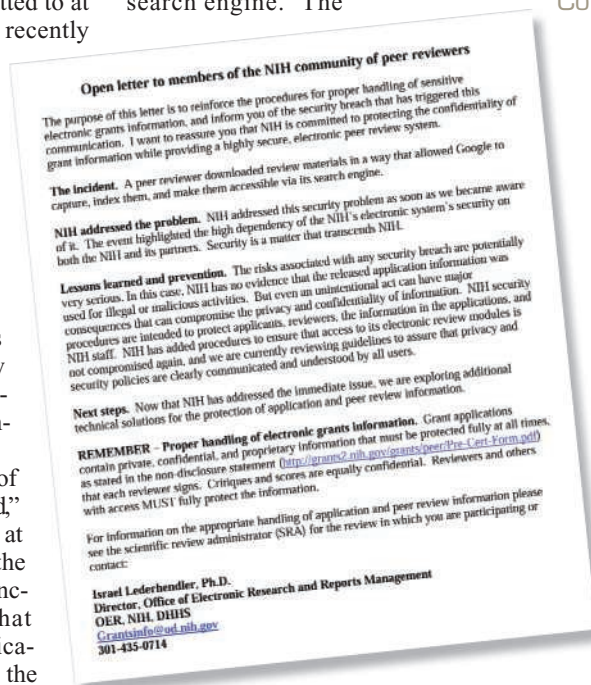
Some affected scientists have yet to hear from NIH. Stephen Sprang, a biochemist at the University of Texas Southwestern Medical Center in Dallas, found out about his grant application going public from a colleague, who discovered Sprang’s proposal to the February MSFC study section as well as his own on the Web. “My reaction at the time was, ‘This is odd and inappropriate,’” Sprang says. “Grant applications are presumably private, and this felt like an invasion of privacy.” Still, he says, it’s difficult to assess the consequences of the leak without knowing further details.

One scientist whose grant proposal to the June MSFC study section was also made public believes NIH’s eRA Commons site, designed for the electronic exchange of grant information, may have been the source of the leak.

The scientist, who declined to be named because his application is still pending, came across his proposal on the Web while doing a Google search for more information on software he uses in his research. He says he was able to access a number of other applications simply by entering the terms “sketch site: era.nih.gov” into Google. When *Science* performed the search, it brought up several grant titles, but the proposals themselves were no longer available.

Some worry that such security lapses could compromise NIH’s ambitious plans to make its grant application and review process entirely Web-based. The agency plans to have all grant proposals submitted electronically by May 2007. “I’m sure there will be additional problems,” says Vernon Anderson, a biochemist at Case Western Reserve University in Cleveland, Ohio, and a peer reviewer on another MSF study section. Still, he says, “personally, I’m more worried about someone getting my Social Security or credit card number than my grant information.” And he notes that even before electronic submissions, there was always the concern that peer reviewers would steal ideas from an applicant’s proposal. “But at least then, if someone stole your idea, you could trace it back to the study section,” he says. “Now, if something goes up on the Web, there’s no way to trace who saw it.”

—DAVID GRIMM



Going public. A letter posted on an NIH Web site blames the grant leak on a peer reviewer.

letter added that NIH had addressed the problem and was taking steps to ensure that it didn’t happen again. But Joshua-Tor is still left with unanswered questions: “The letter didn’t say what exactly had gone up [on the Web] or how long it had been up,” she says.

* grants1.nih.gov/grants/letter_to_peer_reviewers.pdf