

BIOMEDICINE

Scripps fills top posts

Duo to focus on finances after a failed merger.

BY ERIKA CHECK HAYDEN

A geneticist and a chemist will co-lead the Scripps Research Institute in La Jolla, California, the biomedical research organization announced on 18 September. The institute said that Scripps chemist Peter Schultz will take over as chief executive and vice-chair, while molecular biologist Steve Kay, currently at the University of Southern California (USC) in Los Angeles, will assume the institute's presidency.

The appointments are the latest in a series of leadership changes at the research institute. Over the past decade, public funding from the US National Institutes of Health has flattened, competition for philanthropic donations has intensified and pharmaceutical companies have shifted away from providing unrestricted funds for basic research. This has meant that Scripps and other independent research organizations have struggled to stay afloat.

"The broader significance is this worldwide need to change the model for drug discovery, and to show that an effective bench-to-bedside model can be created within the not-for-profit sector," says Kay, who is dean of the Dornsife College of Letters, Arts and Sciences at USC.

Kay and Schultz's appointments come just over a year after the failure of a bid by USC to merge with Scripps. In July 2014, Scripps president and chief executive Michael Marletta departed the institute after a faculty revolt against the merger deal. The following month, James Paulson, head of the institute's cell- and molecular-biology department, was named acting president and chief executive. When the merger fell through, Scripps was said to be running an operating deficit of US\$21 million.

"Looking forward, I think many scientists realize that NIH funding is a good thing if you have it, but it's not sustainable," says organic chemist Phil Baran, who was on the search committee that selected Kay and Schultz. "What is stable are endowments, which you build by having products that give you proceeds, and by philanthropy. You get philanthropy by doing the best science, so that's why there is such frenzied competition for the brightest minds."

Kay, who was previously at Scripps from 1996 to 2007, hopes that his experience with the institute will ease any tensions about his arrival from USC. ■



Multiple devices will allow ASTROSAT to access more wavelengths than most other telescopes.

ASTRONOMY

Indian telescope set for global stardom

ASTROSAT will extend the capabilities of existing US and European observatories, and boost Indian research.

BY T. V. PADMA

A satellite is about to bring India international acclaim, at least in astronomy circles. On 28 September, ASTROSAT, the country's first space observatory dedicated to science, will take to the skies.

As well as boosting the activities of Indian astronomers — who are abuzz with excitement — the satellite is expected to benefit researchers all over the world. Designed to orbit Earth for five years, it has capabilities not offered by existing space telescopes.

"It is a notable and fantastic step forward for Indian astronomy, and has broad implications for astronomers everywhere," says Henry Yang, a mechanical engineer at the University of California, Santa Barbara, who is chair of the board for the Thirty Meter Telescope (TMT) project, an observatory planned for Mauna Kea, Hawaii.

India has had ground-based telescopes for decades, including the Giant Metrewave Radio Telescope near Pune and the Indian Astronomical Observatory in the Himalayan cold desert of Ladakh. But although these can detect radio waves and infrared radiation,

which easily penetrate Earth's atmosphere, they cannot monitor higher frequencies that the atmosphere tends to block — most ultraviolet light, for example, and all X-rays and γ -rays. Without a space telescope of their own, Indian scientists have had to rely on ones operated by NASA and the European Space Agency (ESA) to study such radiation bands, which carry information about exotic neutron stars, newly born or exploding stars and the spiralling hot gases around black holes.

"Often, as we do not know the exact specifics of the telescope design, we are not able to tune our research proposals accordingly," says Varun Bhalariao, an astrophysicist at India's Inter-University Centre for Astronomy and Astrophysics (IUCAA) in Pune.

Indian astronomers have long been at a disadvantage for X-ray and ultraviolet studies, says Somak Raychaudhury, who is the director of the IUCAA and has been involved with ASTROSAT since its inception. Orbiting 650 kilometres above Earth, ASTROSAT will collect data on this portion of the light spectrum, giving Indian scientists faster — and guaranteed — access to the information. They will also have privileged access. "Everybody,