



INSTITUT PASTEUR OF SHANGHAI, CHINESE ACADEMY OF SCIENCES

Translating excellence in basic research into public health benefits

Institut Pasteur of Shanghai (IPS) is an independent research institution among the 26 life-science institutes of the Chinese Academy of Sciences (CAS). Established in 2004, IPS is dedicated to enhancing preparedness and responsiveness to infectious diseases through conducting cutting-edge research and sustained translation of solutions. IPS is a member of the Institut Pasteur International Network (IPIN), which consists of 33 research institutes in 26 countries on 5 continents.

Jointly established by CAS, Institut Pasteur and Shanghai Municipal Government, IPS has drawn on the resources and expertise of these three parties to become a research powerhouse and technology provider in the field of infectious diseases. Since its inception, IPS has evolved three interdisciplinary research programmes that cover pathogen biology, infection and immunity, and vaccinology and immune therapy. IPS performs fundamental research on infectious diseases with unmet medical needs, including AIDS, drug-resistant pulmonary tuberculosis, viral hepatitis, oncogenic viral infections, emerging viral infections, and fungal and parasite infections. Joining IPIN and European Union task forces, IPS fights emerging and re-emerging infectious diseases, from highly pathogenic influenza virus to Zika virus, at both national and international levels.

Some of its novel findings have led to excellent publications and patents with a great potential for preventing or treating diseases. One indicator of this progress is the

increasing interest of domestic and global biotech companies to establish partnerships with IPS. A new drug candidate for the treatment of the paediatric hand foot and mouth disease, therapeutic antibodies and prophylactic vaccine on hepatitis C virus were successfully transferred or licensed to the industry to continue clinical trials in 2015. Also in 2015, Zhifei Biological Company, a leading vaccine company in China decided to co-develop a norovirus vaccine with IPS.

IPS has 138 employees of whom 25 are principal investigators. It also has 210 graduate students and postdoctoral researchers, including 5 international students. IPS boasts state-of-the-art research facilities in a new research tower with 16,000 square metres of floor space on the campus of Shanghai Institutes of Biological Sciences of CAS. IPS's annual revenue for research and development has grown steadily, reaching US\$ 17 million in 2015, a third of which came from the commercialization of patents and contract-research agreements.

To augment the global preparedness and responsiveness to infectious diseases, IPS has started working closely with CAS and IPIN member institutes to address the great challenge of public health in countries along the Silk Road. Joint efforts range from pathogen discovery and solutions to disease control and prevention. IPIN members in Senegal and Cambodia are collaborating with IPS to develop kits for rapid diagnostics, to screen and develop drug candidates and protective antibodies, and to design and test various novel vaccines.

SEEKING TALENTED RESEARCHERS

Over the next five years, IPS will continue to recruit principal investigators and postdoctoral researchers from around the world. Scientists interested in developing their careers in infectious diseases are welcome to apply. There is no restriction on nationality or religion.

Research areas include (but are not limited to): pathogen science, immunological science, computation and structural biology, molecular epidemiology, cell biology and vaccinology.

IPS offers competitive starting packages to principal investigators, on top of the 100 Talents Program of CAS, the state "1000 Talents Plan" for junior and senior investigators, and the National Science Fund for Distinguished Young Scholars. Additional relocation programmes between members of IPIN are available. This includes the possibility for talented young scientists to run their own laboratories in one of the multiple centres in Sub-Saharan Africa and Southeast Asia.



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