nature

index

Asia Pacific

Editorial Catherine Armitage, Bec Crew, Rebecca Dargie, David Payne Analysis Bo Wu, Catherine Cheung Art & design Tanner Maxwell, Madeline Hutchinson, Woitek Urbanek Production Jason Rayment, lan Pope, Nick Bruni, Bob Edenbach, Joern Ishikawa Marketing & PR Kimberly Petit, Elizabeth Hawkins Sales and Partner content Yuki Fujiwara, Eri Shimoyama, Soon Kim, Anne Leitch, Chika Takeda, Sara Phillips, Yoshiko Sugita, Lisa Truong, Shoko Hasegawa Publishing Rebecca Jones, Richard Hughes, David Swinbanks.

Nature Index 2021 Asia Pacific,

a supplement to Nature, is produced by Nature Portfolio, the flagship science portfolio of Springer Nature. This publication is based on data from the Nature Index, a Nature Portfolio database, with a website maintained and made freely available at natureindex.com.

Nature editorial offices

The Campus, 4 Crinan Street, London N1 9XW, UK Tel: +44 (0)20 7833 4000 Fax: +44 (0)20 7843 4596/7

Customer services

To advertise with the Nature Index. please visit natureindex.com or email clientservicesfeedback@nature.com. Copyright © 2021 Springer Nature Limited, part of Springer Nature.

All rights reserved.

roximity matters. The COVID-19 pandemic, with consequent restrictions on international travel, has placed obstacles in the way of borderless science. But the inability to jump on a plane for a lab visit or conference may add impetus to a related big idea: a more interconnected scientific research system in the Asia-Pacific region.

Sustainability and climate-change mitigation in a southeast Asian geographical and cultural framework, and biomedical science focused on Asian or southeast Asian populations are areas for future research prowess, says Tan Eng Chye, president of the National University of Singapore (NUS), southeast Asia's pre-eminent research institution. Brian Schmidt, vice-chancellor of the Australian National University, Canberra, agrees there are vast opportunities for researchers to work more closely together on subjects of mutual interest across the region.

Regional research partnerships extend capacity by accessing more resources than are available to the partners working alone, including expertise, equipment and funding. China's ongoing, enormous investments in science have made it not just a magnet for collaborators, but also the region's scientific growth engine, supplanting Japan. Among the 30 institutions in Asia Pacific that have achieved the greatest increase in their Nature Index Share* since 2015, the first 29 are in China; NUS is 30th.

As this supplement also illustrates, indications of scientific ambition and progress, such as increased R&D spending and higher output in the Nature Index, are growing in southeast Asian nations, including Vietnam, Thailand and Indonesia. Tan says it took Singapore decades to build its scientific research capability. But with many of its faculty members now training "in the very best places in the world", increased investment, and a southeast Asian population exceeding 650 million. he expects neighbouring countries to quickly catch up.

Catherine Armitage

Chief editor

*Nature Index's signature metric, Share, is a fractional count for an article allocated to an institution, city or country/region, that takes into account the proportion of authors on the article whose institutional affiliation is with that institution or location. For further explanation, please see natureindex.com/glossary.



On the cover

Nicole Khan, Howard Yu and Kayla Murai in the Mai Po Nature Reserve wetlands, Hong Kong. Cover image: Suzanne Lee/PANOS for Nature.

Contents

S6 Politics and the pandemic disrupt migration patterns in research

Researchers are watching how political and economic tensions between China and Australia will affect scientific collaborations.

COVID-19 acts as a catalyst in India's quest for selfsufficiency

Funding for translational research is boosted under joint initiatives to develop indigenous vaccines.

Partnerships in progress

Research alliances in Asia Pacific are shifting towards China.

S24 Discovery through unofficial channels

Scientists in Japan and South Korea team up to pursue shared goals, despite worsening diplomatic relations.

S30 Joining forces for scientific strenath

Partnerships are essential to growth in output for southeast Asian countries.

The tables

How Asia-Pacific institutions stack up.