

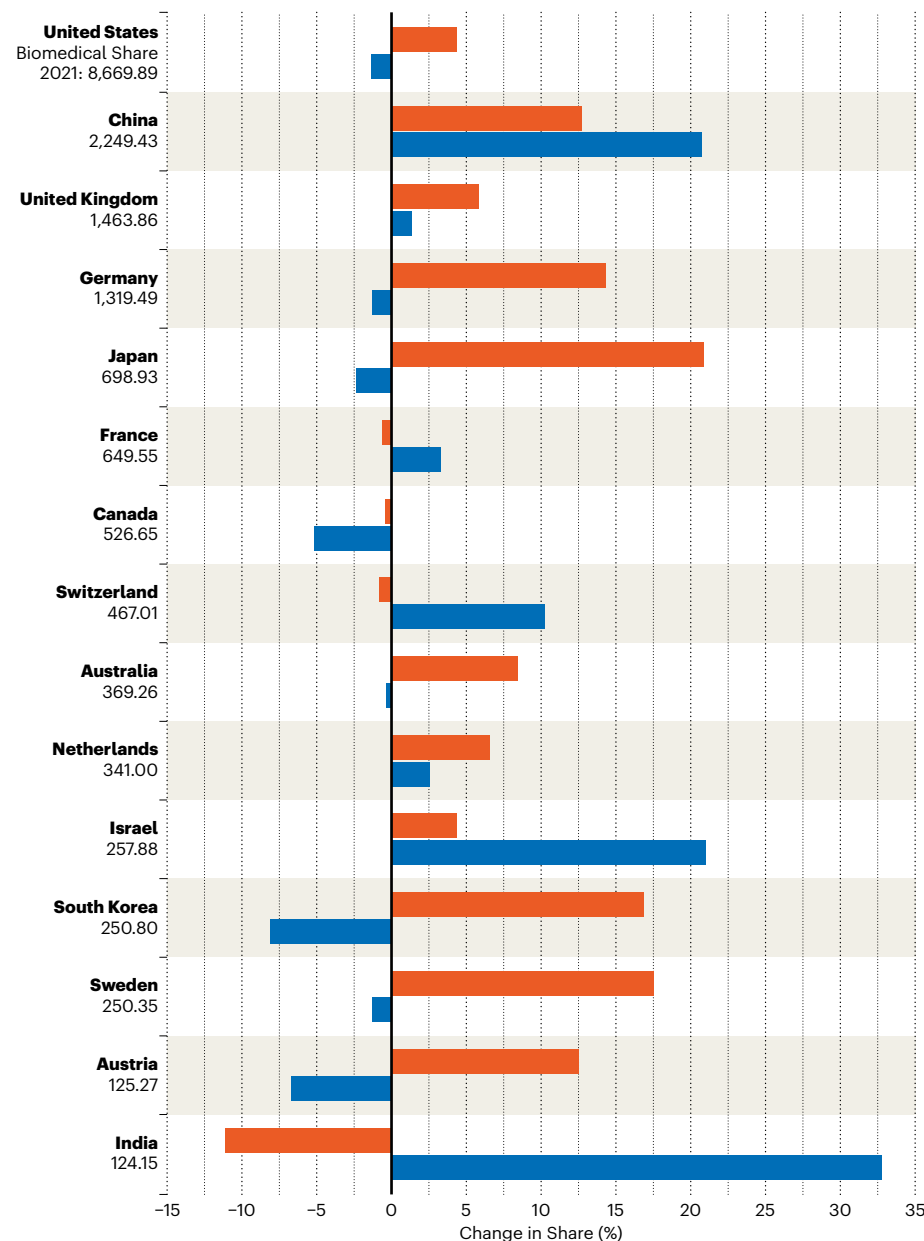
# Advancing remedies

The biomedical sciences' footprint in the Nature Index continues to grow, but the past few years have seen varying trends at the regional and institutional level. **Data analysis by Catherine Cheung.**  
**Infographic by Simon Baker, Tanner Maxwell and Benjamin Plackett.**

## PANDEMIC FOOTPRINT

The percentage change in biomedical research Share in the Nature Index in some leading countries saw distinctly different trends during the first two years of the COVID-19 crisis. A number of nations had a large rise in Share from 2019 to 2020, which could be related to involvement in important early pandemic-related research.

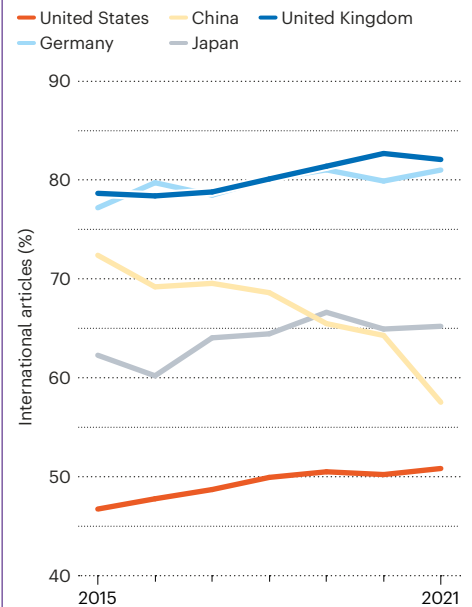
■ 2019-20 ■ 2020-21



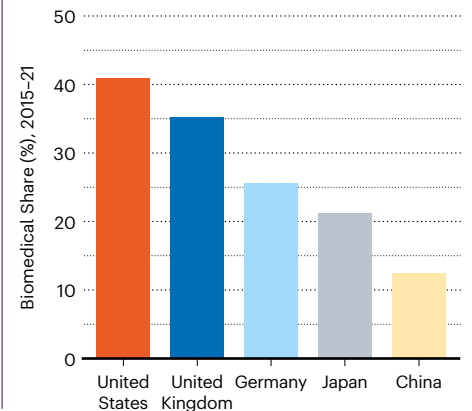
## SHIFTING PROFILES

The five leading countries for biomedical sciences Share from 2015 to 2021 in the Nature Index were the United States, China, United Kingdom, Germany and Japan. All have a rising proportion of publications featuring international collaboration, except China, where high-quality research has become more domestic. The biomedical sciences also make up a much smaller proportion of China's overall Share in the Nature Index.

Leading countries by biomedical Share, international articles (%) 2015-21



Leading countries' biomedical Share as a proportion of total Share

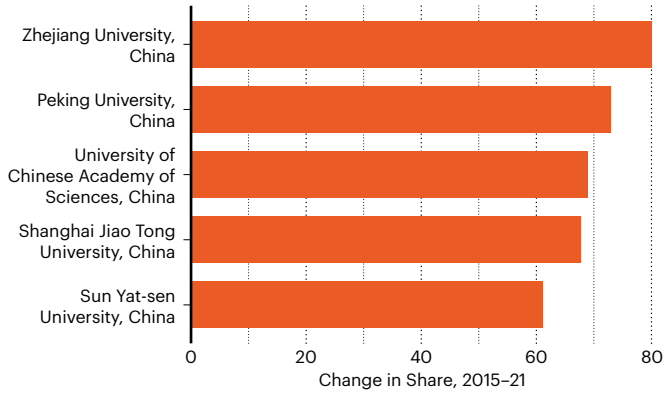


SOURCE: NATURE INDEX

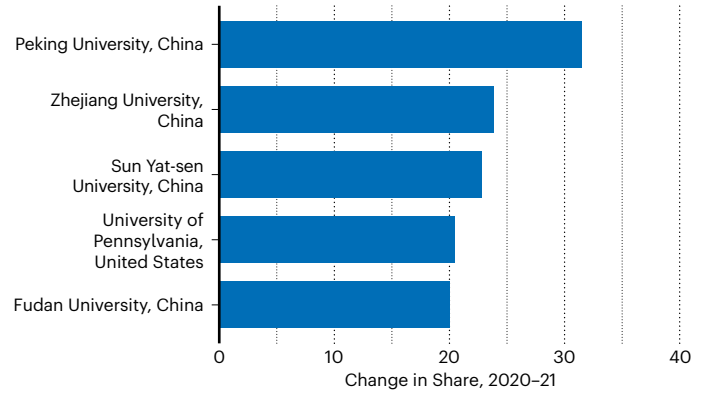
## GROWTH MIND-SET

Despite biomedical sciences making up a smaller slice of China's overall research profile in the Nature Index (see charts on opposite page), the country's institutions dominate those rising in Share from 2015 to 2021 and from 2020 to 2021.

Leading rising academic institutions in biomedical sciences, 2015–21

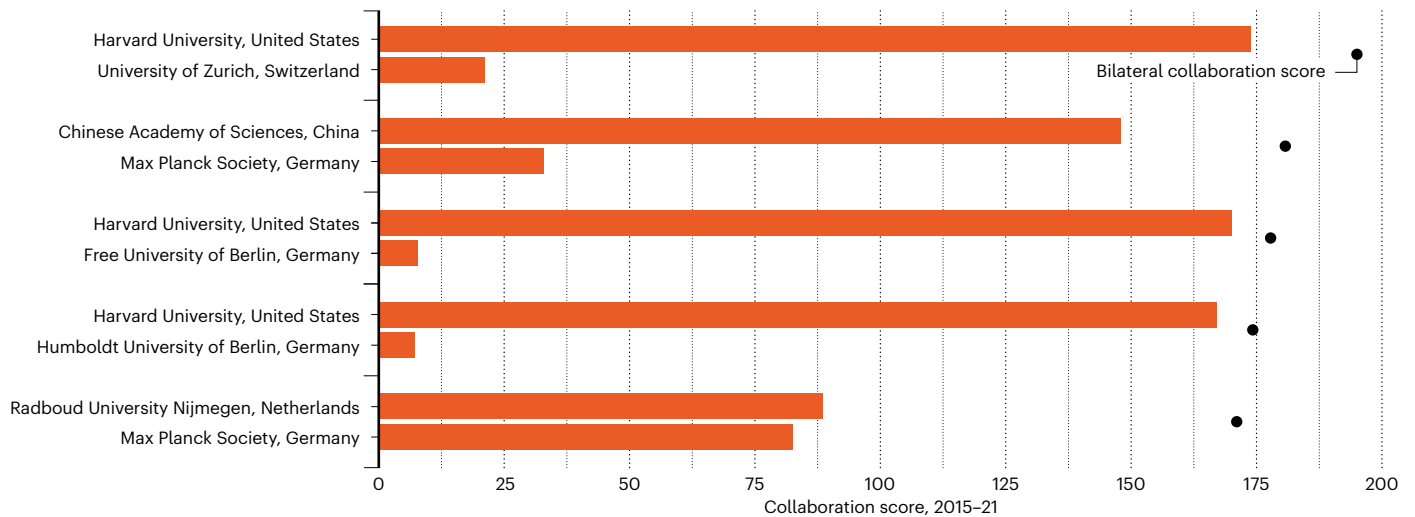


Leading rising academic institutions in biomedical sciences, 2020–21



## CROSSING BORDERS

The top international biomedical partnerships in the Nature Index by bilateral collaboration score (their combined Share on publications to which they both contribute, shown by the dot) often include Harvard University in the United States. Harvard's contribution to each score (shown by the bars) tends to be much higher than its partner.



## TRANSFERRING IDEAS

Harvard University again features among the top academic–corporate biomedical partnerships in the Nature Index by bilateral collaboration score, but the top collaboration involves two Switzerland-based organizations, the University of Basel and international pharmaceutical company Novartis.

