

STATE OF THE WORLD'S SCIENCE 2016

WHAT SCIENCE IS BUZZWORTHY?

Scientific journals publish tens of thousands of studies every year; the public hears about only a tiny fraction of them. Nothing wrong with that, in theory: most scientific research is extraordinarily

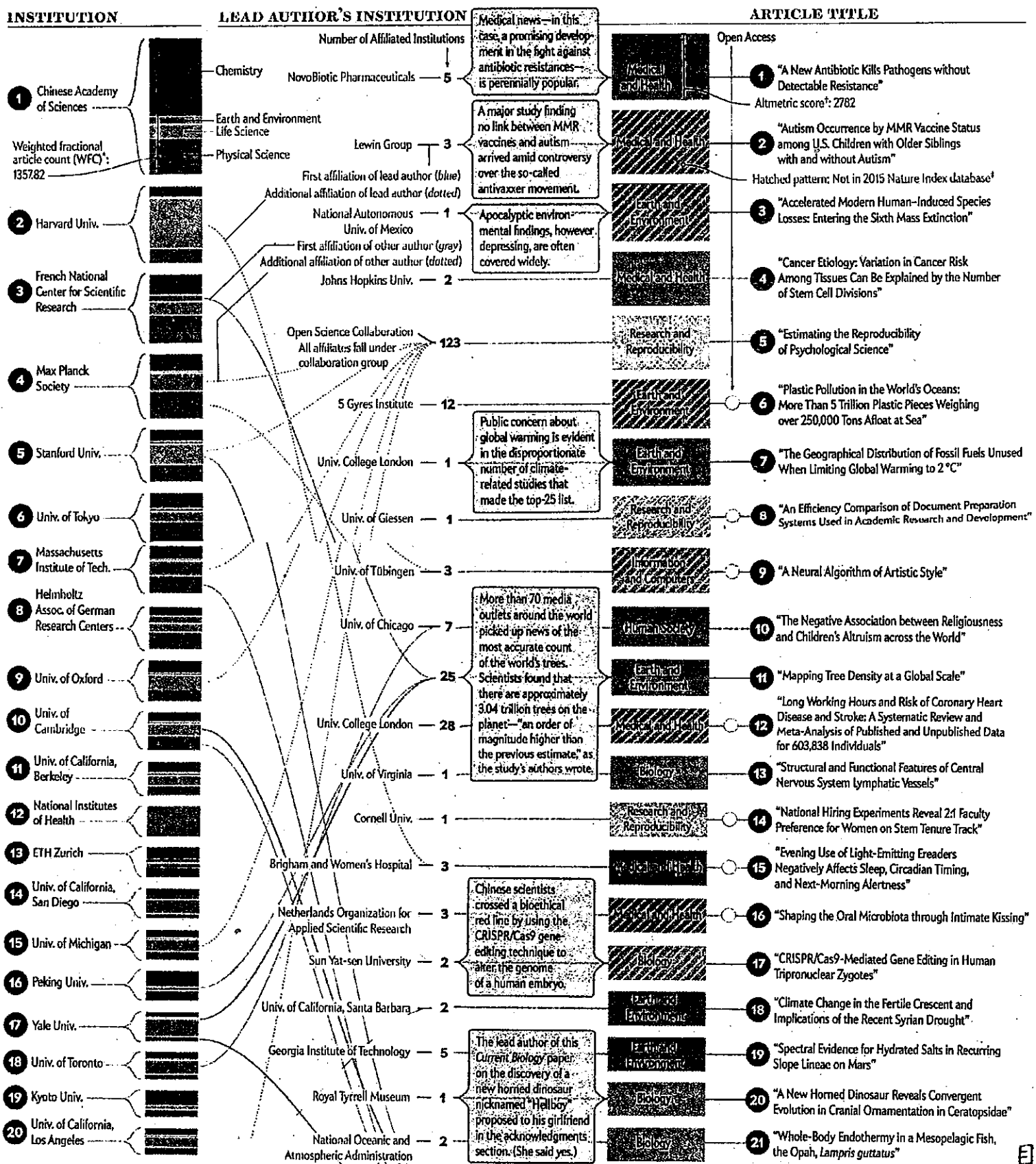
specialized. But it is natural to wonder which studies make it across that gap—and how. Do the biggest producers of peer-reviewed research get the most press? Do the media cover scientific subjects in rough proportion to the attention that scientists give them? To find out, we compared data from the Nature Index, which ranks institutions by research output, with numbers from Altmetric, a research firm that tracks media coverage. —The Editors

WHO TOPPED PUBLISHING CHARTS ...

The 25 most prolific institutions in science in 2015, as ranked by the Nature Index.

... AND WHO CREATED A BUZZ IN THE NEWS AND SOCIAL MEDIA

The 25 most talked-about studies of 2015, as ranked by Altmetric.



見背面

I. 英翻中 (40%)

1. More than 70 media outlets around the world picked up news of the most accurate count of the world's trees. Scientists found that there are approximately 3.04 trillion trees on the planet. (10%)
2. The lead author of this CURRENT BIOLOGY paper on the discovery of a new horned dinosaur nicknamed "hellboy" proposed to his girlfriend in the acknowledgments section. (10%)
3. Scientific journals published tens of thousands of studies every year, the public hears about only a tiny fraction of them. Who topped publishing charts? And who created a buzz in the news media? We compared data from the Nature index, which ranks institution by research output, with numbers from Altmetric, a research firm that tracks media coverage. (20%)

II 閱讀測驗 (20%)

1. Who topped the publication chart in Nature index in the year of 2016? (5%)
2. An article titled "CRISPER/Cas9-mediated gene editing in human tripronuclear zygotes" draw much attention in the year 2016. Which institution the lead authors are affiliated with? (5%) The editors have some sharp comments for this article, please translate these comments to Chinese words. (10%)

III 中翻英 (40%)

1. 臺大現有 11 個學院，54 個學系、103 個研究所，橫跨自然科學與人文社會藝術領域，每學期所開課程數達 8,000 班以上，無論所擁有的學術領域或開設之課程數，在全國大學中均無出其右者 (10%)
2. 生物科學近二十年來的發展風起雲湧，對人類的福祉與環境的維護有重大貢獻；生物技術的應用，突破原來醫學與農業發展緩慢之瓶頸，幫助解決疾病、糧食、資源利用及環境保育之難題，並帶動了下一波產業革命。此外，生物科學之教學與研究趨勢，已打破原有以生物群為區分的方式（例如動物學、植物學、昆蟲學、漁業學等），而改為以研究對象之組織層級做整合，如分子生物學、細胞學、生理學、生態學、演化生物學等 (20%)
3. 核心能力包括：具備生命科學廣度及深度之專業知識、具備生命科學的實驗操作技巧及使用相關儀器之能力、及能針對科學主題廣泛收集資料，判斷資料的正確性與關聯性... (10%)

試題隨卷繳回