

PRESIDENT

Marco Antonio Zago

VICE-PRESIDENT

Ronaldo Aloise Pilli

BOARD OF TRUSTEES

Carmino Antonio de Souza, Helena Bonciani Nader, Ignácio Maria Poveda Velasco, João Fernando Gomes de Oliveira, Liedi Legi Bariani Bernucci, Mayana Zatz, Mozart Neves Ramos, Pedro Luiz Barreiros Passos, Pedro Wongtschowski, Vanderlan da Silva Bolzani

EXECUTIVE BOARD**PRESIDENT DIRECTOR**

Carlos Américo Pacheco

SCIENTIFIC DIRECTOR

Carlos Henrique de Brito Cruz

ADMINISTRATIVE DIRECTOR

Fernando Menezes de Almeida

Pesquisa

ISSN 1519-8774

FAPESP

EDITORIAL BOARD

Carlos Henrique de Brito Cruz (*President*), Caio Túlio Costa, Eugênio Buccì, Fernando Reinach, José Eduardo Krieger, Luiz Davidovich, Marcelo Knobel, Maria Hermínia Tavares de Almeida, Marisa Lajolo, Maurício Tuffani and Mônica Teixeira

SCIENTIFIC COMMITTEE

Luiz Henrique Lopes dos Santos (*President*), Américo Martins Craveiro, Anamaria Aranha Camargo, Ana Maria Fonseca Almeida, Carlos Américo Pacheco, Carlos Eduardo Negrão, Douglas Eduardo Zampieri, Euclides de Mesquita Neto, Fabio Kon, Francisco Antônio Bezerra Coutinho, Francisco Rafael Martins Laurindo, Hernan Chaimovich, José Roberto de Franca Arruda, José Roberto Postali Parfá, Lucio Anghes, Luiz Nunes de Oliveira, Marco Antonio Zago, Marie-Anne Van Sluys, Maria Julia Manso Alves, Paula Montero, Roberto Marcondes Cesar Júnior, Sérgio Robles Reis Queiroz, Wagner Caradori do Amaral and Walter Colli

SCIENTIFIC COORDINATOR

Luiz Henrique Lopes dos Santos

EDITOR IN CHIEF

Alexandra Ozorio de Almeida

MANAGING EDITOR

Neldson Marcolin

EDITORS

Fabrcio Marques (*S&T Policy*), Glenda Mezarobba (*Humanities*), Marcos Pivetta (*Science*), Carlos Fioravanti and Ricardo Zorzetto (*Special editors*), Maria Guimarães (*Website*) and Yuri Vasconcelos (*Assistant editor*)

REPORTERS Christina Queiroz and Rodrigo de Oliveira Andrade

COPYWRITERS Jayne Oliveira (*Website*) and Renata Oliveira do Prado (*Social media*)

ART Claudia Warrak (*Editor*), Alexandre Affonso (*Infographics editor*) Felipe Braz (*Digital designer*), Júlia Cherem Rodrigues and Maria Cecília Felli (*Assistants*)

PHOTOGRAPHER Léo Ramos Chaves

IMAGE DATABASE Valter Rodrigues

TRANSLATORS Ricardo Cunha Lay (*Coordination and review*), Tom Jamieson, Peter David Hunrichs, Kim Jacob, Tiago Van Rheenen

CONTRIBUTORS Bruno Algarve, Domingos Zapparoli, Fabio Otubo, Frances Jones, Mayumi Okuyama, Melyna Souza, Nelson Provazi, Olga de Mello, Rafael Garcia

PRINTER MaisType

THE REPRINTING OF TEXTS, PHOTOS, ILLUSTRATIONS AND INFOGRAPHICS IN WHOLE OR IN PART, IS PROHIBITED WITHOUT PRIOR AUTHORIZATION

ADMINISTRATIVE MANAGEMENT FUSP – FUNDAÇÃO DE APOIO À UNIVERSIDADE DE SÃO PAULO

PESQUISA FAPESP Rua Joaquim Antunes, nº 727, 10º andar, CEP 05415-012, Pinheiros, São Paulo-SP

FAPESP Rua Pio XI, nº 1.500, CEP 05468-901, Alto da Lapa, São Paulo-SP

DEPARTMENT FOR ECONOMIC DEVELOPMENT, SCIENCE AND TECHNOLOGY
SÃO PAULO STATE GOVERNMENT

LETTER FROM THE EDITOR

Pesquisa FAPESP, 20 years

Alexandra Ozorio de Almeida

EDITOR-IN-CHIEF

In 1963, a report by the Royal Society on the emigration of scientists sparked a public debate over so-called brain drain. Half a century later, international mobility among scientists is still an object of debate fueled by reports and studies. Initially restricted to people with a background in science and technology, the term currently covers those with a high level of formal education who moved abroad due to better work conditions, pay or life quality. The cover feature of this edition is the scientific diaspora discussed in the academic literature (*page 4*).

Scientists in Brazil have historically experienced a low level of mobility. In the 1970s, a study conducted by the sociologist Simon Schwartzman indicated a tendency towards isolation, with few researchers leaving Brazil to study or work abroad and many who did returning home. This lack of mobility is partially explained by the favorable conditions offered by the national science and technology system, which offers incentives that make up for temporary instabilities.

Initially viewed as having a negative impact on the country of origin, research has shown that mobility has positive effects. When mobilized and engaged by their countries of origin, emigres can offer important contributions in creating transnational networks of scientific cooperation and promoting local development agendas, as evidenced by studies in India, China and South Korea. Accumulated knowledge suggests that if emigration occurs with the objective of having a different work experience—and not due to lack of options in the scientist's homeland—and the country of origin knows how to take advantage of the opportunity, there are national and individual gains to be made.

In 1989, the governor of São Paulo signed a decree guaranteeing stability and financial autonomy to the three state universities, USP, Unicamp and Unesp. In a series of articles, Pesquisa FAPESP identifies the genesis of this arrangement in the context of Brazilian redemocratization after the end of the military dictatorship that ruled from 1964 until 1985. The articles highlight the significant advances in the subsequent thirty years: USP, Unicamp and Unesp feature among the most relevant research universities in Brazil according to international excellence rankings (*page 18*).

*

In October 1999, the *Notícias FAPESP* news bulletin became *Pesquisa FAPESP* magazine, broadening the science communication mission initiated four years earlier by the São Paulo Research Foundation (FAPESP). Two decades later, communicating the outcomes of science produced in the State of São Paulo and in Brazil in an accessible form to a wide audience remains equally valid and necessary.

Pesquisa FAPESP is acknowledged as a high-level science journalism publication. Every month, it offers its readers news articles based on scientific research and technological innovations developed in Brazil and by Brazilians in all areas of knowledge, as well as features on science policy and good scientific practice. At the same time, *Pesquisa FAPESP* highlights the science behind daily news. The print English edition comes out three times a year with a selection of features originally published in Portuguese. The website features English versions of all articles published in the monthly version in Portuguese, available at revistapesquisa.fapesp.br/en.

Thank you for reading.