

PARTNERSHIPS FOR INNOVATION

FAPESP has developed strategic research partnerships with technology companies. The agency and the company create a research fund to support an innovation-focused project. These are long term projects (10 years) implemented in academic institutions through the creation of a Center for Applied Research. At present, there are **26 centers**, with a total investment of **US\$ 200 million**.

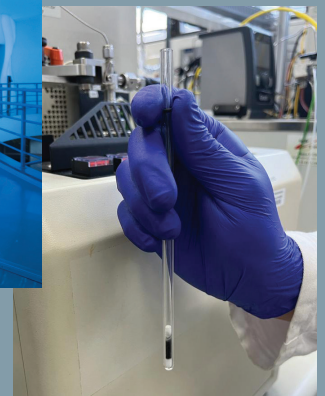
LOW CARBON ECONOMY

Funded by FAPESP and Shell at the Polytechnic School of the University of São Paulo, this is a center for advanced studies on:

- ▷ energy transition for the sustainable use of natural gas, biogas, and hydrogen;
- ▷ management, transport, storage, and usage of CO₂;
- ▷ technology to reduce greenhouse gas emissions.



Photos: RCGI



IMMUNO-ONCOLOGY

Funded by FAPESP and GlaxoSmithKline (GSK), and located at the Hospital Israelita Albert Einstein, the Center for Research in Immunology (CRIO) aims to:

- ▷ overcome the current limitations of immunotherapy;
- ▷ discover immunoregulatory targets with the potential to induce strong anticancer responses.



Photo: IIEP-Albert Einstein

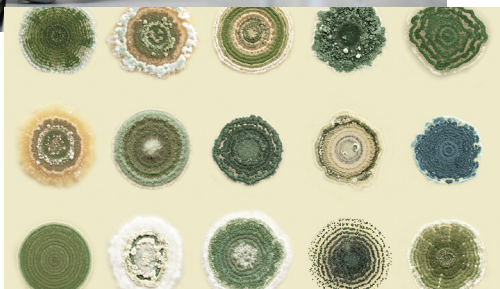
BIOLOGICAL CONTROL OF AGRICULTURAL PESTS AND DISEASES

Located at the College of Agriculture of the University of São Paulo, SPARCBIO is a research center supported by FAPESP and Koppert with a focus on:

- ▷ discovery of new agents for biological control;
- ▷ development of products and technologies for modern and sustainable agriculture;
- ▷ generation of knowledge on integrated pest and disease management.



Photos: Koppert



THE FUTURE OF AIR MOBILITY

CPE-MAF was created at the Technological Institute of Aeronautics (ITA) by FAPESP and Embraer, one of the most competitive aircraft manufacturing companies in the world. The center develops studies on:

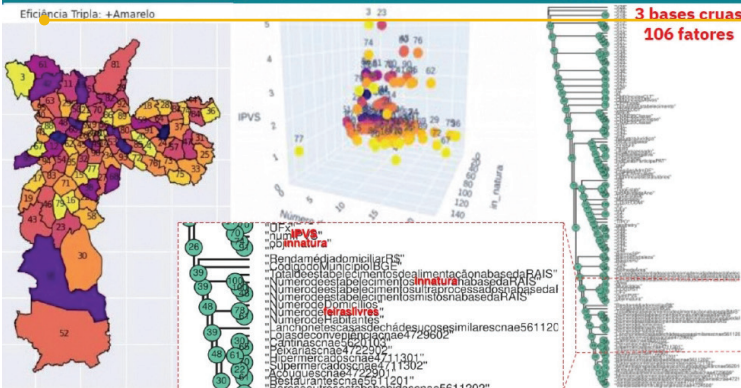
- ▷ new materials and solutions for aviation;
- ▷ low carbon aviation;
- ▷ autonomous systems;
- ▷ advanced manufacturing.



Photos: ITA

Modelagem rápida para decisões de projeto

Eficiência Tripla - Amarelo



Alexandre Delbem/USP

ARTIFICIAL INTELLIGENCE

Produces research on basic Artificial Intelligence topics focused on oil and gas industry, agribusiness, and health:

- ▷ Knowledge-Enhanced Machine Learning for Reasoning on Ocean Data;
- ▷ Causal Multicriteria Decision Making in Food Production Networks;
- ▷ Graph-Oriented Machine Learning for Stroke Diagnosis and Rehabilitation;
- ▷ AI in Emerging Countries: Public Policies and the Future of Work.

PARTNERSHIP	FOCUS	HEADQUARTER
1 Peugeot-Citroën	Biofuel engines	UNICAMP
2 GSK	Green chemistry	UFSCar
3 GSK	New target discovery	Butantan Institute
4 GSK	Immuno-oncology	Albert Einstein Institute for Education and Research
5 Equinor	Oil exploration & production	Unicamp
6 Shell	Greenhouse gas innovation	USP
7 Shell	Advanced Energy Storage	Unicamp
8 Shell	Dense Energy Carriers	Unicamp
9 Shell	Methane conversion by advanced electrochemical technology	Ipen
10 Shell	Offshore technology innovation	USP
11 Shell	Computational material science and chemistry	USP
12 Koppert	Biological control of pests and diseases	USP
13 Embrapa	Plant molecular breeding	Unicamp
14 Embrapa	Genomics for climate change	Unicamp
15 IBM	Artificial intelligence	USP
16 Grupo São Martinho	Plant health in sugarcane	Unesp
17 Maria Cecília Souto Vidigal Foundation	Early child development	Inspere
18 Braskem	Plasticulture engineering for agriculture	Unicamp
19 Ericsson	Smart networks and services	Unicamp
20 Embraer	Air mobility for the future	ITA
21 MCTI	6 Centers of Artificial Intelligence	UFMG, Unicamp, UFC, IPT, USP e Senai Cimatec BA