

# 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 CO<sub>2</sub>;
- ▷ 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 Immuno-oncology (CRIO) aims to:

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

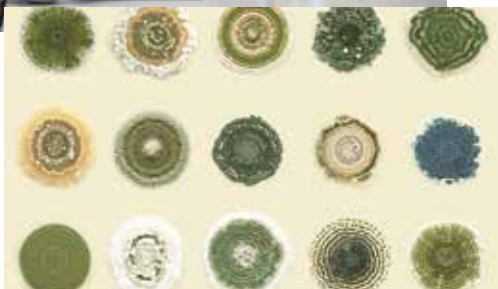


Photo: IEP-Albert Einstein

## 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.

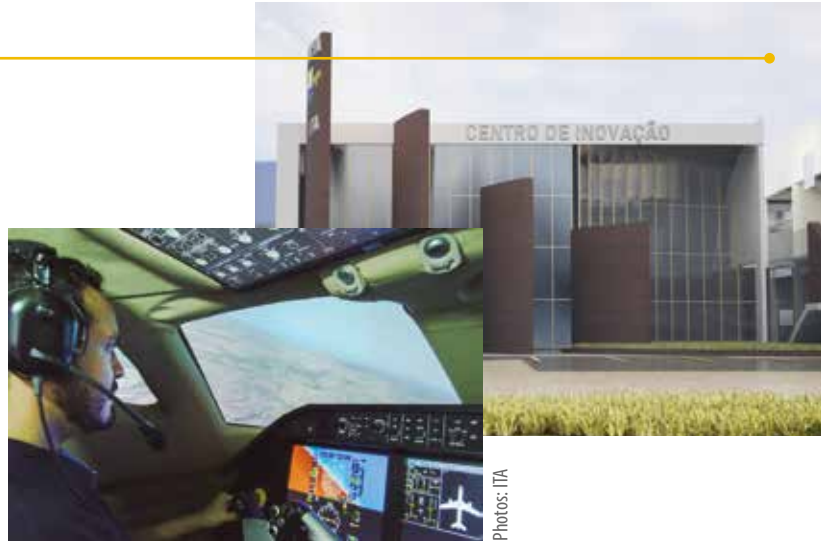


Photos: Koppert

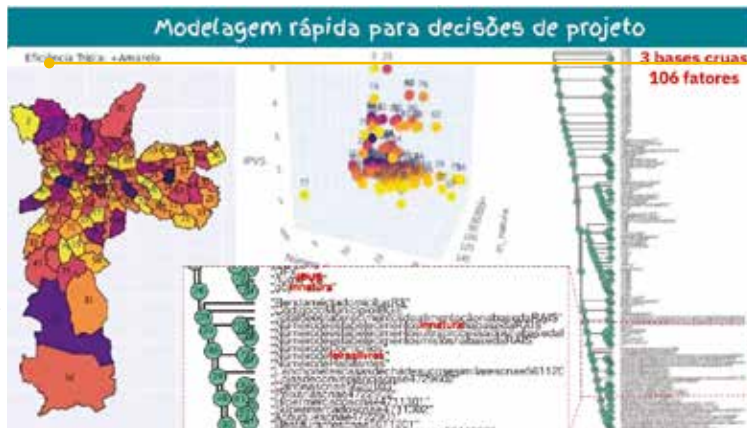
## THE FUTURE OF AIR MOBILITY

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



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

Learn more  
about the Centers

