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# Artificial Intelligence Symposium

Applying Artificial Intelligence in Biomedical Sciences

The Center of Excellence in New Target Discovery (CENTD) is promoting the **1st Artificial Intelligence (AI) Symposium**.

Artificial Intelligence is increasingly becoming an important tool for analysis and automation. For this reason, the aim of the event is to create a space for discussions on **AI applications in the healthcare**.

**Seven internationally renowned researchers** will discuss concepts and present real cases in the use of this tool in studies and diagnosis of diseases.

Check out the program and a mini-CV of the speakers.

This **free** event will take place at the Butantan Institute. Places are limited, so please register.

**Date:** 07/11/2023 (Tuesday)

**Time:** from 09:00 to 17:00

**Venue:** Auditorium of the Biological Museum  
Av. Vital Brazil, 1500 - CEP 05503-900

We're counting on your participation!

**Registration link:** <https://forms.gle/kVDp9Vx11JB9Xbns6>

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# Artificial Intelligence Symposium

Applying Artificial Intelligence in Biomedical Sciences

November 7, 2023 at the Butantan Institute, Auditorium of the Biological Museum

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## 09:00 - Opening

Ana Marisa Chudzinski-Tavassi  
*Coordinator of the Center of Excellence in New Target Discovery*

Rui Curi  
*Director of Imunobiológicos at the Butantan Institute*

Flavio Lichtenstein  
*Researcher at the Center of Excellence in New Target Discovery*

## 09:45 - Machine Learning applied to Glaucoma Diagnosis

Edson S. Gomi  
*Professor in the Department of Computer Engineering and Digital Systems, Polytechnic School, University of São Paulo*

## 10:30 - 10:50: Break

## 10:50 - 11:00: Presentation of CENTD's Social Media

## 11:00 - Classifying respiratory diseases using lung sounds

Marcelo Finger  
*Full Professor of Computer Science at the Institute of Mathematics and Statistics, University of São Paulo*

## 11:45 - Use of Artificial Intelligence in studies of Heart Disease, Depression and Ageing

Alexandre D. P. Chiavegatto Filho  
*Full Professor, Department of Epidemiology, School of Public Health, University of São Paulo*

## 12:30 - 13:45: Lunch

## 13:45 - Machine Learning Applied to New Drug Discovery

Maryana Alegro  
*Senior Machine Learning Engineer at GSK.ai*

## 14:30 - Research at the Center for Artificial Intelligence - C4AI

Fabio Gagliardi Cozman  
*Director of the Artificial Intelligence Center - C4AI*

## 15:15 - 15:30: Break

## 15:30 - SarcopenIA Platform: An automatic tool for assessing body composition in CT scans

Luis Gustavo Rocha Vianna  
*Researcher at MaChiron Startup, Brazil*

## 16:15 - Pharma Intelligence: Challenges and opportunities for accelerating biopharmaceutical RD&I

Rodrigo Pinheiro Araldi  
*Founding Partner and Scientific Director of BioDecision Analytics Ltda*

## 17:00 - Closing

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### Alexandre Chiavegatto Filho

Economist (FEA/USP), PhD in Public Health (FSP/USP) and post-doctorate (Harvard University), he received the Abril and Dasa Medical Innovation Awards and also the Excellence Award for New Leadership in Research from USP. He is a professor at the School of Public Health and director of the Big Data and Predictive Analysis Laboratory at FSP/USP.



### Edson Satoshi Gomi

Engineer (Poli-USP) and PhD in Electronic Engineering (University of Tokyo). Professor in the Department of Computer Engineering and Digital Systems at Poli-USP. His research areas cover Artificial Intelligence and Machine Learning. He works on research projects in the areas of Oil and Gas, Glaucoma Diagnosis and Law and Information Technology.



### Fabio G. Cozman

Engineer (Poli-USP) and PhD (Carnegie Mellon University - USA), he coordinated the Special Committee on Artificial Intelligence of the Brazilian Computer Society and received the Scientific Merit Award in AI. He is a Full Professor at Poli-USP, Director of the USP/IBM/FAPESP AI Center and a researcher in machine learning.

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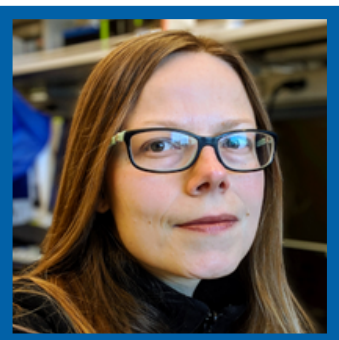
### Luis Gustavo Rocha Vianna

Bachelor in Molecular Sciences and Master in AI Planning (USP), he is part of the startup MaChiron, where he collaborates with doctors and data scientists, optimizing information in the health area through AI solutions, with emphasis on the development of the innovative system, SarcopenIA, for assessing body composition.



### Marcelo Finger

Bachelor in Electronic Engineering (USP), a master's degree and a PhD in Computing (Imperial College London - UK) and is a full professor of Computer Science at IME-USP. He researches logical and probabilistic reasoning, its computational complexity, as well as applications in AI. He is a columnist for Rádio Eldorado SP (107.3MHz), with the weekly column "Inteligência Artificial nas Ondas do Rádio".



### Maryana Alegro

Bachelor in Computer Science (PUC), Master and PhD in Electrical Engineering (Poli-USP) and Post-doc (UCSF) working on computer vision applications for clinical and histopathological images. A senior machine learning engineer at GSK (USA), she works with learning models for drug discovery using high-throughput screening.

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### Rodrigo Pinheiro Araldi

Bachelor in Biological Sciences (UNESP), Master's and PhD in Biotechnology (USP), sandwich at the Università degli Studi di Napoli Federico II (Italy) and post-doctorate in Molecular Biology (EPM-UNIFESP). Professor at UNIFESP and UNILA postgraduate courses and at the UNIFESP MBA. Founding partner and Scientific Director of BioDecision Analytics Ltda., a pioneering company in Pharma Intelligence in Latin America.

