

1st USP/ALANA WORKSHOP - DOWN SYNDROME RESEARCH AND ADVOCACY
March 21st 2023 – University of Sao Paulo, S.P.

Address: Instituto de Psiquiatria do Hospital das Clínicas da Faculdade de Medicina da USP
Rua Doutor Ovídio Pires de Campos 785 - São Paulo, S.P.
Anfiteatro Professor Paulo Vaz de Arruda

- 7:00-8:00 **Registration and welcome coffee**
- 8:00-8:30 **Opening session / Institutional address**
- 8:30-8:50 Conference 1:
Advocacy in Down syndrome: outreach and benefits to stakeholders
Ana Lúcia Villela/Marcos Nisti (Alana Foundation)
- 8:50-9:10 Conference 2:
Promoting health, autonomy and social inclusion in Down syndrome
Emille Mariana Bernal Cavalheiro (UNIFESP/Instituto Jô Clemente - IJC, Brazil)
- 9:10-9:30 Conference 3:
Overview of current research in Down syndrome: challenges and perspectives
Emily Niederst, PhD (Aging Brain Initiative & Alana Down Syndrome Center, MIT, USA)
- 9:30-10:00 Coffee-break
- 10:00-11:30 Symposium 1: Genetics, neurodevelopment and brain homeostasis
Chromosome 21 trisomy: genetic and molecular aspects (20 min.)
Erika Cristina Pavarino (FAMERP, Brazil)
Human iPSC-derived neural models for studying Down Syndrome (20 min.)
Bruna Zampieri (HIAE, Brazil)
Neuroinflammatory changes in the Ts65Dn mice (20 min.)
Daniele de Paula Faria (CMN-HCFMUSP)
Multomic approaches to dissect inflammation and the downstream signals associated with Down syndrome comorbidities: a path towards therapeutic interventions (20 min.)
Susan Pereira Ribeiro (Emory University, USA)
Discussion (10 min.)
- 11:30-12:00 Conference 4:
Epidemiology of Down syndrome in Brazil: building an observatory of needs and access to specialized care
Luciane Covolan e Gabriela Arantes Wagner (UNIFESP/IJC, Brazil)
- 12:00-14:00 Lunch-break
- 14:00-15:30 Symposium 2: Aging in DS
Building cognitive reserve: challenges in Down syndrome (20 min.)

Monica Sanches Yassuda (EACH-USP, Brazil)

Intraindividual cognitive variability in aging adults with Down syndrome (20 min.)

Luciana Mascarenhas Fonseca (IPq-HCFMUSP/Washington State University, USA)

Dementia in Down syndrome: clinical and imaging findings (20 min.)

Mateus Aranha (FMUSP/Hospital de la Santa Creu i Sant Pau, Barcelona)

Alzheimer's disease-related biomarkers in Down syndrome (20 min.)

Henrik Zetterberg (University of Gothenburg, Sweden; UCL London, UK)

Discussion (10 min.)

15:30-16:00 Coffee-break

16:00-17:30 Roundtable discussion: Future perspectives of DS research and policies at USP

Guiding questions:

1. How can USP facilitate the inclusion of people with Down syndrome in its academic community, using specific selection processes and curricula?
2. How can USP promote high-level intra- and extramural research in Down syndrome?

Topics for debate:

- **A scholar program for individuals with intellectual disabilities at USP**
- **Building a Brazilian research network in Down syndrome**

17:30-17:45 **Closing remarks**