

► International Academic Symposium Bioinformatics Data & Health 2018:

CMM / FCFM, CIMT / F-Med, U-Chile



04-07 December 2018
Santiago de Chile

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PROGRAM: INTERNATIONAL ACADEMICS SYMPOSIUM IN BIOINFORMATICS	2
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DAY 4: FRIDAY, DECEMBER 7 TH 2018 (FIRST FLOOR BNI, FACULTY OF MEDICINE).....	3
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Objectives

- International and Regional Networking to foster Collaborative Projects in Bioinformatics in the intersection between Data and Health @U-Chile and Latin America.
- Imaging Sciences & Data Science to support Medical Decisions.
- Human Capital Formation: From Competences to National and Regional Profiles.
- Elaborate Future Perspectives: Collaborative Initiatives in Bioinformatics between Europe and Latin America.

Program: International Academics Symposium in Bioinformatics

	Day 1 04.12.2018 Workshop	Day 2-3 05-06.12.2018 Lab-Visits	Day 4 07.12.2018 Wrap Up Session
8:30 – 9:00	Registration / Opening		
9:00-10:30	Session I Malik Alawi Science as a Service - Organizational Structure and Scientific Orientation of a Bioinformatics Core Unit	05-12 Possible participation in <i>Frontiers in Neurotechnology</i> www.bni.cl/neurosur-2018	
10:30 - 11:00	Coffee	Speakers visit lab research groups in the Faculty of Medicine (Campus Norte U-Chile)	
11:00-12:30	Session II Alex di Genova Accurate and contiguous de novo assembly of human populations	Speakers visit the Center for Mathematical Modeling, Faculty of Physical and Mathematical Sciences (Campus Beauchef, U-Chile)	
12:00 – 12:30	Discussion I		
14:00-17:00			Session III Vinicius Maracaja-Coutinho Integrative bioinformatics: integrating data and developing tools for retrieving valuable biological information in genomics and systems biology Discussion II Next steps to establish a bioinformatics core @ U-Chile

► International Academic Symposium, Bioinformatics: Data & Health 2018

Day 1: Tuesday, December 4th 2018 (Room 2 Decsa, Faculty of Medicine)

08:30 – 9:00	Registration
9:00 – 09:15	Opening <i>Data in Health and the importance of Bioinformatics</i> Steffen Härtel and Alejandro Maass, University of Chile
9:30 – 10:30	Session I <i>Science as a Service - Organizational Structure and Scientific Orientation of a Bioinformatics Core Unit</i> Malik Alawi, University of Hamburg, Germany.
10:30 – 11:00	Coffee
11:00 – 12:00	Session II <i>Bioinformatics in the context of genome sequencing</i> Alex Di Genova, INRIA, France.
12:00 – 12:30	Closing: Final words of the day and an explanation of next days schedule

Day 2-3: Wednesday, December 5th 2018 (Faculty of Medicine, University of Chile & Faculty of Mathematical and Physical Sciences, University of Chile)

09:00 – 18:00	Visiting research labs in the Faculty of Medicine & Center for Mathematical Modeling
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Day 4: Friday, December 7th 2018 (First floor BNI, Faculty of Medicine)

14:00 – 17:00	Session III: <i>Integrative bioinformatics: integrating data and developing tools for retrieving valuable biological information in genomics and systems biology</i> Vinicius Maracaja-Coutinho, Universidad de Chile, Chile
	Wrap up session: Next steps to establish a bioinformatics core

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Speakers

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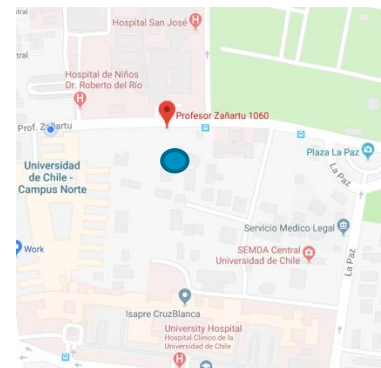
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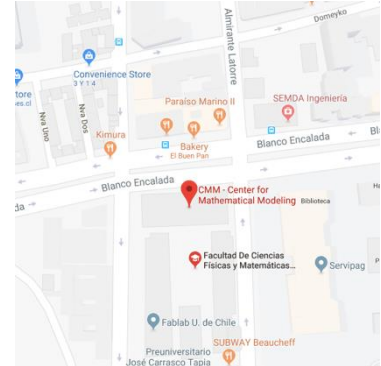
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Locations/ Address

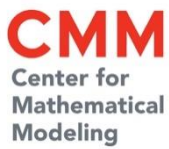
DECSA: Departamento de Educación
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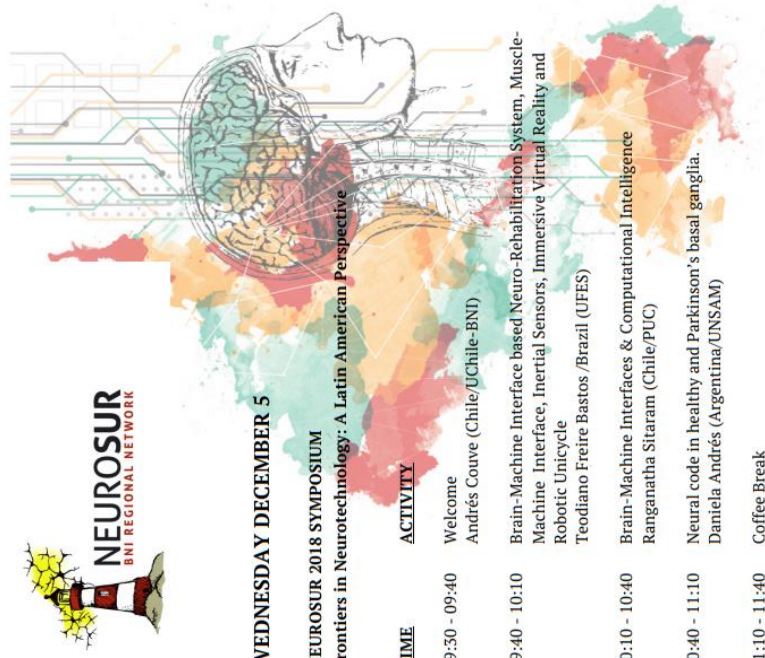
Participating Institutions and Laboratories



NEUROSUR 2018 SYMPOSIUM

Frontiers in Neurotechnology

A Latin American Perspective



WEDNESDAY DECEMBER 5

NEUROSUR 2018 SYMPOSIUM

Frontiers in Neurotechnology: A Latin American Perspective

TIME	ACTIVITY
09:30 - 09:40	Welcome Andrés Couve (Chile/UCHile-BNI)
09:40 - 10:10	Brain-Machine Interface based Neuro-Rehabilitation System, Muscle-Machine Interface, Inertial Sensors, Immersive Virtual Reality and Robotic Unicycle Teodiano Freire Bastos /Brazil (UFES)
10:10 - 10:40	Brain-Machine Interfaces & Computational Intelligence Ranganatha Sitaram (Chile/PUC)
10:40 - 11:10	Neural code in healthy and Parkinson's basal ganglia. Daniela Andrés (Argentina/UNSAM)
11:10 - 11:40	Coffee Break

TIME

ACTIVITY

11:40 - 12:10	The dentate gyrus role on spatial working memory. Veronica Piatti (Argentina/Leloir)
12:10 - 12:55	Short talks: Ion channels that regulate neuronal physiology and circadian behavior in <i>Drosophila melanogaster</i> . Nara Muraro (Argentina/IBioBA-CONICET-MPSP)
12:55 - 14:30	Virtual reality in neuroscience research and therapy. Rosa Flores (Bolivia/UMSA)
14:30 - 15:00	Decellularized ECM biomaterials as substrates for neuronal differentiation. Rolando Gittens (Panama/Indicasat)
15:00 - 15:30	Brain-machine interfaces for regenerative medicine. André Venturoti Perrotta (Portugal/UCP)
15:30 - 16:00	Neuromodulation of the spinal cord: reach the brain without touching it Rómulo Fuentes (Chile/UCHile-BNI)
16:00 - 16:15	Short talk: EMG1: portable electromyograph for rehabilitation. Hachi Manzur (Chile/UCHile-BNI)
16:15 - 16:45	Coffee break
16:45 - 17:15	The role of technology in the neurorehabilitation field. Eduardo Rocon (Spain/CSIC)
17:15 - 17:45	Sensorimotor improvement and body schema reorganization in chronic complete paraplegic patients following a training integrating closed-loop brain-machine interfaces with locomotion. Solaiman Shokur (Brazil/AASDAP)