



COBLET2022

Istanbul

1st COLLOQUIUM ON BIOINFORMATICS LEARNING, EDUCATION AND TRAINING

In conjunction with 11th GOBLET AGM 2022

11-14th OCTOBER 2022

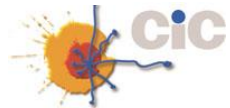
Bioinformatics Training and Education: Charting the Path Ahead

Dr. Javier De Las Rivas - President of SolBio

Cancer Research Center (CiC-IBMCC, CSIC/USAL/IBSAL) Salamanca - Spain

in **1st Colloquium on Bioinformatics, Learning and Teaching (CoBLET)2022**

Istanbul (Turkey) - 12.October.2022



VNIVERSIDAD
D SALAMANCA



SolBio



Development and evolution of Bioinformatics Societies in Latin America, an educational perspective.

Javier De Las Rivas (SPAIN), Flavio E. Spetale (ARG), Elizabeth Tapia (ARG), Cesar Bonavides-Martínez (MEX) and Alejandra Medina-Rivera (MEX)



Dr. Javier De Las Rivas - President of SolBio

Cancer Research Center (CiC-IBMCC, CSIC/USAL/IBSAL) Salamanca - Spain
Istanbul (Turkey) - 12.October.2022

Latin America (LA) is a vast region, which encompasses most of the American Continent including more than 30 nationalities: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Chile, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panamá, Paraguay, Peru, Puerto Rico, Uruguay, Venezuela ...; with a current population that exceeds **650 million people**. In this region, during the last decade we have seen the **development** of several **professional and scientific Societies of Bioinformatics & Computational Biology**, which actively work in **L+E+T** in the field.





Dr. Javier De Las Rivas - President of SolBio

Cancer Research Center (CiC-IBMCC, CSIC/USAL/IBSAL) Salamanca - Spain
Istanbul (Turkey) - 12.October.2022

Development and evolution of Bioinformatics Societies in Latin America: **A2B2C (Argentina), AB3C (Brasil), BIOCANET (Costa Rica & Panama), BioNetMX (Mexico), SC2B2 (Colombia), SCB (Chile), SPB2C (Peru), and SolBio (IberoAmerica).**



Fostering L+E+T on Bioinformatics in Latin America



Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022

7 National Societies of Bioinformatics in Latin America:

A2B2C (Argentina) <http://2022.a2b2c.org.ar/>

Asociación Argentina de Bioinformática y Biología Computacional



AB3C (Brazil) <https://ab3c.org.br/site/>

Associação Brasileira de Bioinformática e Biologia Computacional



BIOCANET (Costa Rica & Panama) (at present not very active)

Central American Network of Bioinformatics and Molecular Biocomputing



BioNetMX (Mexico) <https://redmexicanadebioinformatica.org/>

Red Mexicana de Bioinformática



SC2B2 (Colombia) (after pandemic in stand-by)

Sociedad Colombiana de Bioinformática y Biología Computacional



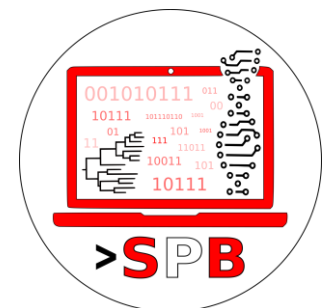
SCB (Chile) <https://www.scbioinfo.cl/> (funded in 2021)

Sociedad Chilena de Bioinformática



SPB2C (Peru) (born in 2019, legally funded in 2021)

Sociedad Peruana de Bioinformática y Biología Computacional



Fostering L+E+T on Bioinformatics in Latin America

Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022



Collaborative Effort

A2B2C (Argentina)

Asociación Argentina de Bioinformática y Biología Computacional

Dr. Nicolás Palopoli, Dr. Gustavo Parisi, Dra. Elizabeth Tapia, Dr. Flavio Spetale



AB3C (Brazil)

Associação Brasileira de Bioinformática e Biologia Computacional

Dr. Marcelo Brandão, Dra. Ana Tereza Vasconcelos



BIOCANET (Costa Rica & Panama)

Central American Network of Bioinformatics and Molecular Biocomputing

Dr. Javier Sánchez-Galan



BioNetMX (Mexico)

Red Mexicana de Bioinformática

Dra. Irma Martínez-Flores, Dra. Alejandra Medina, Dr. Julio Collado-Vides



SC2B2 (Colombia)

Sociedad Colombiana de Bioinformática y Biología Computacional

Dr. Pedro Antonio Moreno Tovar, Dr. Emiliano Barreto-Hernández, Dr. Yesid Cuesta



SCB (Chile)

Sociedad Chilena de Bioinformática

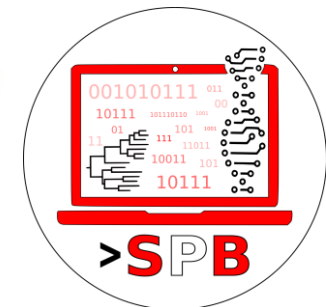
Dr. Vinicius Maracaja, Dr. Danilo González-Nilo



SPB2C (Peru)

Sociedad Peruana de Bioinformática y Biología Computacional

Dr. Luis Tataje, Cleidy Osorio



Fostering L+E+T on Bioinformatics in Latin America



Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022

National Societies of Bioinformatics in Latin America:

AB3C (Brazil) <https://ab3c.org.br/site/>



Associação Brasileira de Bioinformática e Biologia Computacional

– Was funded in **2004**

– Current President: **Marcelo Brandão**

– **The past, present and future of genomics and bioinformatics: A survey of Brazilian scientists.**


Genet Mol Biol. 2022



Genetics and Molecular Biology, 45, 2, e20210354 (2022)
Copyright © Sociedade Brasileira de Genética.
DOI: <https://doi.org/10.1590/1678-4685-GMB-2021-0354>

Research Article
Genomics and Bioinformatics

**The past, present and future of genomics and bioinformatics:
A survey of Brazilian scientists**

Mariana Rocha¹ , Luisa Massarani², Sandro José de Souza^{3,4,5} and Ana Tereza R. de Vasconcelos⁶

¹*Technological University Dublin, School of Computer Science, Dublin, Ireland.*

²*Fundação Oswaldo Cruz, Instituto Nacional de Comunicação Pública da Ciência e Tecnologia, Rio de Janeiro, RJ, Brazil.*

³*Universidade Federal do Rio Grande do Norte, Instituto do Cérebro, Natal, RN, Brazil.*

⁴*Universidade Federal do Rio Grande do Norte, Centro Multiusuário de Bioinformática, Natal, RN, Brazil.*

⁵*Sichuan University, Institutes of Systems Genetics, West China Hospital, Chengdu, China.*

⁶*Laboratório Nacional de Computação Científica, Laboratório de Bioinformática, Petrópolis, RJ, Brazil.*

Fostering L+E+T on Bioinformatics in Latin America



Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022

National Societies of Bioinformatics in Latin America:

A2B2C (Argentina) <http://2022.a2b2c.org.ar/>



Asociación Argentina de Bioinformática y Biología Computacional

– Was funded on the **30 October 2009**

– 1st President: **Cristina Marino-Buslje**

– Founders Members :

Cristina Marino-Buslje (Universidad de Buenos Aires), **Fernán Agüero** (Univ. de San Martín), **Adrián Turjanski** (Univ. de Buenos Aires), **María Silvina Fornasari** (Univ. Nacional de Quilmes), **Ignacio Sánchez** (Fundación Instituto Leloir), **Ignacio Ponzoni** (Univ. Nacional del Sur), **Diego Ferreiro** (Univ. de Buenos Aires), **Gustavo Parisi** (Univ. Nacional de Quilmes), **Marcelo Martí** (Univ. de Buenos Aires), **Ariel Chernomoretz** (Univ. de Buenos Aires), **Sebastián Fernández Alberti** (Univ. Nacional de Quilmes), **Luis Diambra** (Univ. de La Plata), **Daniel Ghiringhelli** (Univ. Nacional de Quilmes).



Fostering L+E+T on Bioinformatics in Latin America



Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022

National Societies of Bioinformatics in Latin America:

BioNetMX (Mexico) <https://redmexicanadebioinformatica.org/>



Red Mexicana de Bioinformática

- Was funded on the **31 May 2018**
- 1st President: **Alejandra Medina-Rivera**
- Founders Members:
 - **Julio Collado Vides** - Investigador
 - **Alejandra Medina-Rivera** - Investigador
 - **Maribel Hernández-Rosales** - Investigador
 - **Selene Fernández** - Investigador
 - **Shirley Alquicira** - Informática
 - **Dulce Valdivia** - Estudiante



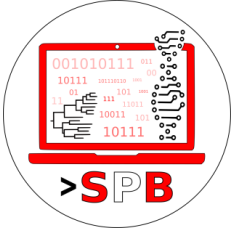
Fostering L+E+T on Bioinformatics in Latin America



Presented by Dr. Javier De Las Rivas at CoBLET - 12.October.2022

National Societies of Bioinformatics in Latin America: SPB2C (Peru) (born in 2019, legally funded in 2021)

Sociedad Peruana de Bioinformática y Biología Computacional





Dr. Javier De Las Rivas - President of SoIBio

Cancer Research Center (CiC-IBMCC, CSIC/USAL/IBSAL) Salamanca - Spain

Istanbul (Turkey) - 12.October.2022



Latin America - *International Society*

SoIBio (wp.soibio.org)

22 countries: *Argentina, Bolivia, Brasil, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Rep. Dominicana, Uruguay, Venezuela, plus Spain and Portugal.*



Bioinformatics and Computational Biology in Latin America: 7 National Societies & SolBio + ISCB

Dr. Javier De Las Rivas – President of SolBio



SOCIEDAD IBEROAMERICANA DE BIOINFORMÁTICA, IBEROAMERICAN SOCIETY OF
BIOINFORMATICS (SOIBIO)



<http://wp.soibio.org/>



<https://www.iscb.org/iscb-affiliates-central-south-america>



SolBio (wp.soibio.org)

Sociedad Iberoamericana de Bioinformatica /
Iberoamerican Society for Bioinformatics

Bioinformatics and Computational Biology in Latin America: 7 National Societies & SolBio + ISCB

Dr. Javier De Las Rivas – President of SolBio



SOCIEDAD IBEROAMERICANA DE BIOINFORMÁTICA, IBEROAMERICAN SOCIETY OF BIOINFORMATICS (SOIBIO)



<http://wp.soibio.org/>



<https://www.mygoblet.org/>



SolBio (wp.soibio.org)

Sociedad Iberoamericana de Bioinformática /
Iberoamerican Society for Bioinformatics



SolBio

Membership

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User Registration

Education

Scientific Exchange

Outreach

Infrastructure

Students & Young

Researchers

 English

 Español

About SolBio

SolBio (Iberoamerican Society for Bioinformatics) is an **international scientific society**, founded in **2009** following the previous work and experience of the **RIB** (Iberoamerican Network for Bioinformatics) which was, from 2002 to 2008, a joint collaborative project of several research groups from Iberoamerica working in the new field of **Bioinformatics and Computational Biology**.

SolBio aims to promote research and development on Bioinformatics in the large international region of **Iberoamerica**. As such it looks to help either individuals or national societies or groups that want to work in this field, both at **academic** and **professional** level. To do so, **SolBio** facilitates transnational exchange, collaboration, formation and development for issues and topics related to **Bioinformatics and Computational Biology**. It is also a platform to interact and collaborate with other international societies and networks that work in the same field: European Molecular Biology Network (**EMBnet**); Asian-Pacific Bioinformatics Network (**APBioNet**); International Society for Computational Biology (**ISCB**).

SolBio is **open to all**, either from the academic or the professional world, interested in promoting research and development of **Bioinformatics in Iberoamerica**. To become a member, the only requirements are the support of one or two members of **SolBio** and to fulfill the **registration** in this website. A small fee is asked to **academic** or **professional staff**. The registration as a member is free for **students** and **postdoctoral** people.

SolBio (wp.soibio.org)

Sociedad Iberoamericana de Bioinformática / Iberoamerican Society for Bioinformatics

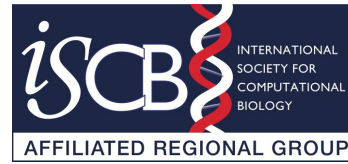


What is SolBio ? ... SolBio (Iberoamerican Society for Bioinformatics) is an **international scientific society**, founded in 2009, that aims to promote research and development of **Bioinformatics and Computational Biology** in the large international region of **IberoAmerica** that includes **22 countries**: *Argentina, Bolivia, Brasil, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Republica Dominicana, Uruguay, Venezuela, plus Spain and Portugal*. ... to promote scientific, academic and professional advance, cooperation and exchange in Bioinformatics across **Latin America**.

SolBio (wp.soibio.org) Annual Meetings / International Conferences



SOCIEDAD IBEROAMERICANA DE BIOINFORMÁTICA, IBEROAMERICAN SOCIETY OF BIOINFORMATICS (SOIBIO)



International Meetings

– SolBio organized International Conferences:

- 2009** Puerto Morelos, MEXICO ("Fundación de SolBio", joint with EMBnet)
- 2010** Termas de Chillán, CHILE (1st IC-SolBio <http://www.soibio.org/en/node/60>)
- 2011** Florianopolis, BRAZIL (<http://www.soibio.org/en/X-Meeting2011>)
- 2012** Santiago, CHILE (joint conference with ISCB-LA 2012)
- 2013** Rosario, ARGENTINA (<http://www.soibio.org/es/node/209>)
- 2014** Belo Horizonte, BRAZIL (joint conference with ISCB-LA 2014)
- 2016** Riviera Maya, MEXICO (6th IC-SolBio fully organized) (delayed from **2015**)
- 2016** Buenos Aires, ARGENTINA (ISCB-LA 2016 with SolBio collaboration)
- 2017** Cali, COLOMBIA (13-15.Sept.2017) 8th IC-SolBio
- 2018** Viña del Mar, CHILE (5-9.Nov.2018, joint ISCB-LA SolBio EMBnet) 9th IC-SolBio
- 2019** Montevideo, URUGUAY (28.Oct-1.Nov.2019) 10th IC-SolBio
- 2020** Queretaro, MEXICO (28-29.Oct.2020, with ISCB-LA SolBio BioNetMX) *virtual on-line*
- 2022** Queretaro, MEXICO (3-7.Nov.2022, joint ISCB-LA SolBio BioNetMX) 11th IC

SolBio (wp.soibio.org) Annual Meetings / International Conferences



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SolBio (wp.soibio.org) Annual Meetings / International Conferences



SOCIEDAD IBEROAMERICANA DE BIOINFORMÁTICA, IBEROAMERICAN SOCIETY OF BIOINFORMATICS (SOIBIO)



ISCB-Latin America, SolBio and BioNetMX
INTERNATIONAL CONFERENCE
on Bioinformatics
<2022>

November 3-7
Querétaro, Mexico

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Workshops & Tutorials

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[CALL FOR SUBMISSIONS](#)

[PROGRAMME & SCHEDULE](#)

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Platinum Sponsors



ISCB-LA SolBio BioNet MX 2022 is pleased to offer the following workshops and tutorials as part of the conference. Additional fees apply to participate in the workshops and tutorials. Attendees are required to bring their own computers to the trainings.

Onsite training will be conducted on Sunday, November 6 at [UNAM-Campus Juriquilla](#). Virtual training will be conducted on Monday, November 7 via the conference virtual platform.

Workshop Fees

	Full Day	Half-Day
Student/Post-Doc	\$40	\$20
Professional	\$60	\$30

Conference registration required to participate in the workshops and tutorials!

In-person Workshops & Tutorials: *Computational Challenges in Phospho-Proteomics and Systems Biology of Cellular Signaling* | Analysis of biological and biomedical transcriptomic data using Artificial Intelligence (AI) and Machine Learning methods (ML) methods with R | *Contributing to pandemic surveillance with the global community, using the European Nucleotide Archive* | *Introduction to Reproducible Systems Computational Modeling Workflows Enabled by COMBINE Standards* | *Exploring Genes and Genomes Using Ensembl* | *Comparative Genomics: Pangenomics and genome mining* | CABANA Train the Trainer Workshop

Virtual Workshops & Tutorials: *GWiz & PAS: Integrated bioinformatics and mobile applications for gene-disease data annotation, expression analysis, and visualization for translational research* | *Metagenomics* | Construction of bacterial pan-genomes | Second Latin-American Bioinformatics Education Forum

SolBio (wp.soibio.org) Annual Meetings / International Conferences



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- 2022 Queretaro, MEXICO** (3-7.Nov.2022, joint **ISCB-LA SolBio BioNetMX**) **11th IC**

Planning: **2023 IC in PERU** (with **SPB2C**); **2024 IC in COLOMBIA** (with **SC2B2 & ISCB-LA**)

Bioinformatics in Latin-America



Volume 20, Issue 2
March 2019

Article Contents

Abstract

Introduction: genome biology, genomics and bioinformatics

Definition of a vast multinational region: Latin- and Ibero-America

Bioinformatics in Latin America and SoIBio impact, a tale of spin-off and expansion around genomes and protein structures

Javier De Las Rivas, Cesar Bonavides-Martínez, Francisco Jose Campos-Laborie

Briefings in Bioinformatics, Volume 20, Issue 2, March 2019, Pages 390–397,
<https://doi.org/10.1093/bib/bbx064>

Published: 28 June 2017 Article history

A correction has been published:

[Briefings in Bioinformatics](https://doi.org/10.1093/bib/bbx114), Volume 18, Issue 6, November 2017, Page 1091,
<https://doi.org/10.1093/bib/bbx114>



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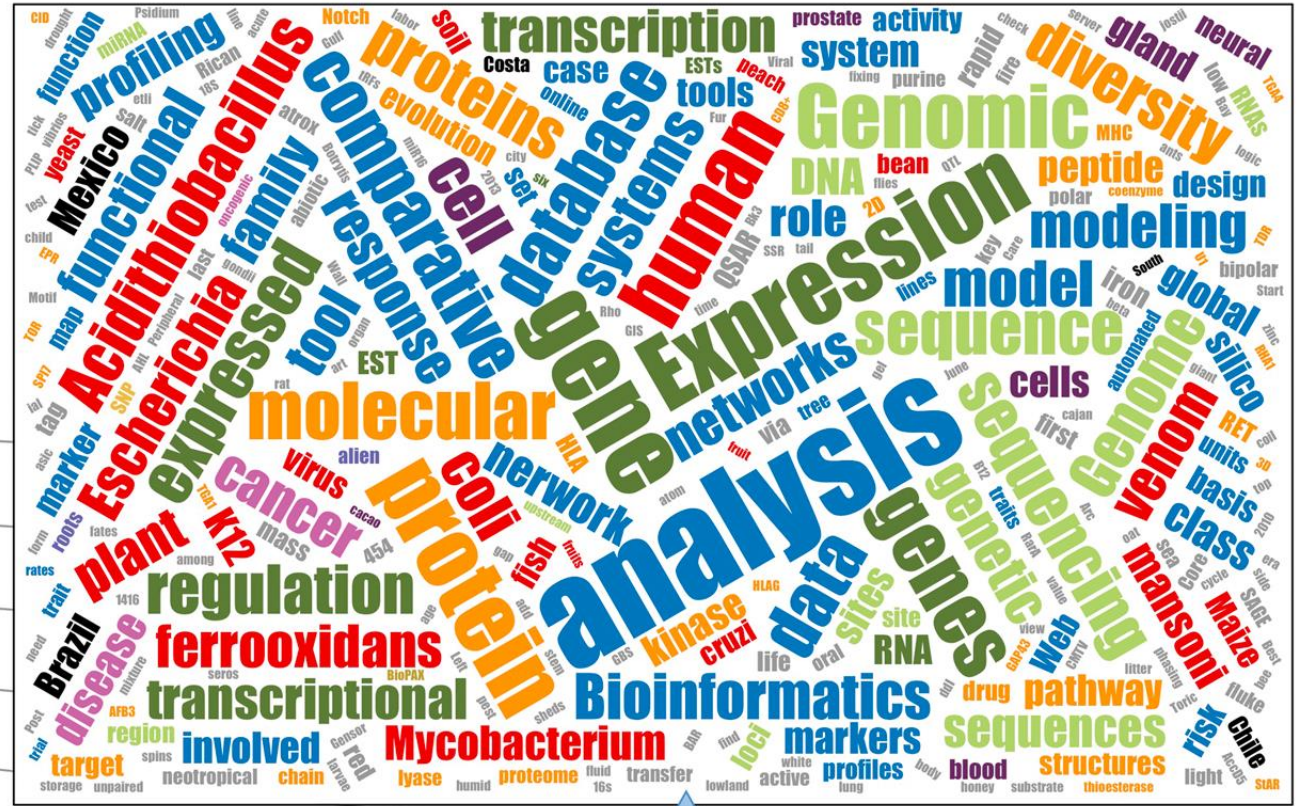
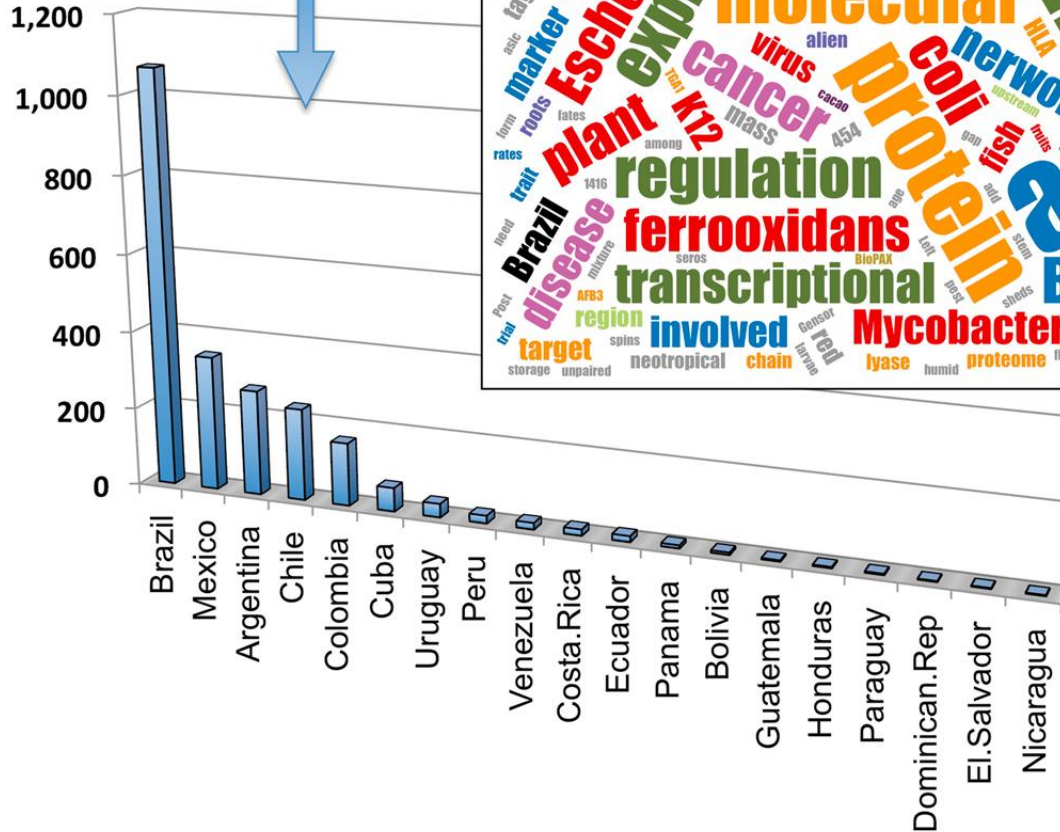
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Why this ad?

Bioinformatics in Latin-America

Research Articles published by scientists from 19 countries of Latin America on *Bioinformatics and Computational Biology* in 25 years (1991-2016): total 2,119

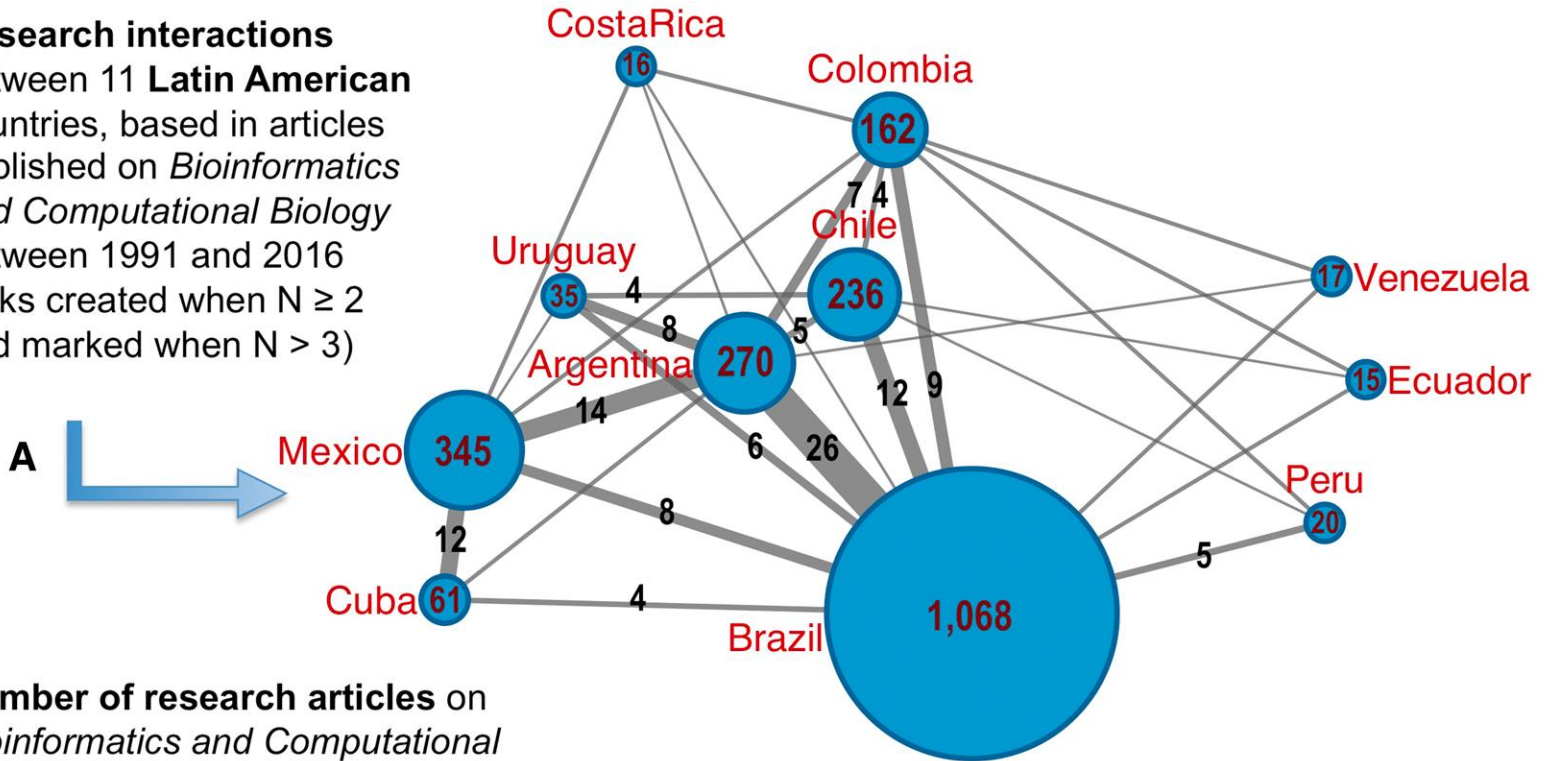


Word-cloud derived from the titles of top-500 most highly cited research articles within the total list of 2,119 papers

- C**
- Best studied organisms (apart from human):
- *Acidithiobacillus ferrooxidans*
 - *Escherichia coli K12*
 - *Mycobacterium tuberculosis*
 - *Schistosoma mansoni*
 - *Trypanosoma cruzi*
 - Other: plants (maize), from animals (venom) ...

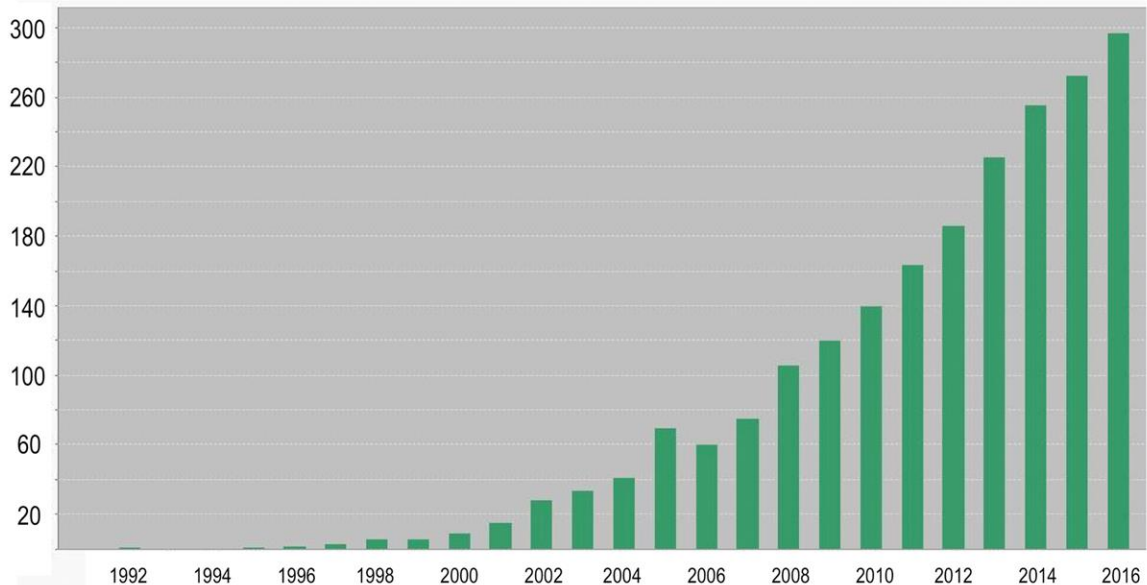
Bioinformatics in Latin-America

Research interactions between 11 Latin American countries, based in articles published on *Bioinformatics and Computational Biology* between 1991 and 2016 (links created when $N \geq 2$ and marked when $N > 3$)

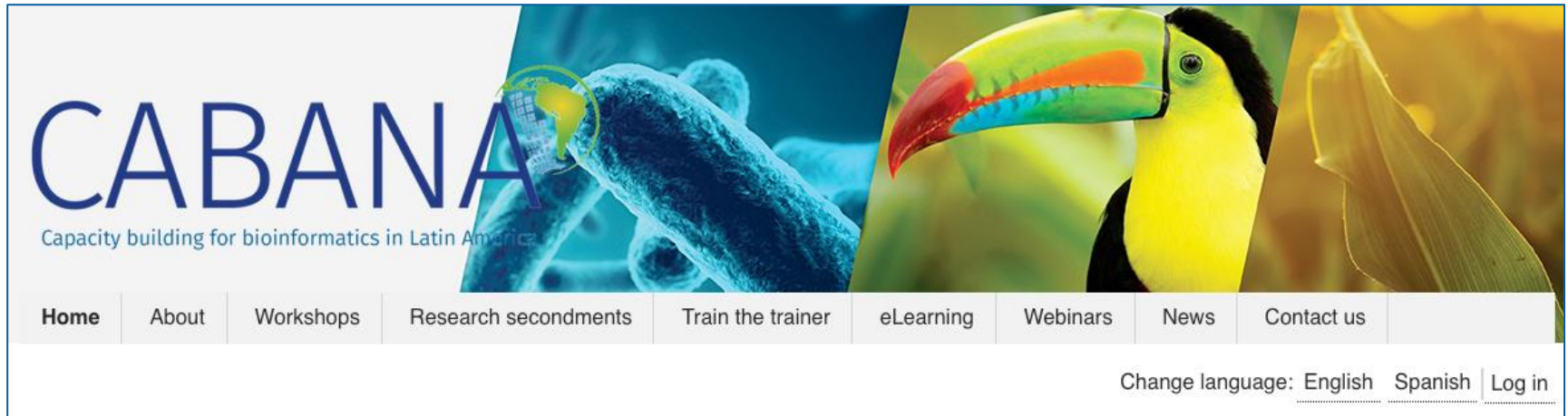


Number of research articles on *Bioinformatics and Computational Biology* published each year by scientists from 19 Latin America countries (from 1991 to 2016): total articles **2,119** and sum of the times cited **26,499**

B



Bioinformatics in Latin-America: recent relevant initiatives



What is CABANA?

- CABANA is a capacity strengthening project for bioinformatics in Latin America.
- It aims to accelerate the implementation of data-driven biology in the region by creating a sustainable capacity-building programme focusing on three challenge areas – communicable disease, sustainable food production and protection of biodiversity.
- CABANA is orchestrated by an international consortium of ten organisations - nine in Latin America and one in the UK.
- CABANA is funded by the Global Challenges Research Fund (GCRF) - part of the UK Aid Budget – from October 2017 to December 2021.

<https://www.cabana.online/>

CABANA has collaborated & participated in these 3 IC promoted by SolBio:

- 2018** Viña del Mar, CHILE (5-9.Nov.2018, joint **ISCB-LA SolBio EMBnet**) **9th** IC-SolBio
- 2019** Montevideo, URUGUAY (28.Oct-1.Nov.2019) **10th** IC-SolBio
- 2020** Queretaro, MEXICO (28-29.Oct.2020, **ISCB-LA SolBio BioNetMX**) **11th** IC-SolBio

Bioinformatics in Latin-America: recent relevant initiatives



Women in
Bioinformatics
& Data Science LA
Fostering collaboration among women

<https://womenbioinfodatascla.github.io/>

First Latin American Congress of Women in Bioinformatics & Data Science Virtual Edition 2020

ORGANIZATION REGISTRATION SPEAKERS CODE OF CONDUCT WORKSHOPS PROGRAM VIRTUAL POSTER SESSION SPONSORSHIPS

1st Congress of Women in Bioinformatics and Data Science Latin America

FREE VIRTUAL MEETING - from 21 to 24 th SEPTEMBER 2020

1st Congress of Women in Bioinformatics and Data Science LA Full Schedule*

Day 1: 21 th September

Track: Bioinformatics and Disease

11:00 to 11:40 - KEYNOTE TALK Shoshana Wodak
11:40 to 13:10 - INVITED SPEAKERS: Cristina Marino Buslje (ARG), Alejandra Medina-Rivera (MXC), Laura Kamenetzky (ARG)
13:10 to 14:30 - LUNCH

Track: Deep Learning, Chemoinformatics, and Drug discovery

14:30 to 15:10 - KEYNOTE TALK: Elizabeth Tapia (ARG)
15:10 to 16:10 - INVITED SPEAKERS: Gabriela Alejandra Merino (ARG), Margot Paulino (UR)
16:10 to 16:20 - COFFEE BREAK
16:20 to 16:40 - Sponsor Talk - Spyder: Juanita Gomez
16:40 to 18:40 - Lightning talks: Daniela Pereira, Brenda Cabrera-Mendoza, Valentina Cobo Paz, Mercedes Didier Garnham, Nelba Perez, Ana Julia Velez Rueda
19:00 to 19:20 - Virtual Poster Session Live Demo

Day 2: 22 th September

Track: Structural Bioinformatics - Biomolecular Simulations

11:00 to 11:40 - KEYNOTE TALK: Wendy Gonzalez Díaz (CHL)
11:40 to 13:40 - Lightning talks: Carla Calvó-Tusell, Angélica Sandoval-Pérez, Lanie Ruiz Pérez, Patricia Soto, Estefanía Mancini, Maiara P. G. Antonio
13:40 to 14:30 - LUNCH
14:30 to 15:10 - KEYNOTE TALK: Pilar Cossio (COL)
15:10 to 17:10 - INVITED SPEAKERS: Layla Hirsh (PER), Ariela Vergara (CHL), Maria Laura Fernandez (ARG), Elin Teppa (ARG)

Track: Data Mining and Big Data Analysis

17:10 to 18:10 - INVITED SPEAKERS: Patricia Ordoñez (Pto.R), Sofia Lavista Llanos (ARG)
18:10 to 19:10 - Virtual Poster Session Live Zoom Rooms by track

Time zone Buenos Aires (GMT-3)

1st Congress of Women in Bioinformatics and Data Science LA Full Schedule*

Day 3: 23 th September

Track: Genomics and Evolution

11:00 to 11:40 - KEYNOTE TALK: Ana Teresa de Vasconcelos (BRZ)
11:40 to 13:40 - Lightning talks: Samara M. C. Lemos, Aline Soares Dos Reis, Mayla Abraham, Luz Adriana Pedraza Herrera, María Belén Brunner, Iriel A. Joerlin Luque
13:40 to 14:30 - LUNCH
14:30 to 15:10 - KEYNOTE TALK: Gloria Regina Franco (BRZ)
15:10 to 17:10 - INVITED SPEAKERS: Norma Paniego (ARG), Lucia Chemes (ARG), Selene Fernández (MXC), Marisa Nicolás (BRZ)

Track: Systems Biology

17:10 to 18:40 - INVITED SPEAKERS: Jessica Carballido (ARG), Ayari Fuentes Hernández (MXC), Catalina Arévalo (COL)
18:40 to 19:10 - Women in STEM Conversatory

Day 4: 24 th September - Workshops

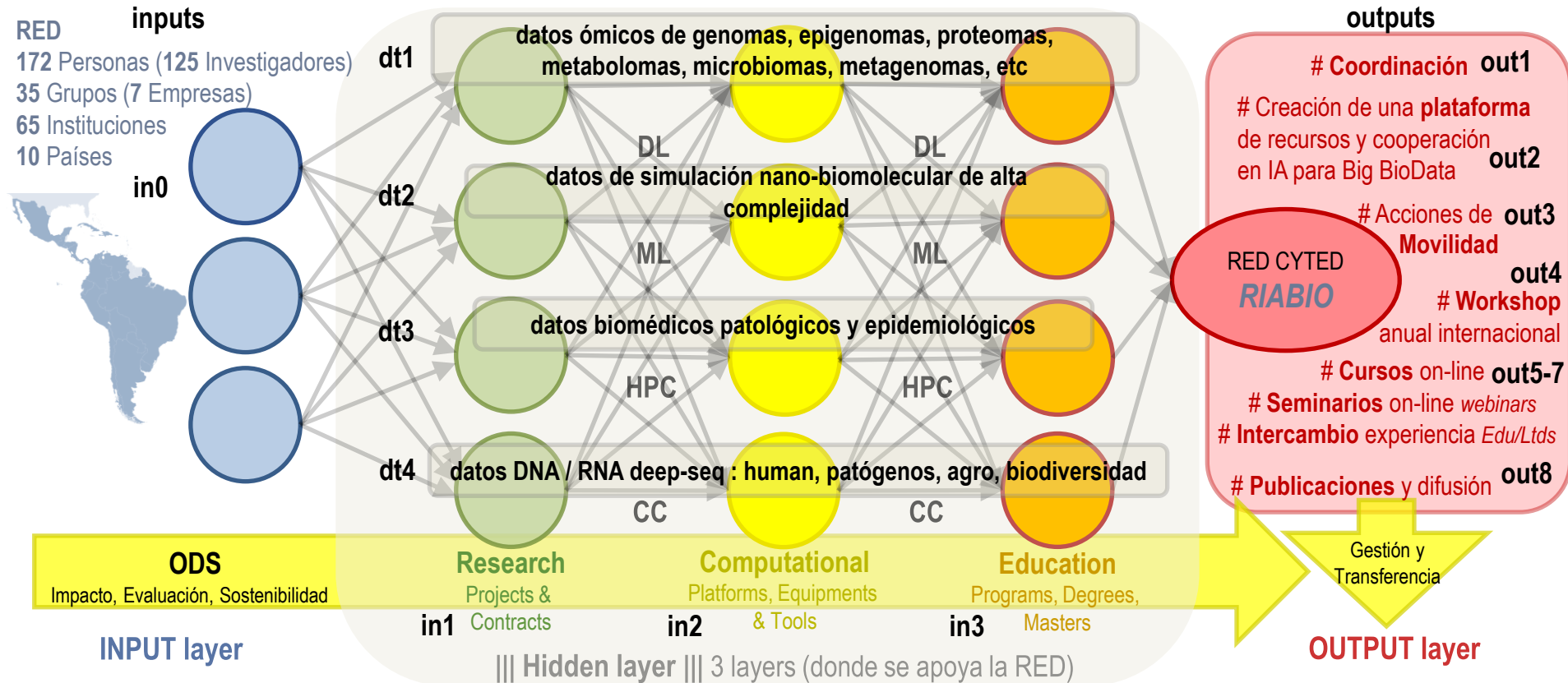
11:00 to 19:00 - GBS Data Analysis
11:00 to 19:00 - Molecular Phylogenetics
11:00 to 18:30 - Machine Learning for Drug Design
11:00 to 14:00 - Analysis of Molecular Dynamics Simulation Data Using Python
15:30 to 18:30 - Introduction to Machine Learning with Tidymodels
17:00 to 21:00 - Introduction to R with tidyverse

*The program could be subject of last minute changes if needed.

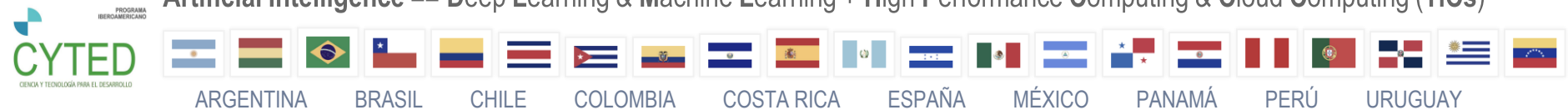
Bioinformatics in Latin-America recent relevant initiatives

RIABIO : A network grant by CYTED for 2021-2024

RIABIO :: Red Iberoamericana de Inteligencia Artificial para Big BioData



Artificial Intelligence == Deep Learning & Machine Learning + High Performance Computing & Cloud Computing (TiCs)

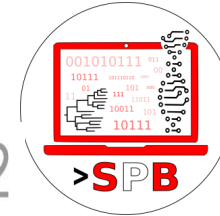


Development and evolution of Bioinformatics in Latin America

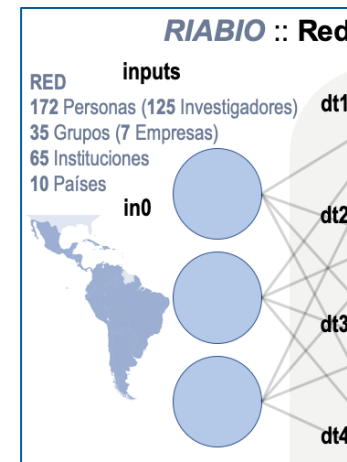


7 National Societies:
Argentina, Brasil

Central-America, Chile,
Colombia, México, Peru



22 countries **SoIBio**



Links with other International Bioinformatic Organizations

SolBio international society (in a region with great cultural links)

