



CABANA

Capacity building for Bioinformatics in Latin America
Report for Advisory Board, 16 Oct 2019, Lima, Peru

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What is CABANA?

- Accelerating data-driven biology in Latin America by introducing a sustainable programme for building capacity in the region
- Orchestrated by an international consortium of ten organisations – nine in Latin America, one in the UK
- Funded by the Global Challenges Research Fund – part of the UK AID budget – and aligned with the UN's sustainable development goals
- 1 Oct 2017 – 31 Dec 2021



Who is making it happen?

EMBL-EBI



Cinvestav



UNIVERSIDAD DE COSTA RICA



USMP
UNIVERSIDAD DE SAN MARTIN DE PORRES



CIP
INTERNATIONAL POTATO CENTER
A CGIAR RESEARCH CENTER



Universidad de los Andes



VALE

INSTITUTO TECNOLÓGICO VALE



UNICAMP



UNIVERSIDAD DE BUENOS AIRES
SIGMAVIRTUS ROBERTVS DIVVM



Instituto Nacional de Tecnología Agropecuaria

The dearth of data-driven biology in the region

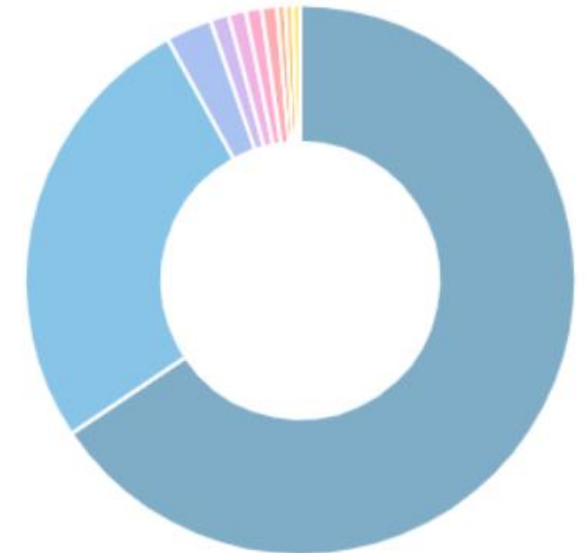


IGSR and the 1000 Genomes Project: underrepresentation of sequences from Latin American populations reduces the usefulness of the data set for personalised medicine on the continent



Earth Biogenome project: 7 megabiodiverse countries in LatAm; one seat on the EBP Coordinating Council

Number of Sequences by Country (Top 10)



(Click on a legend item to exclude)

COVID-19 Data Portal: 142 out of 165,000 sequences in COVID-19 Data Portal are from LatAm countries

How are we addressing these issues?

Address the slow implementation of data-driven biology by creating a sustainable capacity-building programme

Research
second-
ments
22/28

Train-the-
trainer
workshops
6/4

Short
courses
19/28

eLearning
5/13
courses
publication-
ready

Innovation
awards
7 funded

Challenge 1: communicable disease

Challenge 2: sustainable food production

Challenge 3: protection of biodiversity

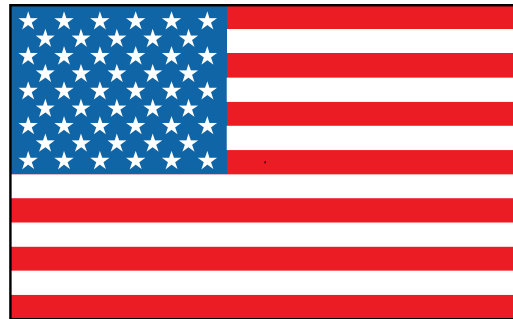
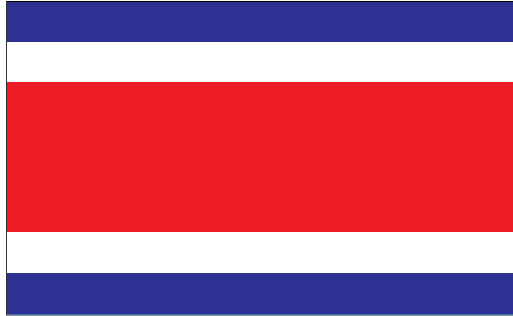
Open science • Inclusivity • Training at all career stages

Yesterday's session



- Themes
 - How do we coordinate sequencing and analysis - nationally and across borders?
 - Understanding virus evolution and impacts on pathogenicity
 - How do we move beyond our understanding in major cities to track local variants and understand the impact of COVID-19 in remote regions?

Today's session



Panel discussion:

What are the common challenges and what mechanism can we find for support and collaboration at national and international levels?



Thank you for listening!

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