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association®

The Latin America and Caribbean Consortium on Dementia (LAC-CD): *Towards a common voice across the region*

Agustin Ibañez



Miami, May 2019



**GLOBAL
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CONFERENCE**

May 7 – 9, 2019
InterContinental Hotel
Miami, Florida

**Innovative research.
Global solutions.**

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& Social Work



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Disclosures

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Outline

Antecedents

How we got here?

LAC-CD Today

National Representatives

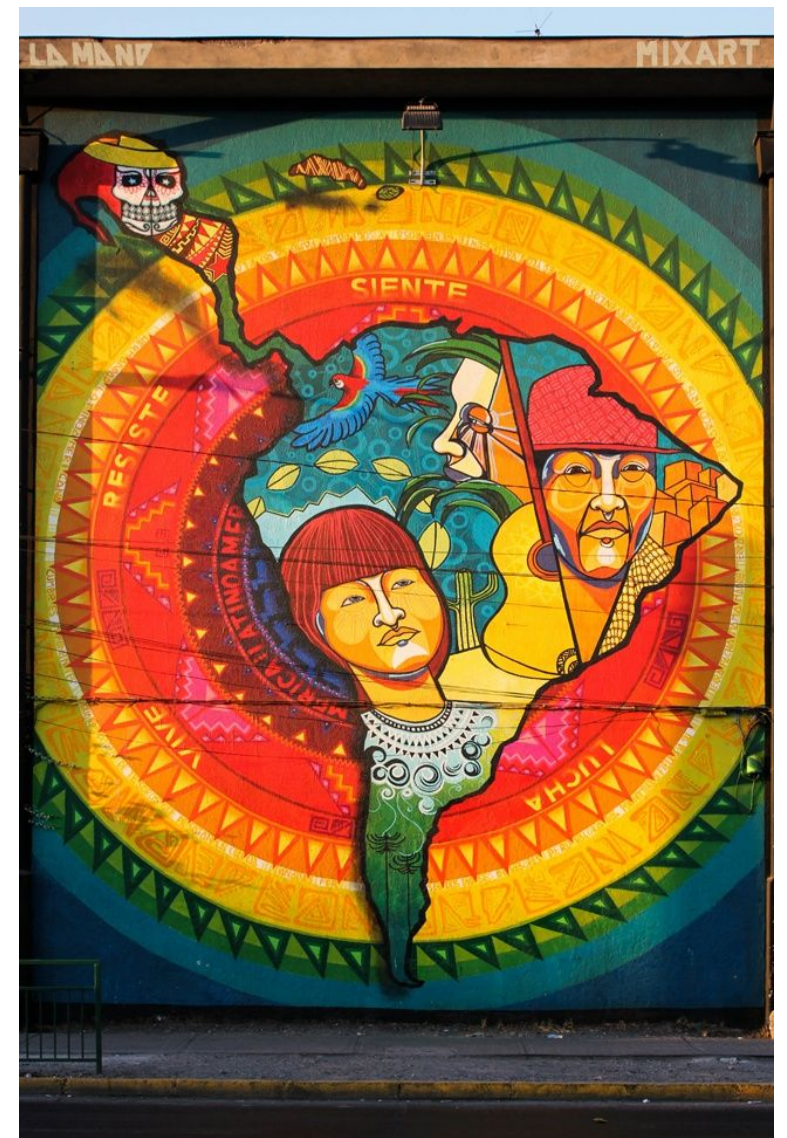
Current Initiatives

Other ongoing projects

Potential synergies to explore

Conclusions

Turning regional challenges into advantages by
integrating multiples voices

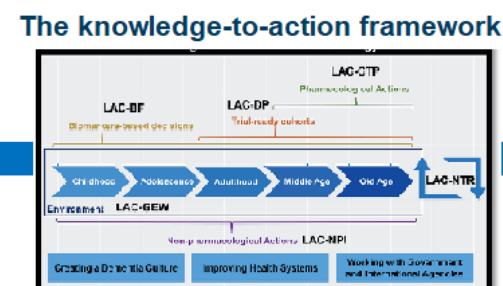




Antecedents



LAC-CD
Towards specific actions that will enable a regional and global integration of Latin American Countries



XXII World Congress of Neurology
Santiago - Chile 2015
Changing Neurology Worldwide
Santiago, Chile, October 31 - November 5, 2015

alzheimer's association
AAIC 17
JULY 16-20 > LONDON, ENGLAND

AAIC Satellite Symposium

AAIC Satellite Symposium



Buenos Aires
Argentina
April 17-18, 2018



Sao Paulo
Brazil
April 10-12, 2019

Membership

15



Antecedents

Working on it: A shared voice across the region

VIEWES & REVIEWS OPEN ACCESS

Dementia in Latin America

Assessing the present and envisioning the future

Mario A. Parra, MD, PhD, Sandra Baez, PhD, Ricardo Allegri, MD, PhD, Ricardo Nitrini, PhD, Francisco Lopera, MD, PhD, Andrea Slachevsky, MD, PhD, Nilton Custodio, MD, PhD, David Lira, PhD, Olivier Piguet, PhD, Fiona Kumfor, PhD, David Huepe, PhD, Patricia Cogram, PhD, Thomas Bak, PhD, Facundo Manes, MD, PhD, and Agustin Ibanez, PhD

Neurology® 2018;90:222-231. doi:10.1212/WNL.0000000000004897



Editorial: Human and Animal Models for Translational Research on Neurodegeneration: Challenges and Opportunities From South America

Agustin Ibañez^{1,2,3,4,5*}, Lucas Sedeño^{1,2}, Adolfo M. Garcia^{1,2,6}, Robert M. J. Deacon^{1,7} and Patricia Cogram^{1,7}

Dementia in Latin America: An Emergent Silent Tsunami

Sandra Baez^{1,2} and Agustin Ibañez^{1,2,3,4,5*}

HUMAN AND ANIMAL MODELS FOR TRANSLATIONAL RESEARCH ON NEURODEGENERATION: CHALLENGES AND OPPORTUNITIES FROM SOUTH AMERICA

EDITED BY: Agustin Ibañez, Lucas Sedeño, Adolfo M. Garcia, Robert M. J. Deacon and Patricia Cogram
PUBLISHED IN: Frontiers in Aging Neuroscience



IV CONGRESO NACIONAL E INTERNACIONAL DE NEUROCIENCIAS Y NEUROPSICOLOGÍA
San Agustín HUILA - COLOMBIA
AGOSTO 29 al 31 / 2018



LAC-CD Membership Confirmation

QUESTIONS RESPONSES 159

Membership confirmation: Latin America and Caribbean Consortium Group on Dementia (LAC-CGD)

Dear members

Please provide the information below
Thanks for your support and interest and we will look forward to your response

Agustin & Mario

Latin America and Caribbean Consortium on Dementia (LAC-CD)

QUESTIONS RESPONSES 73

Section 1 of 2

Latin America and Caribbean Consortium on Dementia (LAC-CD) - Manuscript's first draft ready for internal review:

Groups

NEW TOPIC

My groups

Home

Starred

Favourites

Click on a group's star icon to add it to your favourites

Recently viewed

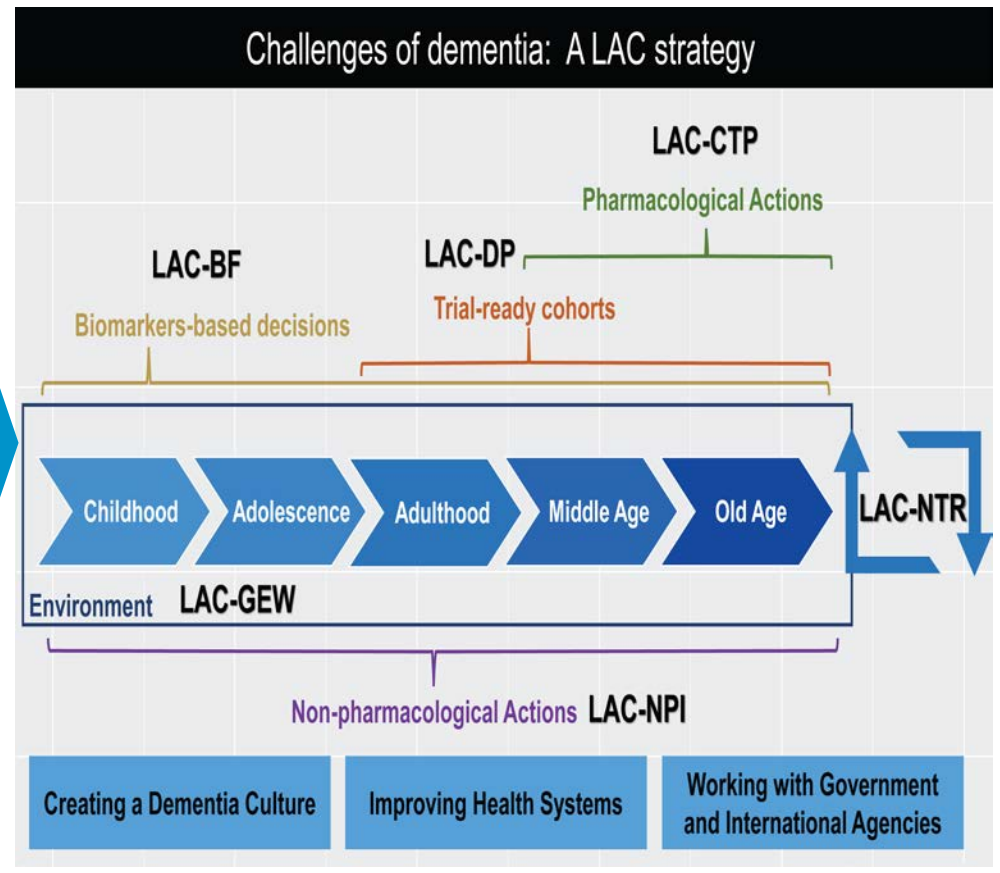
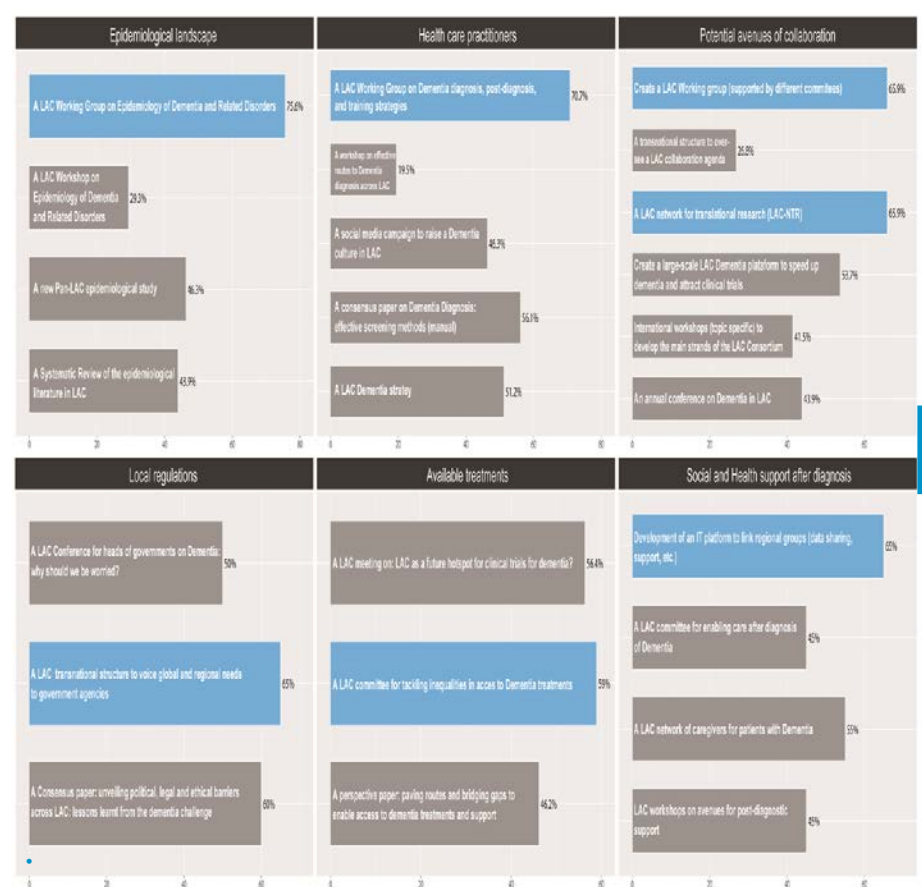
LAC-CD Shared privately

12 of 12 topics (11 unread) ☆

- Breakfast Invitation: LAC-CD meeting, GBHI Annual meeting and AAIC Satellite Symposium, Sao Paulo, Brazil (2)
By aibanez - 2 posts - 1 view
- Sleep and MCI? sueño y DCL? (3)
By Quiroz, Yakeel T., Ph.D. - 3 posts - 0 views
- Multicenter study of genetics of FTD in Latin America (13)
By aibanez - 13 posts - 0 views
- Opportunity for Multicenter collaboration on Primary Progressive Aphasia (PPA) (1)
By aibanez - 1 post - 7 views
- LAC-CD: Confirmed representatives and new nominations from Costa Rica, Cuba, Ecuador, Mexico and Uruguay (7)
By aibanez - 7 posts - 2 views
- Autoridades de la U. de Chile: Cambiar el nombre del Hospital U. de Chile por Eloísa Díaz, primera mujer médico en Chile (1)
By rvasquez - 1 post - 5 views
- Time to vote for nominated from Cuba, Costa Rica, Ecuador, Mexico, Paraguay, Uruguay. (1)
By aibanez - 1 post - 1 view

The knowledge-to-action framework

Implement priority actions in the context of global and rapidly changing dementia challenges



- Promoting a dementia culture regionally
- Facing lack of awareness and epidemiological data
- Improving health systems
- Seeking and securing governmental and international support
- Towards scientific networks and platforms in the region
- Translational implementations
- Situating the biomarkers agenda in the region

Mario Alfredo Parra¹, Sandra Baez², Lucas Sedeño³, Cecilia Gonzalez Campo⁴, Hernando Santamaría-García⁵, Ivan Arahamian⁶, Paulo HF Bertolucci⁷, Julian Bustin⁸, Maria Aparecida Camargos Bicalho⁹, Carlos Cano-Gutierrez¹⁰, Paulo Caramelli¹¹, Marcia L. F. Chaves¹², Patricia Cogran¹³, Bárbara Costa Beber¹⁴, Felipe A. Court¹⁵, Leonardo Cruz de Souza¹⁶, Nilton Custodio¹⁷, Andres Damian¹⁸, Myriam De la Cruz¹⁹, Roberta Diehl Rodriguez²⁰, Sonia Maria Dozzi Brucki²¹, Lissete Duque Peñailillo²², Henry Willy Engler²³, Marcia Lorena Fagundes Chaves²⁴, Lais Fajersztajn²⁵, Gonzalo A. Farias²⁶, Fernanda G. De Felice²⁷, Ignacio Fernandez Mata²⁸, Raffaele Ferrari²⁹, Fabricio Ferreira de Oliveira³⁰, Sergio T. Ferreira³¹, Ceres Ferretti³², Marcio Luiz Figueredo Balthazar³³, Norberto Anizio Ferreira Frota³⁴, Patricio Fuentes³⁵, Adolfo M. Garcia³⁶, Patricia J. Garcia³⁷, Fábio Henrique de Gobbi Porto³⁸, Christian Gonzalez-Billault³⁹, Alejandra Guerrero Barragan⁴⁰, David Huepe⁴¹, Fabricio Joao Pio⁴², Claudia Kimie Suemoto⁴³, Renata Kochhann⁴⁴, Silvia Kochen⁴⁵, Fiona Kumfor⁴⁶, Sergio Lanata⁴⁷, Leticia Lessa Mansur⁴⁸, Mirna Lie Hosogi⁴⁹, Patricia Lillo⁵⁰, Jorge J. Llibre Guerra⁵¹, David Lira⁵², Francisco Lopera⁵³, Oscar Lopez⁵⁴, Patricia Cristina Lourdes Solis⁵⁵, Renata Eloah de Lucena Ferretti-Rebustini⁵⁶, Facundo Manes⁵⁷, Jeronimo Martin Ramirez⁵⁸, Diana Matallana⁵⁹, Lingani Mbakile-Mahlanza⁶⁰, Alyne Mendonça Marques Ton⁶¹, Ronnielly Melo Tavares⁶², Bruce Miller⁶³, Eliane C. Miotto⁶⁴, Sebastian Moguilner⁶⁵, Laura Morelli⁶⁶, Graciela Muniz-Terrera⁶⁷, Luis Arnoldo Muñoz-Nevárez⁶⁸, Ricardo Nitrini⁶⁹, David Orozco⁷⁰, Maira Okada de Oliveira⁷¹, Olivier Piguet⁷², Maritza Pintado Caipa⁷³, Stefanie Danielle Piña Escudero⁷⁴, Lucas Porcello Schilling⁷⁵, Yakeel Quiroz⁷⁶, André Luiz Rodrigues Palmeira⁷⁷, Mônica Sanches Yassuda⁷⁸, Jose Manuel Santacruz-Escudero⁷⁹, Rodrigo Bernardo Serafim⁸⁰, Jerusa Smid⁸¹, Andrea Slachevsky⁸², Cecilia Serrano⁸³, Marcio Soto-Añari⁸⁴, Leonel Tadao Takada⁸⁵, Lea Tenenholz Grinberg⁸⁶, Antonio Lucio Teixeira⁸⁷, Maira Tonidandel Barbosa⁸⁸, Teresa Torralva⁸⁹, Dominic Trépel⁹⁰, Rodrigo A. Vasquez⁹¹, Noelia Weisstaub⁹², Agustín Ibanez⁹³

LAC-CD Today

- +160 members
- 15 countries
- Integration
- Strategic initiatives
- Visibility + web + multicenter initiatives
- Local synergies
- International opportunities



National Representatives from 10 countries

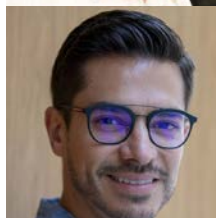
Brazil - Nitrini, Ricardo



Chile - Slachevsky, Andrea



Colombia - Lopera, Francisco



Costa Rica - Leon, Jorge



Cuba - Llibre, Juan J:



Ecuador - Unaicho, Martha



Mexico - Sosa, Ana Luisa



Peru - Custodio, Nilton



Uruguay - Damian, Andres



Argentina - Ibañez, Agustin

Behavioral Insights Team for Social Protection and Health Policies: A lifespan approach



Agencies



Research groups



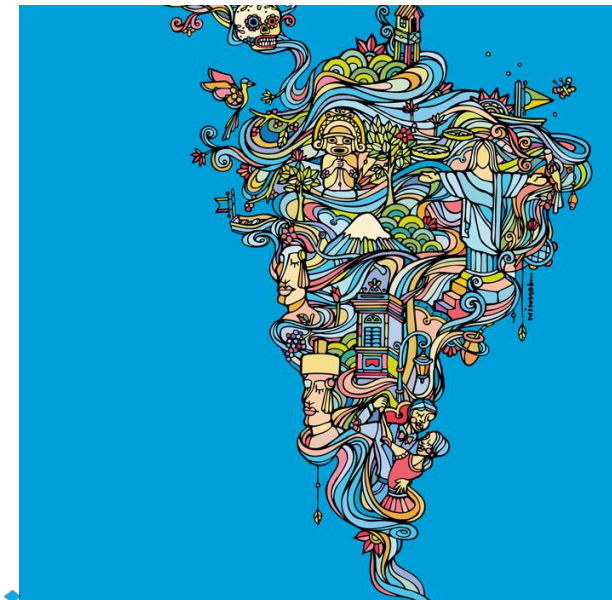
I N C Y T



External partners

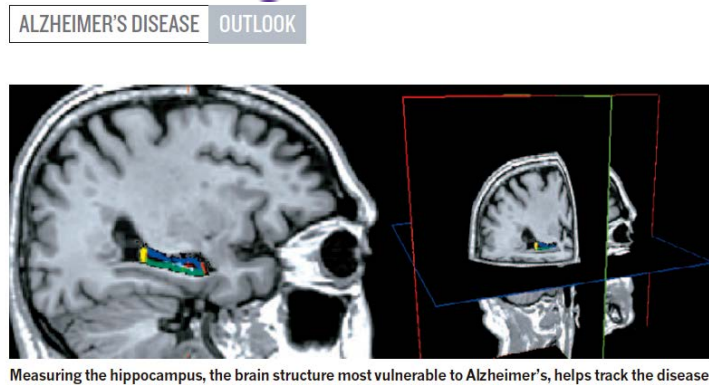
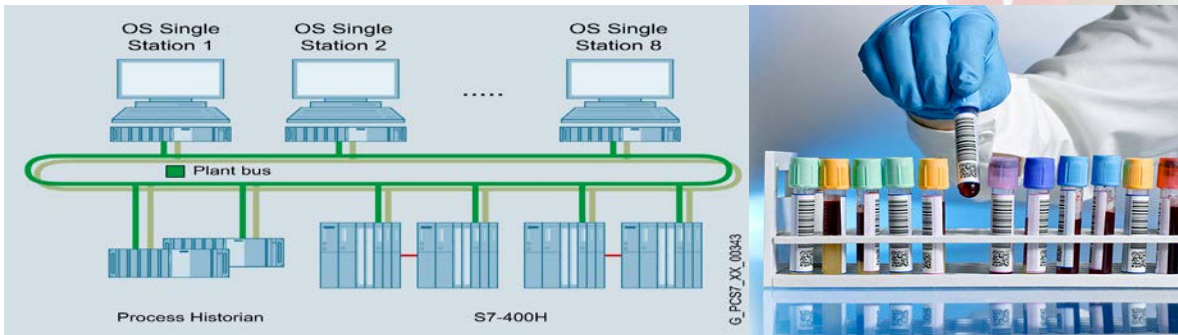


THE BEHAVIOURAL INSIGHTS TEAM



BID-RPG: To develop a multimodal regional dementia platform for:

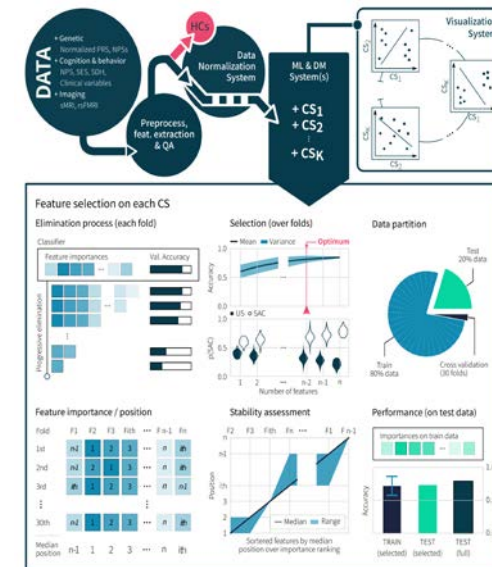
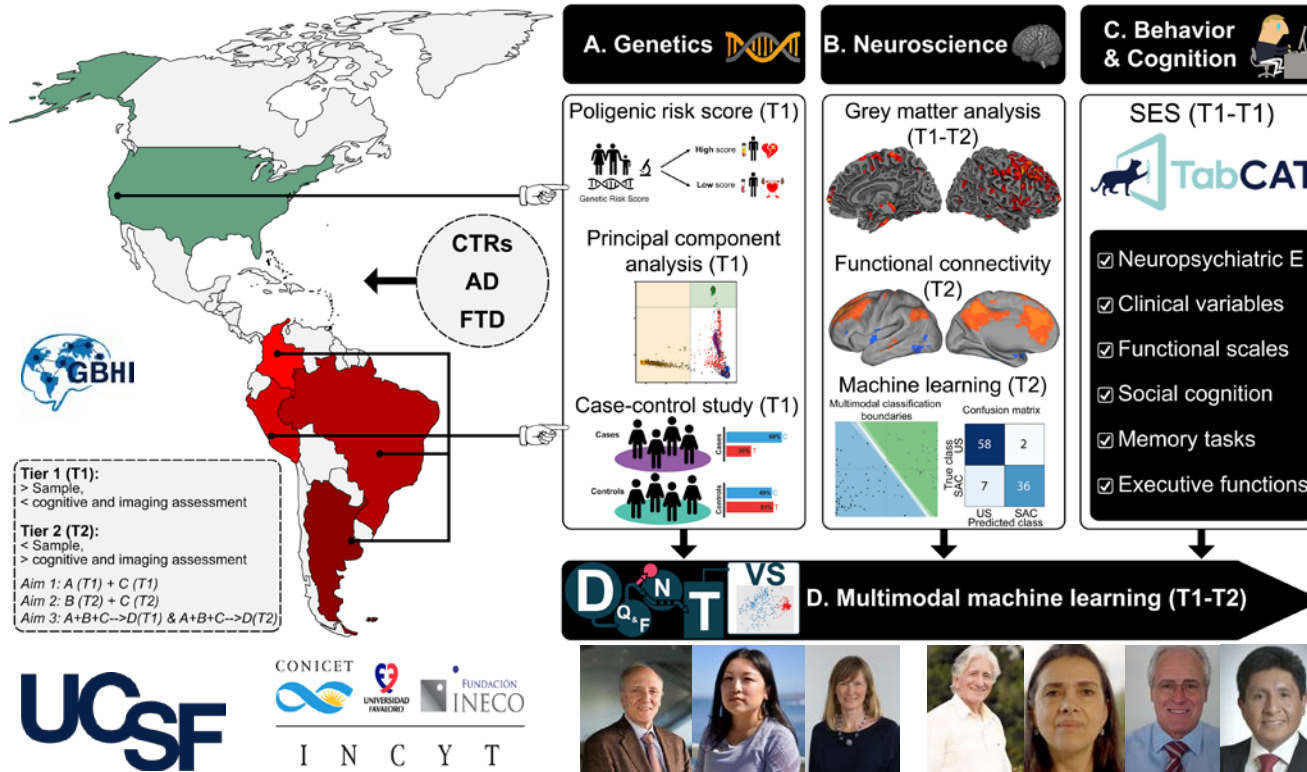
Regional big-data consortium,
 Software for Multimodal PA assessment,
 Algorithms to improve the diagnosis
 Basic standards of and guidelines for diagnosis



Levels of Action	Issues	Suggested Strategies
Assessment	Maximize resource utilization and access	LAC Consensus and Manual Congress and divulgation with regional journals Consolidation of a regional network for translational neuroscience.
Translation and Implementation	Platform	Regional consortium for research and improved assessment: Software for Multimodal PA assessment, Algorithms to improve the diagnosis post-diagnosis support, training, and Intervention programs.



US-South American initiative for genetic-neural-behavioral interactions in human neurodegenerative research



Total sample:
>3000 participants

1500 controls

750 AD patients

750 FTD patients

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IPN DE NEUROCIENCIAS



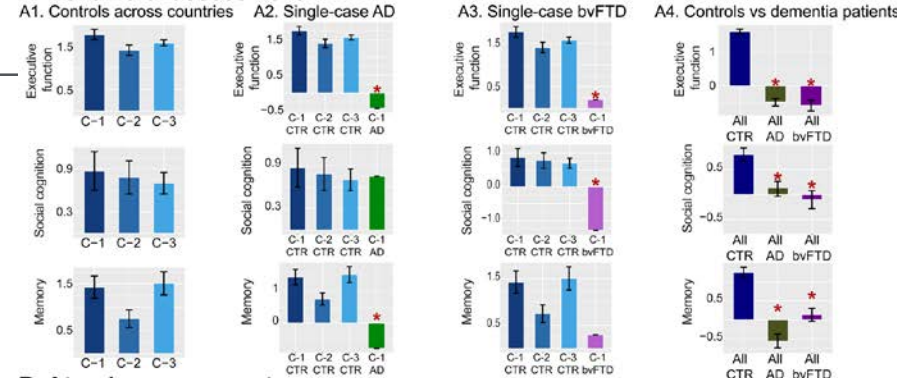
- (a) Establish genetic risk to AD and FTD in diverse SAC cohorts;
- (b) Test whether patients from SAC and the US can be discriminated after accounting for how SES affects cognitive and brain imaging signatures; and
- (c) Determine genetic, cognitive, cerebral, and socioeconomic factors that discriminate among SAC vs. US patients.

Favorites
Participants were asked to remember people and their favorite food and animal. On each of two learning trials, four different faces were shown twice, once with a favorite food and once with a favorite animal. Accuracy was summed across two immediate recall and one 10-minute delay recall trial.

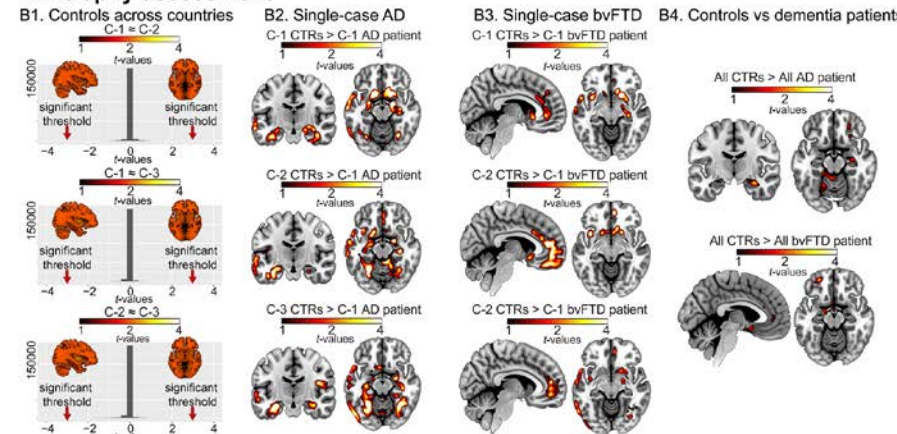
Match
A series of digits appeared in the center of the display, and participants were asked to tap the corresponding picture at the bottom of the screen as quickly as possible. Accurate responses in 2 minutes were totaled.

Line Orientation
Participants were asked to tap the orange line that was parallel to the white line. The "angle difference" between the nonmatch orange line and the white line was staircase based on response accuracy, and scores estimated the angle difference where the probability of a correct response is between 71-75%.

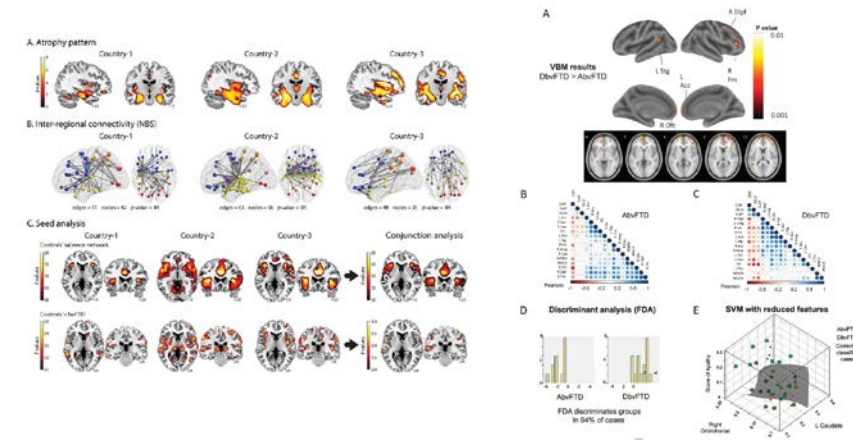
A. Behavioral assessment



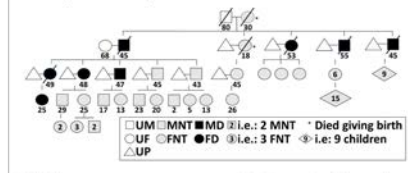
B. Atrophy assessment



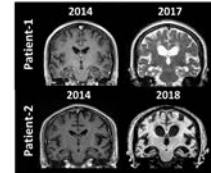
Tackling Variability: A Multicenter Study to Provide a Gold-Standard Network Approach for Frontotemporal Dementia



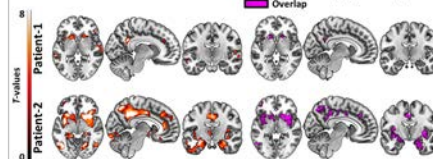
A. Family tree of the patients



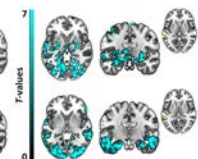
B. Brain atrophy evolution



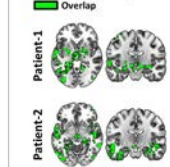
C. VBM



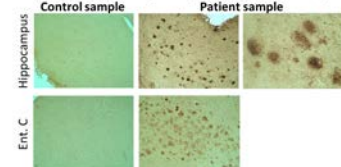
D. Gene-atrophy overlap



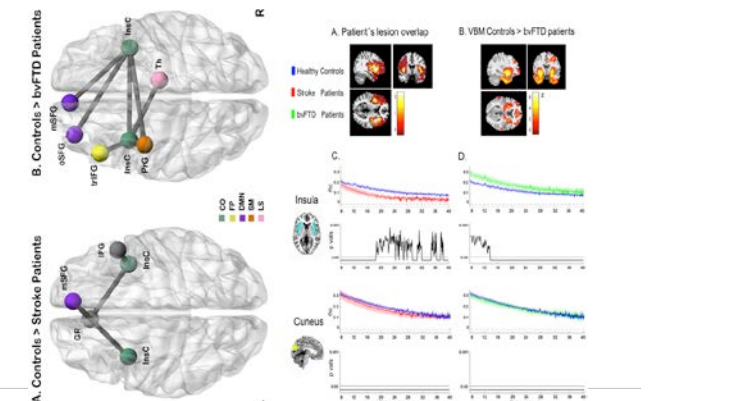
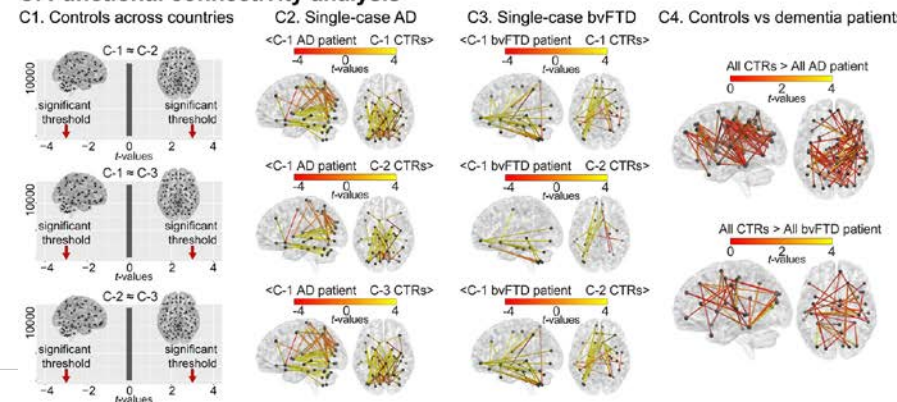
F. Gene-FC overlap

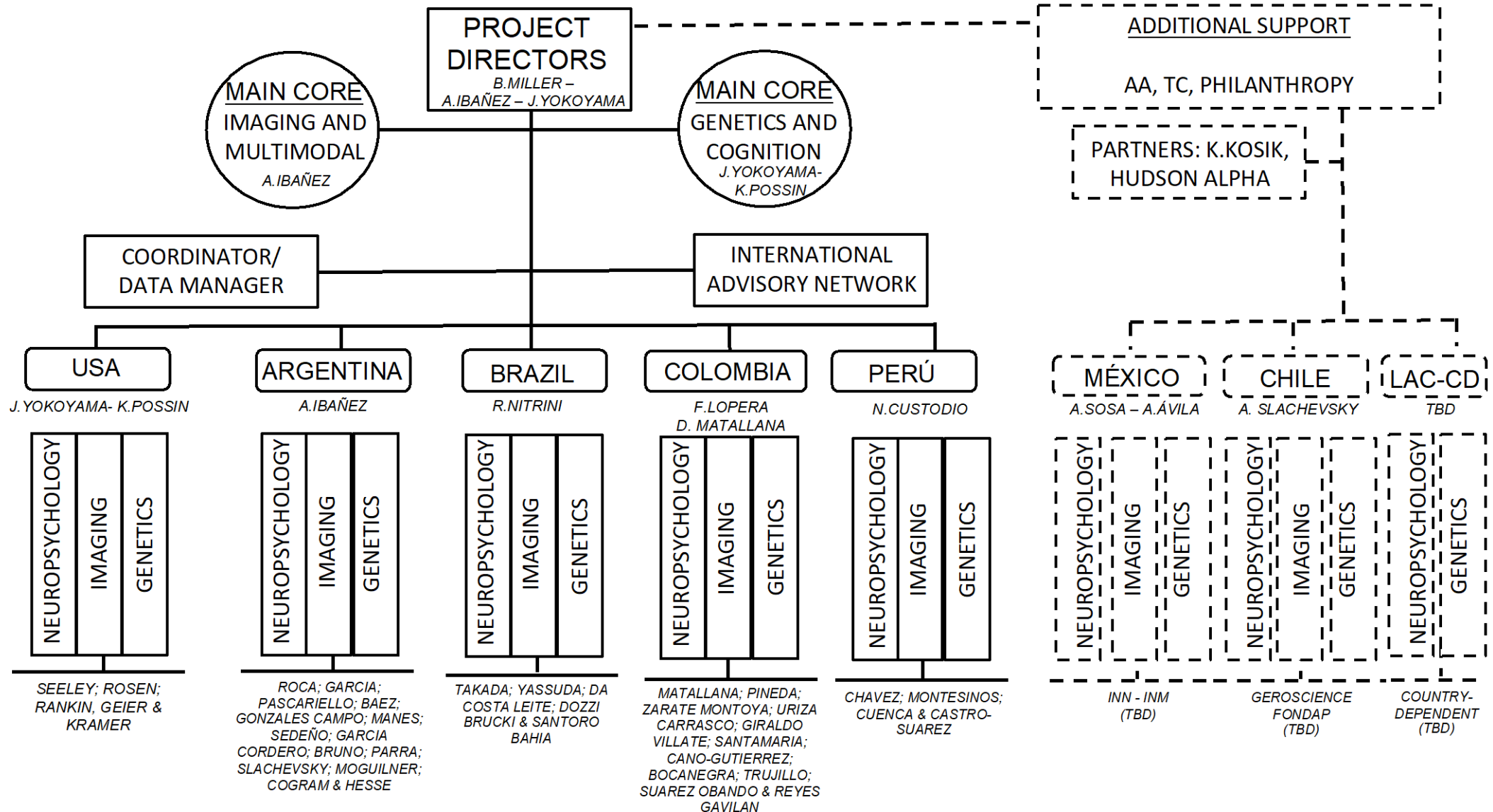


G. Immunohistochemistry analysis: amyloidosis deposits



C. Functional connectivity analysis

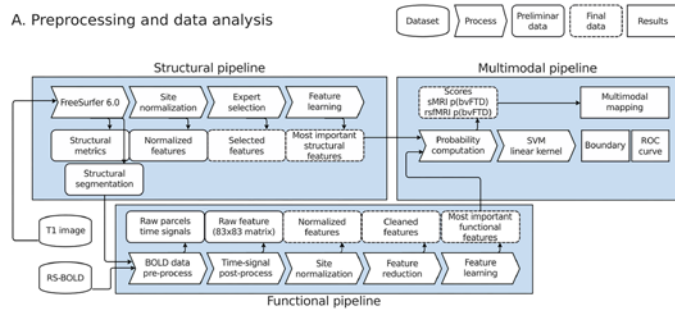




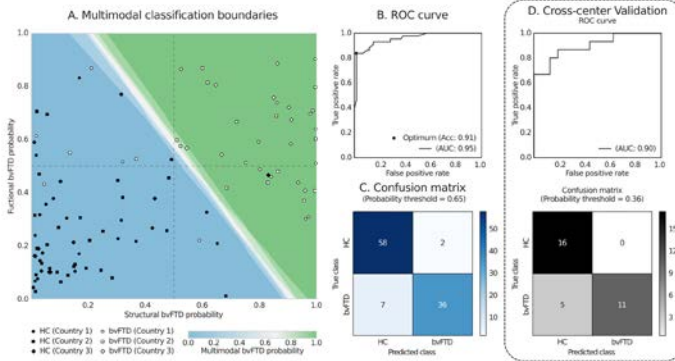
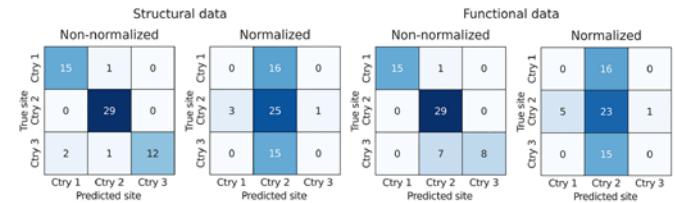
Other ongoing initiatives

Computational approaches multimodal/multicenter neuroimaging

A. Preprocessing and data analysis



B. Site normalization validation



Multicenter studies of neurocognitive biomarkers across regions



Horizontal communication and self-organized initiatives



Latin America and Caribbean interest group

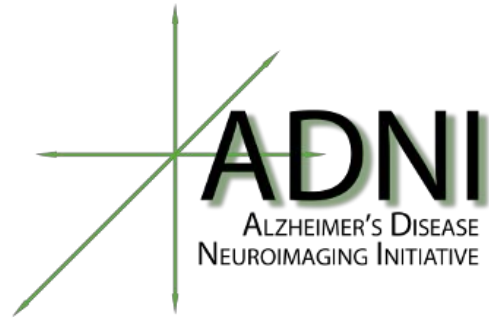


GBHI-AA project (in prep.)
Networking in the region



THE UNITED CONSORTIUM

Potential synergies to explore



Turning regional challenges into advantages by integrating multiples voices

- Heterogeneity and multinational approaches.
- Learning from genetic isolates and unique populations.
- SES, SDH and Influence of complex environmental factors.
- Regional Clinical Trial Program.
- Nonpharmacological interventions and lifestyle factors.

Sustained dialogue to (1) translate differences into shared concerns and actions, (2) raise awareness of where knowledge and resources should be more quickly deployed, (3) promote an equitable growth of those in the least favorable positions, and (4) guide critical regional development



Thank you!

**Innovative research.
Global solutions.**

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