

# **Symposium 5: Leveraging policies to influence and enhance responsible conduct of research (RCR)**

International collaboration as a tool to  
elevate and enact development of local  
policies and practice

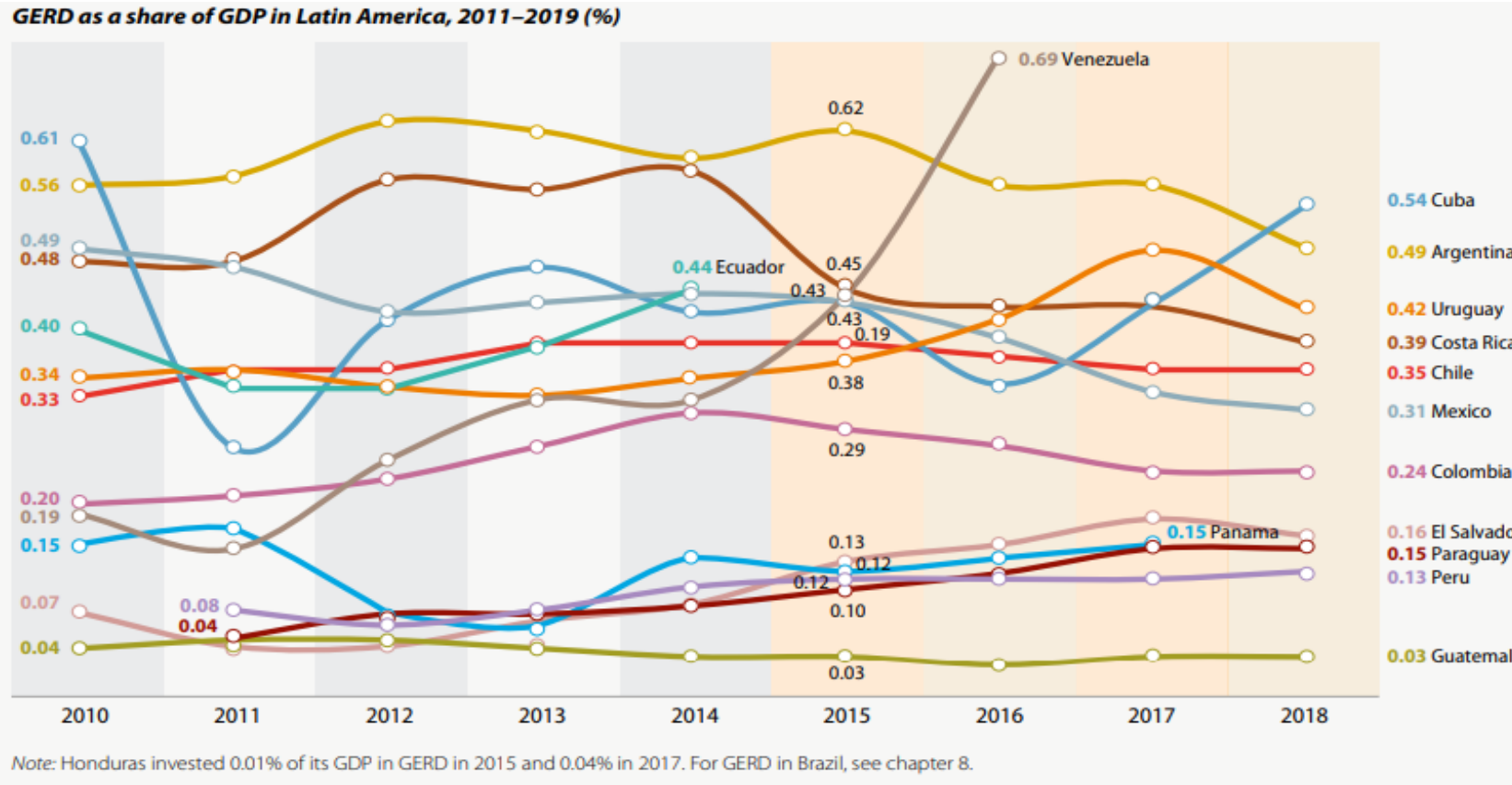
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# Trends in research expenditure in Latin America



**Compared to:**  
**1,26 % of GDP in Brazil**  
**2,03 % of GDP in EU**  
**3,09 % of GDP in the US**  
**3,26 % of GDP in Japan**

# Trends in scientific publishing in Latin America

*Top five partners for Latin America for scientific co-authorship, 2017–2019 (number of papers)*

	1st collaborator	2nd collaborator(s)	3rd collaborator	4th collaborator(s)	5th collaborator
<b>Argentina</b>	USA (5 955)	Spain (3 939)	Brazil (3 428)	Germany (2 701)	France (2 541)
<b>Bolivia</b>	USA (262)	Brazil (194)	France (139)	Peru (134)	Spain (132)
<b>Brazil</b>	USA (25 770)	UK (10 880)	Germany (8 757)	Spain (8 695)	France (8 670)
<b>Chile</b>	USA (7 753)	Spain (5 866)	UK (4 127)	Germany (3 758)	France (3 259)
<b>Colombia</b>	USA (5 418)	Spain (4 039)	Brazil (3 347)	UK (2 326)	Mexico (2 236)
<b>Costa Rica</b>	USA (975)	Spain (379)	Brazil (366)	Mexico (342)	Germany (335)
<b>Cuba</b>	Mexico (751)	Brazil (657)	Spain (607)	USA (493)	Ecuador (381)
<b>Dominican Rep.</b>	USA (257)	Spain (135)	Brazil (74)	Mexico (71)	Argentina (62)
<b>Ecuador</b>	Spain (2 506)	USA (1 832)	Colombia (1 030)	Brazil (996)	Mexico (941)
<b>El Salvador</b>	USA (92)	Mexico (54)	Spain (35)	Guatemala/Panama (27)	
<b>Guatemala</b>	USA (409)	Mexico (159)	Brazil (102)	UK (86)	Spain (79)
<b>Honduras</b>	USA (225)	Brazil (99)	Colombia (95)	Spain (92)	Mexico (78)
<b>Mexico</b>	USA (11 478)	Spain (6 051)	UK (3 467)	France (3 371)	Germany (3 063)
<b>Nicaragua</b>	USA (184)	Mexico (71)	Spain (56)	Colombia/Costa Rica (52)	
<b>Panama</b>	USA (1 025)	UK (289)	Germany (244)	Brazil (242)	Spain (215)
<b>Paraguay</b>	Spain (193)	Brazil/USA (187)		Chile (154)	Argentina (133)
<b>Peru</b>	USA (2 188)	Brazil (1 266)	UK (882)	Spain (863)	France (670)
<b>Uruguay</b>	Brazil (831)	USA (783)	Argentina (730)	Spain (599)	Mexico (339)
<b>Venezuela</b>	USA (781)	Colombia (667)	Ecuador (571)	Spain (506)	Brazil (417)

# Research collaborations

- The rise of research networks, Adams J, Nature 2012;
  - allow better access to resources
  - Improve local research capabilities
  - Speed up the transfer of knowledge
  - Co-authored papers get cited more frequently

# Collaborative Partnership, a principle

## Ethical framework: 8 principles

- Collaborative partnership
- Valuable scientific question
- Valid scientific methodology
- Fair subject selection
- Favorable risk-benefit
- Independent review
- Informed consent
- Respect for enrolled subjects

Emanuel E, Wendler D, Grady C. What makes clinical research ethical? *J Am Med Assoc.* 2000; 283(20):2701-11; Chpt 11 Oxford Textbook 2008  
Emanuel E, Wendler D, Killen J, Grady C. *J Infect. Diseases* 2004; 189:930-7

# National and Regional Regulations for RI: Policies listing standards for RCR



**Peru:** RCR section in its health research regulation.

National Science Foundation: RI Code, 2016 and updated in 2024

**Colombia:** National Research Policy mentions falsification, fabrication and plagiarism with no clear definitions

**Panama:** the National Research Bioethics Committee provides oversight of RCR

# Colombia and Brazil, special notes

## Brazil

- 20 research organizations have policies,
- 9 with permanent RI Offices
- Singapore Declaration, one of the basis for their policies
- Brazilian National Science Foundation (CNPq) : educational and preventive actions, promoting best practices and defining misbehavior, and actions to deter misconduct by investigating and sanctioning

Dirce Guilhem, PhD, U of Brasilia

<https://www.tandfonline.com/doi/epdf/10.1080/08989621.2021.1979969?needAccess=true>

## Colombia

- RI Policy already in place, 2018
- All the work was led by the Colombian Ministry of Science and Technology, COLCIENCIAS
- Includes RI, human subjects protections and bioethics
- Involved national discussions, surveys and educational sessions
- Includes governance, formalization and oversight of research

Carlos Enrique Trillo, Prof. MD, U del Rosario,

[https://minciencias.gov.co/sites/default/files/upload/reglamentacion/resolucion\\_0314-2018.pdf](https://minciencias.gov.co/sites/default/files/upload/reglamentacion/resolucion_0314-2018.pdf)



# The Peruvian Research Integrity Code, 2024

- Influenced by the Declaration of Singapore
- First edition in 2016, latest version in 2024
- Covers members of the Peruvian System of Science and Technology
- Provides definitions, principles, good practices and guides
- Includes most RI components
- Creates the RI Committee for the Peruvian NSF to formally receive and assess misconduct reports, propose adequate sanctions and provides oversight
- Defines infractions and delineates investigation process

# Some research conducted in Peru

Variable	n	%
Human subjects protection	78	89.7
Animal welfare in research	54	62.1
Research misconduct	75	86.2
Mentoring	29	33.3
Collaborative Science	36	41.4
Data management	59	67.8
Authorships and publications	79	90.8
Peer review	24	27.6
Conflict of interest	44	50.6
Science and society	62	71.3

- Abstract submitted to the 6th WCRI in Hong Kong
- Study involved 87 licensed Peruvian universities
- 49% were public
- 40 % located in the capital city
- 94% had a research ethics code
- Scientific integrity components were found in by-laws, researcher ethics codes, intellectual property manuals, among others

# Regional Networks of Research Integrity

# Regional Networks of Research Integrity

European Network of Research Integrity Offices



2007, after the 1st WCRI in Singapore



Asian and Pacific Rim Research Integrity (APRI) Network Meeting 2017

2013, after the 3<sup>rd</sup> WCRI in Montreal, Canada



 Log

Working Together To Promote Research Integrity in

[University of Cape Town in Partnership with ARIN won the bid to Host The 7th WCRI in 2022 Click here to learn more](#)

2015, after the 4<sup>th</sup> WCRI in Rio



2019, after the Sixth WCRI in Hong Kong



# Summary

- International collaborations and funding grants reinforce international standards among low and middle income countries
- Challenges at local level include implementation, identifying qualified professionals to lead the RI offices, clear definitions, among others
- The WCRI declarations have set the foundation for many ethics codes throughout the world
- The World Research Integrity Conferences have had a great impact in LMICs,
  - Singapore and Montreal Statements, as well as the Hong Kong Principles
  - These documents have set the stage for some LMICs RI codes and guidelines
- LMICs have embraced RI but are still at initial stage:
  - training and helping with institutional RI structures work best

