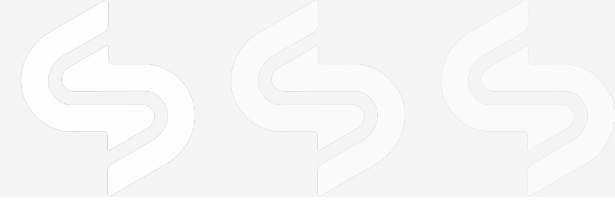




Puerto Rico
Science, Technology
& Research Trust



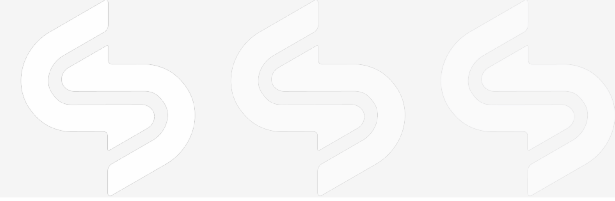
Puerto Rico Science Technology & Research Trust

Research Grants Program



Andreica Maldonado, Director





Mission, Vision and Values

Mission

We invest, facilitate, and build capacity to continually advance Puerto Rico's economy and its citizens' well-being through innovation-driven **enterprises**, **science**, **technology**, and **public health**.

Vision

Puerto Rico is **globally recognized innovation hub**.

Values

Integrity. Entrepreneurial spirit . Collaboration. Leadership. Adaptability. Being a facilitator. Optimism. Respect. Customer focused. Achievement and results. Desire to innovate. Responsibility. Commitment.





Puerto Rico
Science, Technology
& Research Trust

16+ programs to promote innovation

RESEARCH & DEVELOPMENT



ENTREPRENEURSHIP



PUBLIC HEALTH



FOUNDATION PROGRAMS





Grants Program

A structured, systematic, open and competitive funding mechanism to support the development of science and technology research projects in Puerto Rico.

Our mission is to provide incentives for R&D activity to further the Trust's overall mission.





Strategic Sectors



Agriculture and Environmental
Science



Information/Communications
Technology and Cybersecurity



Biotechnology and Life Sciences



Medicine and Public Health



Clean Technology and Renewable
Energy



Physical Sciences and Aerospace

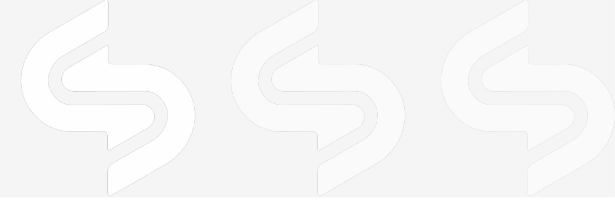


Electronics, Engineering, and
Math



Other Related Sciences





ADVANCED RESEARCH
GRANTS PROGRAM

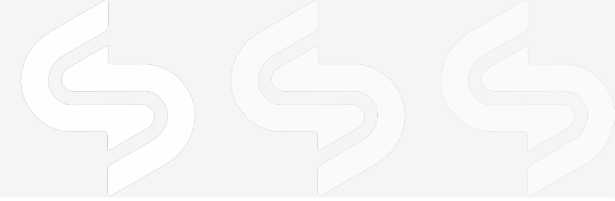
Advanced Research Grants (ARG) - Solicited proposal mechanism with the goal of providing funding to advance locally developed science and technology projects to a point where these will be able to be further developed through alternate sources of funding and/or commercialized. **Up to \$150K**



CATALYZER RESEARCH
GRANTS PROGRAM

Catalyzer Research Grants (CRG) - The **CRG** enhances the competitiveness of Puerto Rico's researchers by providing critical bridge funding to help them (1) obtain reproducible and robust preliminary results, (2) address any recommendations from previous grant reviewers to improve the R&D project to strengthen its position to obtain the grant and (3) secure reagents, laboratory materials, collaborations or additional technical training necessary for the proposed goals. **Up to \$70K**

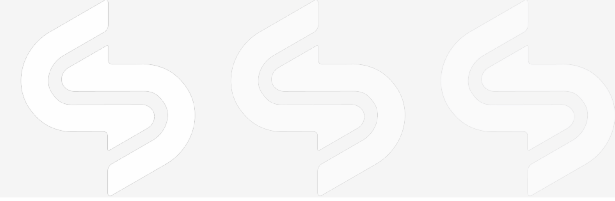




1-to-1 matching funds for Phase I & II SBIR/STTR proposals - 1-to-1 matching funds for **Phase I & II SBIR/STTR proposals**: to promote and increase commercialization of research. Match up to **\$100,000 for Phase I** and up to **\$200,00 for Phase II**.

CDTI Grant - This call will allow the selection and financing of R&D projects in effective collaboration between a Puerto Rican entity (Research Center, University or Company) and a Spanish company. Awards up to **\$75,000/year**.





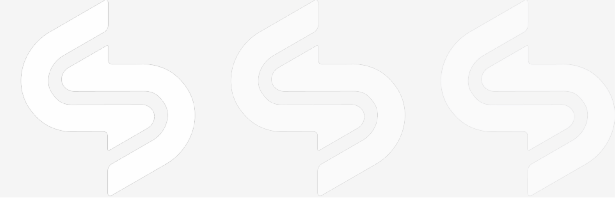
Metrics



Grants Awarded
\$13,811,978

ROI
\$37,301,563

***Numbers based on grantee progress reports (up to August 2022).**



Where are they from?



What type of work they do?

- Research Scientists
- Engineers
- Deans
- Directors of Research
- Company Presidents
- Chief Executive Officers
- Chief Scientific Officers
- Chief Innovation Officers
- Lab Chiefs





Canada

- University of Toronto
- University of Calgary
- McGill University
- University of Manitoba
- University of Alberta



Europe

Universidad de Valencia, Spain
Universidad de Sevilla, Spain
Universidad de Alcalá, Spain
Universidad Complutense, Spain
University of Cambridge , United Kingdom
University Exeter, United Kingdom
University of Aberdeem, United Kingdom
National University of Ireland Galway
Pasteur Institute if Lille, France
University of Copenhagen, Denmark
University of Trieste, Italy



Latin America

- Universidad Tecnológica Nacional, Argentina
- Centro de Investigación Científica de Yucatán, México
- Federal University of Rio Grande do Sul, Brasil
- The Oswaldo Cruz Foundation, Brasil



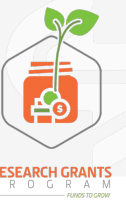
Australia

- Queensland University of Technology, AU
- The Australian National University



Asia

- Delhi Technological University
- Institute of Technology, Nirma University



Scientific Review Board



**Dr. Andrés
García**

Georgia Institute of
Technology



**Dr. Vanessa González-
Pérez**

Princeton University



**Dr. Marcos López
Casillas**

PRSTRT - Puerto Rico
Public Health Trust



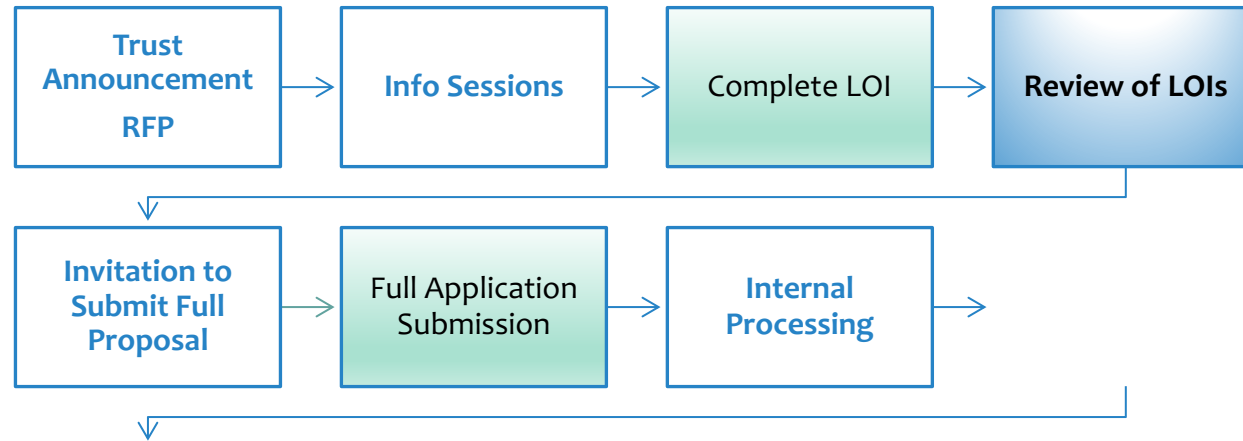
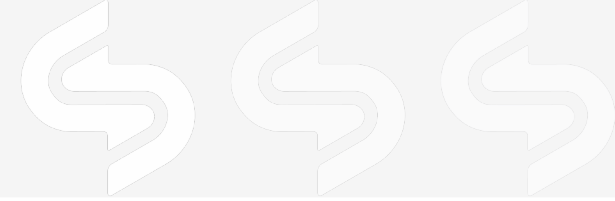
**Dr. Yajaira Sierra
Sastre**

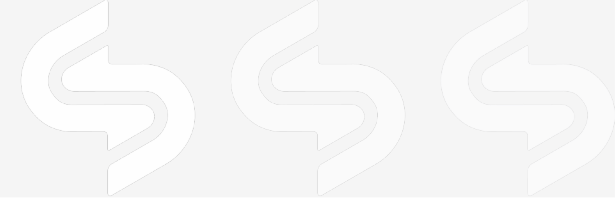
Blue Origin



**Dr. Carlos E. Crespo-
Hernández**

Case Western Reserve
University





ADVANCED RESEARCH GRANTS PROGRAM

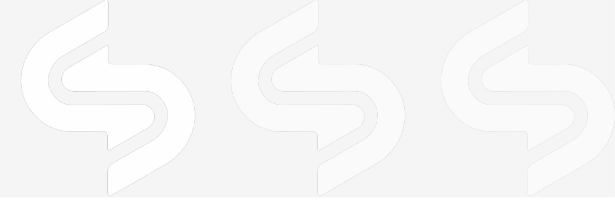
Up to \$150K

- Basic/Translational Research
- Technology/Product Development for Commercialization

Eligible Applicants

- Startups
- Established Companies
- Private and State Academic Institutions
- Other Non-Profit Research Institutions





53 Awards since inception

Last 2 Cohorts

ARG 2018-2019
ARG 2020-2021

= 28



49 Undergraduate Students



63 Graduate Students



97 Collaborators

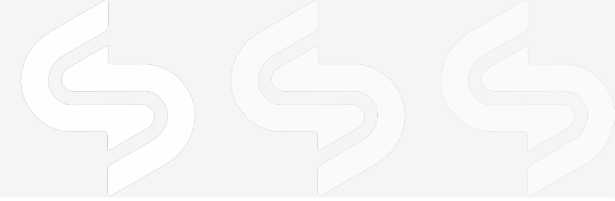


40 Peer-review Publications



133 Abstracts/Proceedings and/or Presentations

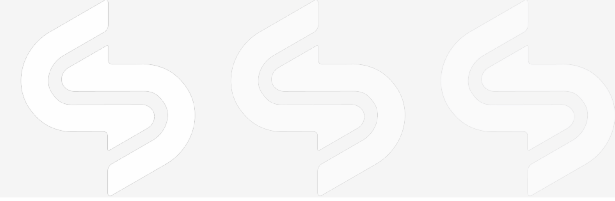




Award and Funding Information

- Awards will be made in the form of Cooperative Agreements.
- ARG does not allow multiple submission by the same applicant.
- The Cooperative Agreement will be issued for **twenty-four months**; however, this does not prevent the researcher from completing the project in twelve months if that was established in the proposal.
- Awardees will receive **\$75,000** at the time of execution of the agreement. The final disbursement of **\$75,000** will be payable after the grantee presents a mid-point progress report showing successful compliance with the project milestones as presented in the proposal.





BEACON



Powered by:  RESEARCH GRANTS PROGRAM  TECHNOLOGY TRANSFER OFFICE  Puerto Rico Science, Technology & Research Trust

BEACON is a centralized platform that collects, displays, analyzes and reports on all the academic activity that takes place on the island.

To be considered for the ARG, you must have a complete profile in **BEACON**.

- About
 - Overview
 - Research Interests
- Publications
- Professional Activities
- Teaching Activities
- Grants

Create a profile HERE → <https://prsciencetrust.org/beaconplatform/>






BEACON Rodolfo Romanach

Dr. Rodolfo Romanach Edit Profile CV and Reports

This profile is marked as **public** [Learn more](#) Switch to Edit Mode to change the privacy level.



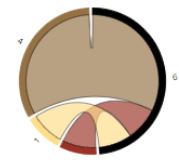
Dr. Rodolfo Romanach

- Primary group: University of Puerto Rico
- Position: Professor
- Department: Mayagüez Campus - Department of Chemistry
- ORCID: 0000-0001-7513-7261
- Institutional email: rodolfoj.romanach@upr.edu
- Additional email addresses
 - Work: rodolfoj.romanach@upr.edu
- Phone numbers
 - Mobile: 7873235106

Other profiles

- Google Scholar
- LinkedIn
- ResearchGate
- ORCID

Co-authors



- Carlos Cabrera (1)
- Vilmali López-Mejías (1)
- Torsten Stelzer (4)

Links

[View all links](#)

Find a colleague

About

Overview

Dr. Romañach is Professor of Chemistry at the University of Puerto Rico at Mayagüez, and Site Leader for the Engineering Research Center on Structured Organic Particulate Systems (<https://www.c-sops.org/>). He worked in the pharmaceutical industry for over 12 years before joining the Chemistry Department in 1999. His research is focused on developing near infrared spectroscopic methods to achieve real time quality control .


Dr. Romañach is committed to training the future generation of pharmaceutical scientists and has created Pharmaceutical Analytical Chemistry and Chemometrics courses at his university. His graduate students developed the PAT methods for the continuous manufacture of Prezista in collaboration with Rutgers and the Center for Structured Organic Particulate Systems (C-SOPS). The successful Prezista project also included short courses for Janssen personnel offered by his group as part of the PAT Certification program organized by IBS Caribe.

He has participated in the organizing committee of the IFPAC Summer Summit on PAT and Quality by Design for over 15 years.

Research interests

← back to my search

ABOUT RESEARCH OUTPUTS RESEARCH PROFESSIONAL TEACHING



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Mayagüez

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Mayaguez, 00681, Puerto Rico

Media

Google Scholar

LinkedIn


BIO

Dr. Romañach is Professor of Chemistry at the University of Puerto Rico at Mayagüez, and Site Leader for the Engineering Research Center on Structured Organic Particulate Systems (<https://www.c-sops.org/>). He worked in the pharmaceutical industry for over 12 years before joining the Chemistry Department in 1999. His research is focused on developing near infrared spectroscopic methods to achieve real time quality control .

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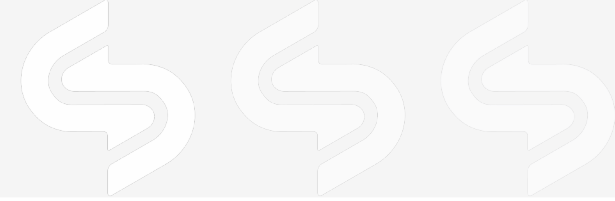
MEDIA [EXPLORE MEDIA](#)



ACADEMIC POSITIONS

- Professor**
University of Puerto Rico at Mayagüez, Chemistry, Mayagüez, Puerto Rico • 2004 - present
- Associate Professor or Chemistry**
University of Puerto Rico at Mayaguez, Chemistry, Mayaguez, Puerto Rico • 1999 - 2004





Evaluation Criteria



Approach & Technical Merit



Environment & Collaboration



Innovation



Budget



Significance

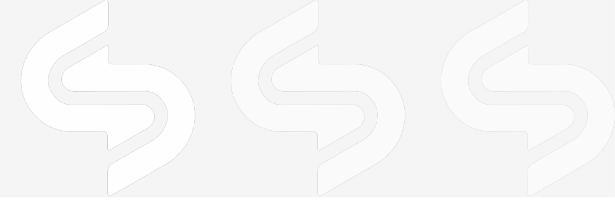


Viability of the Commercialization Plan



Investigator(s)

Scoring - The Trust utilizes a 9-point rating scale (1 = exceptional; 9 = poor), similar to the NIH's rating scale.



Appendix Material



Key Personnel Curriculum Vitae - 4 pages maximum per person, NIH, NSF or BEACON bio-sketch format encouraged



Support Letters - Must include a letter of institutional commitment from authorized personnel that acknowledges support for the application, describes any institutional support

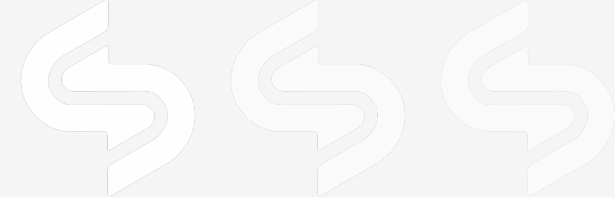


Figures - Include only relevant figures mentioned in the text.



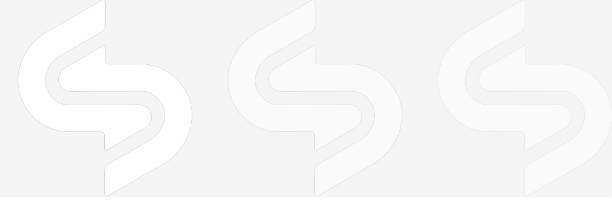
Bibliography





Important Dates





LINKS - Guidelines and Application

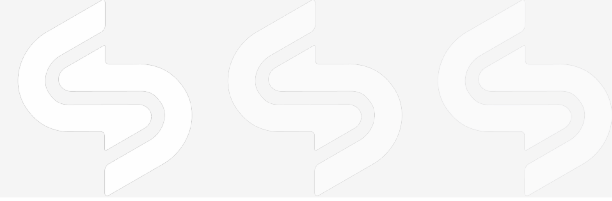


Guidelines -- <https://prsciencetrust.org/advanced/>



Application -- <https://webportalapp.com/sp/advanceresearchgrant-2023>





For questions and more information:



<https://prsciencetrust.org/research-grants-program/>



grants@prsciencetrust.org





Andreica Maldonado
Grants Program Director



Grace Rendón
Grants Program Specialist



RESEARCH GRANTS
PROGRAM
FUNDS TO GROW

thank you!