

Science Day Committee

Coordinators

Prof. Carmen Inda García
Prof. Yoel Rodríguez

Chairperson

Prof. Francisco Fernández

Committee Members

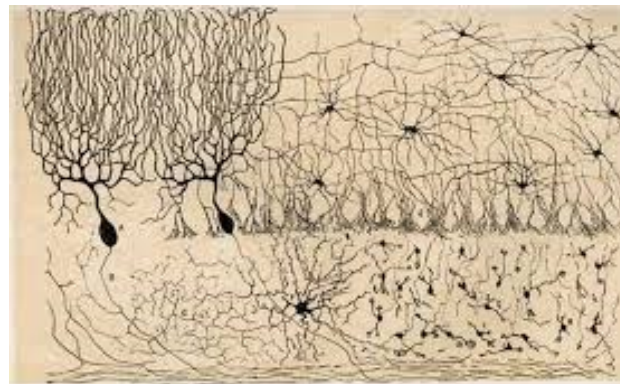
Prof. Julie Trachmann
Prof. Amanda Bernal-Carlo
Prof. Vyacheslav Dushenko
Prof. John Gillen
Prof. Flor Henderson
Prof. Damaris-Lois Yamoah Lang
Prof. Zvi Ostrin
Prof. Vladimir I. Ovtcharenko
Prof. Olga Steinberg Neifach
Prof. Nelson Nuñez-Rodríguez
Prof. Allison Franzese
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Prof. Chanh Phan
Prof. Anna Manukyan
Prof. Anna Ivanova
Prof. Mohammad Soheli
Prof. Soheli Chowdhury
Prof. Kathleen Delgado
Prof. Debashish Roy
Ms. Ewa Dziobak-Gonczowski
Ms. Sharmila Shakya
Mr. James Luhan
Ms. Dora Villa-González
Ms. Dane Guerrero
Ms. Melody Echavarría
Ms. Karin Contreras
Ms. Escarle Beato



About the Speaker



Dr. Virginia García-Marin works as a Research Scientist at New York University's Center for Neural Science in Dr. Michael J. Hawken's laboratory. The main goal of her research is to understand the cortical circuits in animal models and humans. Her work started by studying the history of Neuroscience in the Cajal Museum where she received her PhD from the Complutense University of Madrid. Afterwards, she learned a large number of imaging techniques including electron microscopy in Dr. Javier De-Felipe's group at Cajal Institute in Madrid that she later applied to study the brain alterations in Alzheimer's disease in human brains and transgenic mice models. At present, she is interested in studying visual pathways in human and macaque models using large-scale electron microscopy images combined with three-dimensional reconstructions. She has written more than 20 scientific publications and has received more than 500 citations.

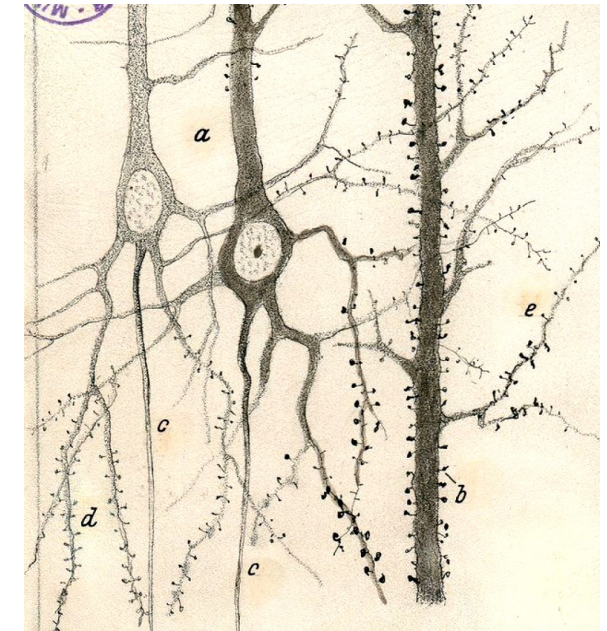


Cover and Back Pictures - Santiago Ramón y Cajal
Drawings from Cajal Institute, Madrid



SCIENCE DAY 2018

Science of the Brain From Molecules to Cognition



Presented by the
Natural Sciences
Department

Nov 13 - 15, 2018

Science Day Activities

Tuesday, November 13th

Opening Ceremony

Hostos Café

11:00AM - 11:15AM

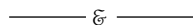
Remarks

Vice President Esther Rodríguez-Chardavoyne
Assistant Dean Félix Cardona
Chairperson Francisco Fernández

11:15AM - 12:15PM

Keynote Speaker

Dr. Virginia García-Marín
"Cajal - The Man Who Spent His Life Behind A Microscope"



8:00AM - 9:00AM | A-522

Class Discussion - *"Molecular Control Mechanisms in Striated Muscle Contraction"* | BIO230

Prof. Dushenkov

9:30AM - 10:45AM & 2:00PM - 3:15PM | Bridge

Community Building/Food Security | FS120 and FS220
"Walking Tour to the Farmers' Market"

Prof. Delgado

9:30AM - 10:45AM | A-425

Portfolio Presentations | CHE105

Prof. Shakya

11:00AM - 1:00PM | A-534

Student Presentations - *"Current Environmental Issues"* | CHE220

Prof. Fernández

12:30PM - 3:30PM

Hostos Café

Games for Science

Prof. Biao, Prof. Ivanova and Prof. Rodríguez

12:30PM - 3:30PM

JFK Room

Science Exhibit

"Listening to Neurons and Molecules"

Structural Biophysics | Artificial Intelligence

Microscopic Neuroanatomy | Electrophysiology Experiments

Prof. Inda García, Prof. Rodríguez, Ms. Villa-González,

Dr. Díaz Mataix and STEM Students

Science Day Activities

2:00PM - 2:30PM | A-513

Student Presentations - *"Nanoscience: A New Frontier of Science"* | CHE220
Prof. Sohel

2:30PM - 3:00PM | A-430

Student Presentations - *"Recent Research on Health Issues"* | BIO240
Prof. Gillen

2:00PM - 4:00PM

C-391

Hostos STEM Student Research Presentation
Engineering Students Internships Research Experience
CSTEP | CRSP | BMI

Prof. Lang, Prof. Koffi, Prof. Dorcely, Prof. Inda García and Ms. Jugmohan

5:00PM - 7:00PM

C-391

"Women in Science - Navigating Career Challenges"

Prof. Chowdhury, Prof. Delgado, Dr. Joshi, Dr. Serrano and Prof. Inda García (Moderator)

5:30PM - 7:00PM | A-511

Student Presentations - *"Biodiversity of Arachnids, and other Invertebrates and Fungi"* | BIO120/121

Prof. Ovtcharenko

Wednesday, November 14th

10:00AM - 12:00PM | A-Atrium

Food Studies Program | Poster Presentations | BIO130/131
"Aeroponic Farming at Hostos Community College"

Prof. Henderson and Ms. Contreras

10:30AM - 12:30PM | Bridge

Poster Presentations - *"How Multiple Sclerosis Affects Brain Cells"* | BIO230
Prof. Chowdhury

11:00AM - 3:30PM | Bridge

Promoting Our Programs | Informational Tables
Natural Sciences Department

11:00AM - 12:30PM | Bridge

Poster Presentations - *"Noise Sensor Network for NY Met Area"* | PHY220
Prof. Jiang

11:00AM - 12:30PM | A-526

Student Presentations - *"Current Events in Science"* | BIO220
Prof. Bernal-Carlo

11:30PM - 12:00PM | A-527

Student Presentations - *"Recent Research on Health Issues"* | BIO230
Prof. Gillen

Science Day Activities

2:00PM - 2:30PM | A-535

Student Presentations - *"Advanced in Research on Dementia"* | BIO240
Prof. Ostrin

2:00PM - 3:00PM | A-534

Conversation with Advanced Science and Engineering Students
Engineering Program - Ms. Contreras and Prof. Rodríguez

3:00PM - 4:00PM | A-534

Science Contest - *"Peer Instructions in Action"* | PHY210
Prof. Rodríguez

5:30PM - 6:30PM | A-408

Class Discussion - *"The Microbiome and the Gut-Brain Axis"* | BIO310
Prof. Trachman

Thursday, November 15th

8:00AM - 5:00PM

<http://www.dushenkov.com/research.html>

Online Presentation - *"Research in Botanical Therapeutics"*
Prof. Dushenkov

9:40AM - 12:40AM | A-534

Organic Chemistry Challenge - *"Instant Interactive Synthesis"* | CHE310
Prof. Roy

9:30AM - 11:00AM | A-Atrium

Food Studies Program | Poster Presentations | BIO130/131
"Aeroponic Farming at Hostos Community College"
Prof. Henderson and Ms. Contreras

1:45PM - 3:30PM | 4:00PM - 5:00PM | FDR and JFK Rooms

The Seventh Hostos STEM Olympiad | NYS Math League Contest - Fall 2018
Hostos STEM Olympiad Committee | Prof. Doyle and the Math Department

12:30PM - 1:30PM | FDR

Student Presentations | BIO210
Prof. Inda García

5:30PM - 8:00PM | A-534

Student Presentations - *"Batteries and Their Future"* | CHE120
Prof. Fernández

Special Thanks To: CSTEP, BMI, Engineering and Food Studies Programs, Office of Academic Affairs, Hostos Conference Center, Office of Student Activities, Student Government Association, Physics, Robotics, Engineering Clubs, and STEM Students.

As part of SCIENCE DAY 2018 field trip to Brookhaven National Laboratory - A Passion for Discovery, Upton, NY, on November 30th, 2018 at 8AM - 6PM.

