

The Marlin Lab



2022 in Review

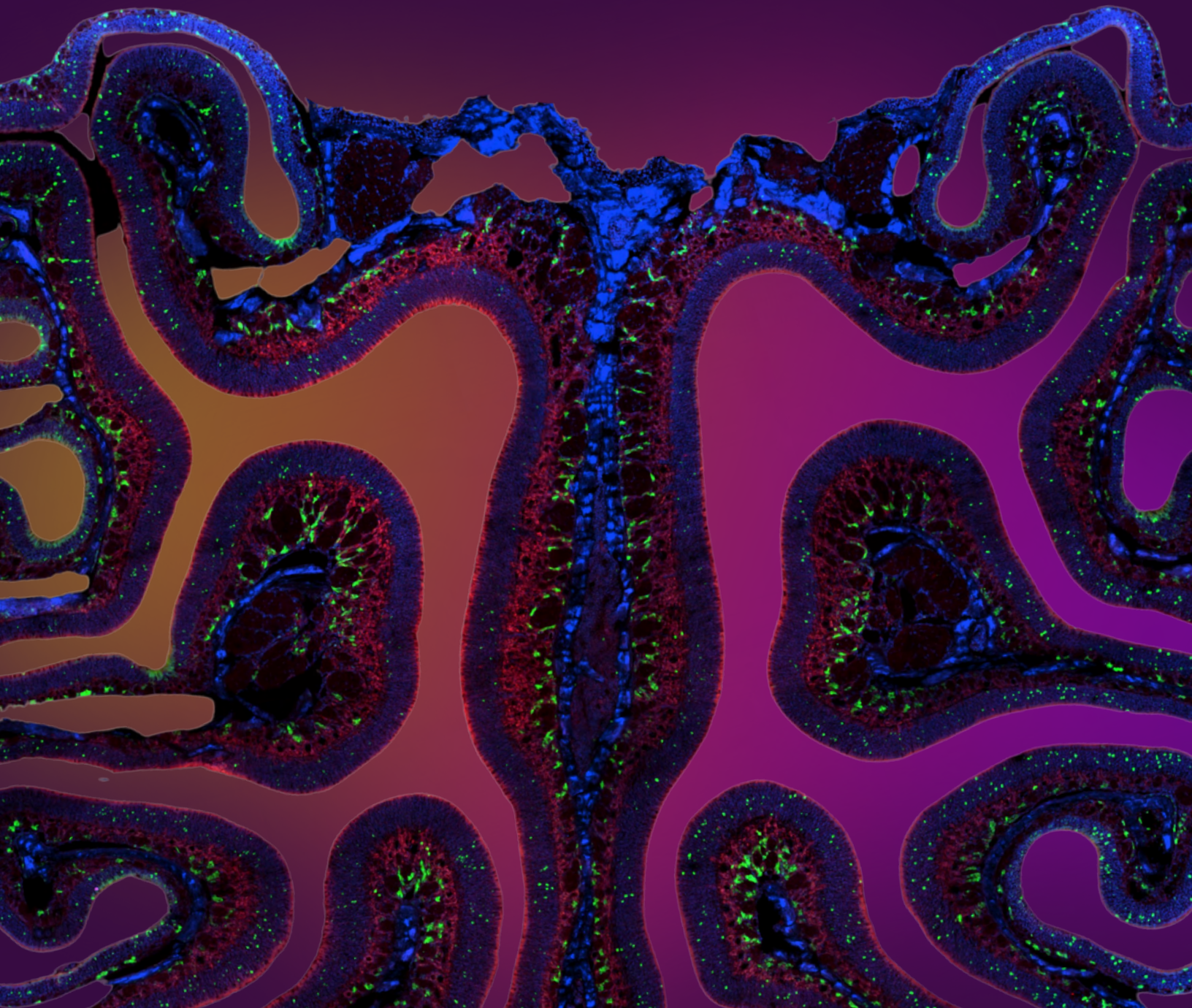


TABLE OF CONTENTS

- 01** Message from Bianca
- 02** The Marlin Lab Team
- 03** Sci Comm, Talks & Presentations
- 05** Awards & Funding
- 06** Community Engagement
- 07** Media Coverage
- 08** Team Fun
- 09** Major Milestones
- 10** Looking Forward to 2023
- 11** Closing Message

MESSAGE FROM BIANCA

The Marlin Lab examines the relationship between the innate and the learned. We explore how organisms unlock *innate* behavior at the appropriate times (e.g., parental instinct), and how *learned* information is transmitted to subsequent generations via transgenerational epigenetic inheritance.

It is a joy and a privilege to share the Marlin Lab's 2022 "Wrapped". We had a dynamic year, with lab members Alexis Kim translating her research to patient care, Yasmine Ayman starting her graduate career at Harvard, and Will Foster entering graduate school at Columbia. We also gained postdoctoral fellows, Dr. Thiago Arzua and Dr. Nour Mimouni!

The work that we do is motivated by the world that we live in. Our research program is fueled by the systemic inequity of resources, education, health, and safety in the United States and in our society. It is our mission and privilege to combat these influences and to lay the scientific groundwork for the future we are striving for.

What drives our
SCIENCE

THE MARLIN LAB 2022



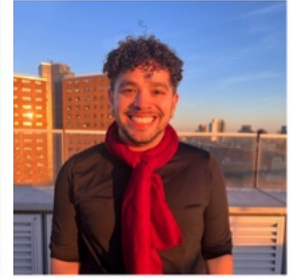
BIANCA JONES MARLIN, PHD



CLARA LIFF
Lab Manager



STEPHEN CADIEUX
Lab Coordinator



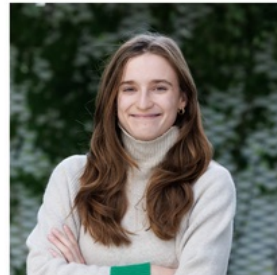
THIAGO ARZUA, PHD
Postdoctoral Scientist



NOUR MIMOUNI, PHD
Postdoctoral Scientist



BEKA STECKY
Graduate Student



VALENTINE ANDREU
Graduate Student



BRIANA MCRAE
Graduate Student



MIRI JONAS
Undergraduate Student

2022 LAB ALUMNI



TQ Eberhart
EE Just Summer Intern
Senior,
Morehouse College



WILL FOSTER
Research Technician
PhD Student,
Columbia University
Neurobiology and Behavior



YASMINE AYMAN
Research Technician
PhD Student,
Harvard University
Neuroscience



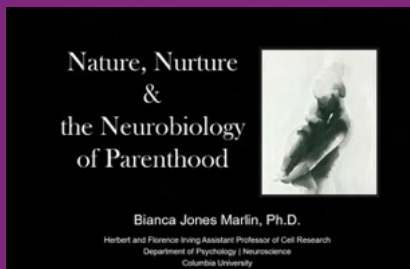
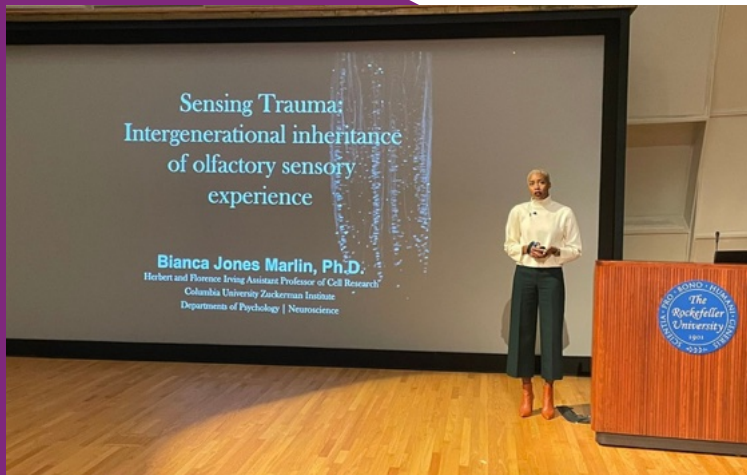
ALEXIS KIM
Research Technician
Patient Care Technician,
Beth Israel Deaconess
Medical Center



CHRISTINA JUSTE
Undergraduate Student
Graduated,
Barnard College
with Honors

Our
TEAM

We love SHARING SCIENCE



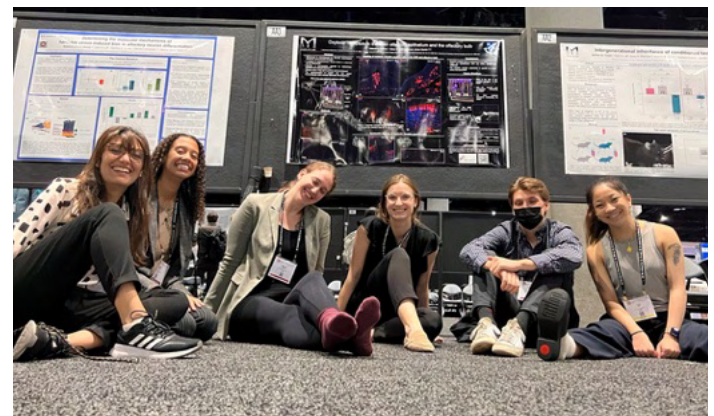
2022 Invited Talks

- Salk Institute Seminar Series
- Rockefeller University Lecture Series
- Borough of Manhattan Community College STEM Event Keynote
- Caltech Diverse Minds Seminar
- Optogenetics Gordon Research Conference
- FENS Forum
- Iowa Neuroscience Institute Seminar
- Parental Brain Meeting on the Neuroscience of Parenting
- University College London Department of Cell and Developmental Biology
- Columbia Journalism School Lecture
- Emotions Brain Forum
- Allen Institute Showcase
- IACUC Conference



Departmental Talks

- Parental Brain (PSYC GU4491) guest lectures
- Lab meetings



Society for Neuroscience

First Marlin Lab in-person conference!
Poster presentations on "Marlin Row"

Awards & Funding

BEKA
STECKY



VALENTINE
ANDREAU



THIAGO
ARZUA, PHD



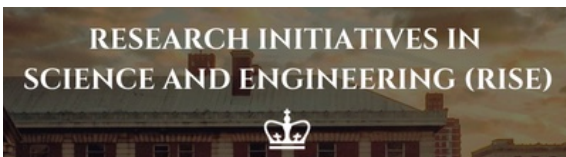
CHINWEIKE OKEGBE
MEMORIAL AWARD
(Columbia University
Biological Sciences Dept)

BOEHRINGER
INGELHEIM FONDS
(BIF) PHD FELLOWSHIP

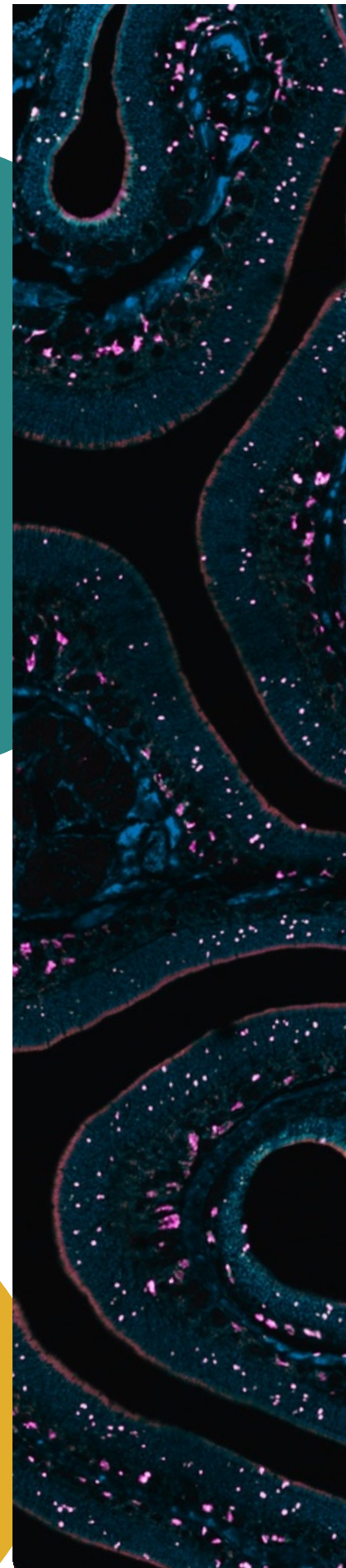
Forbes
30 UNDER 30



OFFICE OF THE PROVOST
Junior Faculty Grants



COLUMBIA | ZUCKERMAN INSTITUTE
Mortimer B. Zuckerman Mind Brain Behavior Institute

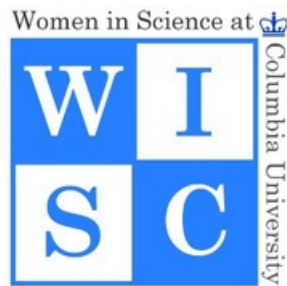


THE MARLIN LAB 2022

Community ENGAGEMENT

Marlin Lab core values

BLACK PEOPLE SPACE



**meals
for
unity**

COLUMBIA DOCTORAL PROGRAM
IN NEUROBIOLOGY AND BEHAVIOR



Columbia University
Neuroscience Outreach



**SOCIETY for
NEUROSCIENCE**

ZUCKERMAN INSTITUTE
TRAINEE ADVISORY
COMMITTEE



COLUMBIA
NEUROSCIENCE
SOCIETY



Zuckerman Institute
Gender Inclusion



SATURDAY SCIENCE



Black Undergraduate Mentorship Program



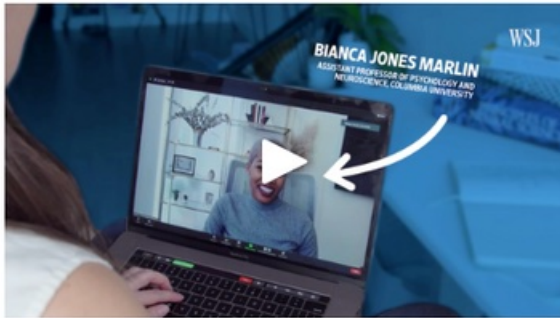
The New York
Academy of Sciences



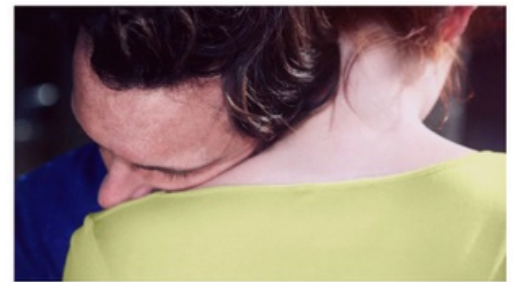
Best
Friends
Animal
Society

Media Coverage

**THE
WALL STREET
JOURNAL.**



Why Viral Death-Defying Videos Make You Wince (The Wall Street Journal, 2022)



Testosterone may promote 'cuddling', not just violence, animal study finds

Thiago Arzua, PhD

Story Collider, The Biological Origins of Intergenerational Trauma

Zuckerman Institute's Spotlight

Forbes 30 Under 30 in Science

Corpus Curiosum

Bianca Jones Marlin, PhD

Allen Institute Announces 2022 Next Generation Leaders

Medical News Today, Testosterone May Promote 'Cuddling', Not Just Violence, Animal Study Finds

The Wall Street Journal, Here's How Viral Death-Defying Videos Make You Wince

Clear + Vivid, Preparing Kids for Survival

THE MARLIN LAB 2022



Team
FUN

Major Milestones

2022 was a year of growth and maturation for our lab as we built our team and found our flow

- In lab we completed our first mouse fMRI scans, acquired our first RNAseq datasets, first whole-brain cleared images, and first images on spinning disc microscope
- Thiago and Nour joined as our first two postdoctoral scientists
- We celebrated Valentine and Briana passing their qualifying exams and advancing to PhD candidacy
- We created the Marlin Lab logo and launched a new website



THIAGO ARZUA, PHD
Postdoctoral Scientist



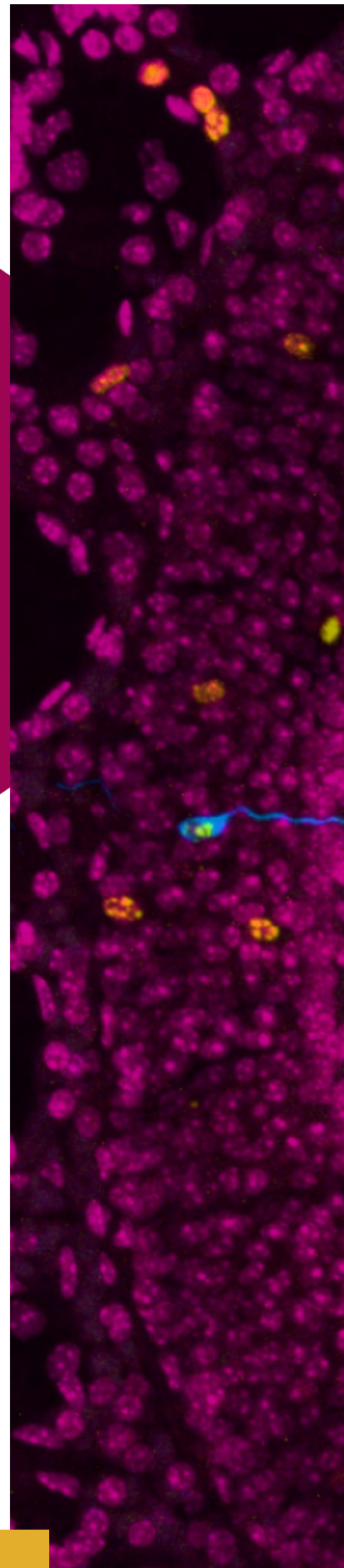
NOUR MIMOUNI, PHD
Postdoctoral Scientist



VALENTINE ANDREU
Graduate Student



BRIANA MCRAE
Graduate Student



Looking forward to **2023**

We polled the Marlin Lab on what they are most excited for in the coming year...

Getting new data

Refining project

Starting to write new paper

Advancing toward graduation

New people

Having projects evolve and come to fruition

Celebrating our lab's second birthday

Women's World Cup!



Lab 'level up'

CLOSING MESSAGE

As another year comes to an end, I find myself reflecting on the progress of the Marlin Lab. 2022 marked the end of our second year, and I am proud to say that we have gained significant momentum in all areas of our research program.

The year included major accomplishments and milestones, which we are proud to share in this report. For example, being awarded both laboratory and individual funding, which will empower us to expand the scope and reach of our work. This support will be crucial in helping us to push the boundaries of what we thought was possible and establish new lines of inquiry.

We have also made progress in preparing several manuscripts for publication. These papers - the first from the Marlin Lab - will lay foundational elements for ongoing work and will make contributions to our understanding of the parental experience and how it impacts future generations.

Overall, this year has been an incredibly rewarding and productive one for our lab. I applaud the team for their hard work, passion for science, and ongoing dedication. I am excited to see what the future holds for the Marlin Lab - in 2023 and beyond!

Best,
Bianca Jones Marlin, PhD

