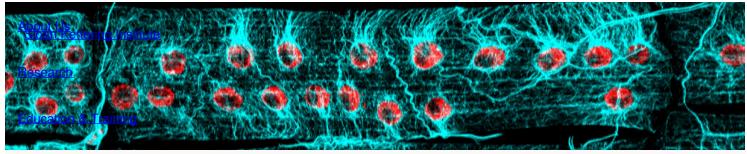
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DEVELOPMENTAL BIOLOGY PROGRAM

The Mary Baylies Lab

Developmental Biology Program

Research

The Mary Baylies Lab



Mary Baylies, PhD

Developmental biologist Mary Baylies studies the mechanisms that form and maintain muscle both during normal development and in disease.

View Lab Overview



Research Projects

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Featured News

IN THE LAB



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Scientists Home In On "Equation" for Muscle Cell Size

A new study in flies reveals a previously unknown type of cooperation at work in muscle cells.



At Work: Developmental Biologist Mary Baylies

Learn about Mary Baylies, a developmental biologist studying muscle biology at the Sloan Kettering Institute.



Student Lecture Highlights Major Trends in Modern Cancer Research

More than 500 high school students and their teachers filled the Rockefeller Research Laboratories to learn about recent discoveries.

Publications Highlights

Balakrishnan M,Yu SF, Chin S, Soffar DB, Windner S, Goode B, Baylies MK (2020). Cofilin loss in *Drosophila* contributes to muscle weakness through defective sarcomerogenesis during muscle growth. *Cell Reports*. 32(3): 107893. PMCID: PMC7479987.

Windner SE, Manhart A, Brown A, Mogilner A, Baylies MK. (2019.) Nuclear Scaling Is Coordinated among Individual Nuclei in Multinucleated Muscle Fibers. *Dev Cell.* Apr 8;49(1):48-62.e3. Featured as a cover image and in a Preview.

View All Publications

People

The Mary Baylies Lab 4/9



Research Technician





Graduate Student



Meg Distini Therandë Jashari

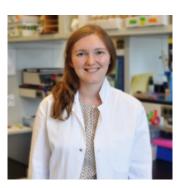
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Ruth Silimon

Graduate Student



Nicole J. Torres-Santiago MSK Bridge Program Scholar



Victoria von
Saucken
Graduate Student



Stefanie Windner
Research Fellow

Lab Alumni

+

Lab Affiliations

+

Achievements

Identified that global, regional, and local inputs contribute to nuclear size regulation in multinucleated skeletal muscle fibers.

Demonstrated that properly placed nuclei are critical for healthy muscle function.

Discovered that microtubules are critical for the movement and positioning of nuclei in the multinucleated skeletal muscle cell.

Developed Drosophila models of muscle wasting in cancer cachexia and aging.

Identified how actin filament dysregulation contributes to skeletal muscle dysfunction in models of nemaline myopathy.

Read more

+

Lab News & Events

UPCOMING EVENT

Human Myogenesis in Development and Disease

The Mary Baylies Lab

Thursday, September 26, 2024 - 2:00 PM to 3:00 PM

Memorial Sloan Kettering Cancer Center Rockefeller Research Laboratories 430 East 67th Street

RRL-120 (Auditorium)

New York, NY 10065

Get in Touch

212-639-5888 Office Phone

212-639-5953 Lab Phone

646-422-2355 Lab Fax

X_@BayliesLab

Lab Resources

+

Disclosures

Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

MSK requires doctors and faculty members to report ("disclose") the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public.

Mary Baylies discloses the following relationships and financial interests:

French National Research Agency

Professional Services and Activities (Uncompensated)

Howard Hughes Medical Institute

Professional Services and Activities

The information published here is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are

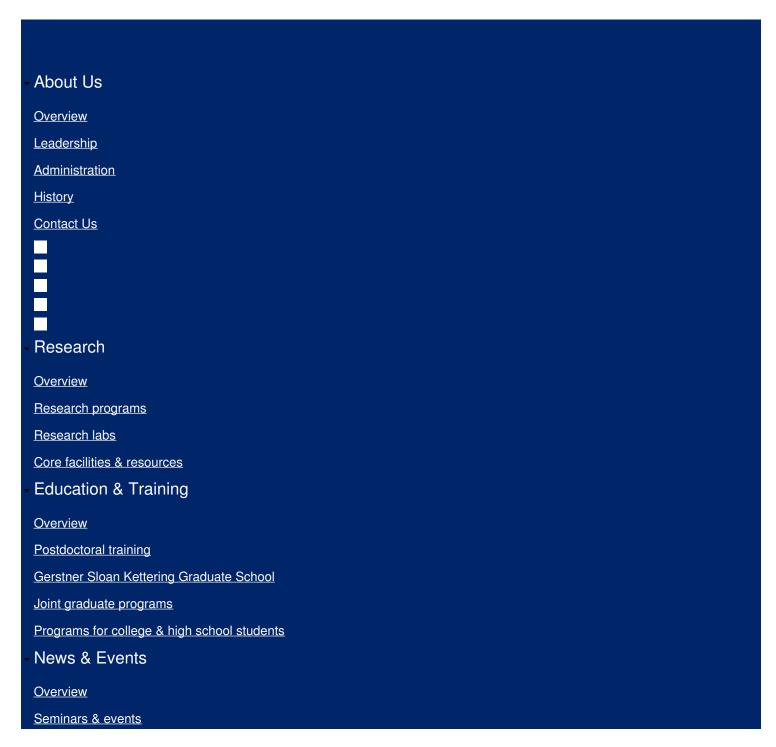
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This page and data include information for a specific MSK annual disclosure period (January 1, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

Learn more about MSK's COI policies here. For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at ecoi@mskcc.org.

View all disclosures





The Mary Baylies Lab 8/9 Open Positions

Overview

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