

CONFERENCE ON THE PROGRESS OF

# Down Syndrome Research

March 19, 2020

**DR. MARTIN SPATZ  
CONFERENCE CENTER**

NYU Winthrop Hospital, Mineola, NY

Jointly Provided by  
NYU Winthrop Hospital  
and Alexander's Angels, Inc.



# Down Syndrome Research

The Up of Down: An Insight into the World of Down Syndrome is a Joint Provider Conference with Alexander's Angels, Inc. and NYU Winthrop Hospital. The focus is to highlight the Down syndrome research progress and consists of speakers from a broad spectrum of specialties. Current findings will be presented by faculty from prestigious universities with affiliated hospitals on their campus.

## LEARNING OBJECTIVES

At the end of this symposium, learners should be able to:

- Discuss the learning, memory and language abilities in individuals with Down syndrome
- Explain models that are used to better understand brain development and early-onset Alzheimer's diseases in Down syndrome
- Explore answers to Skeletal deficits in individuals with Down syndrome
- Understanding about how pathophysiology and management of endocrine disorders can improve health and development as well as life span in individuals with Down syndrome
- Explore how a third copy of chromosome 21 causes a different disease spectrum in people with Down syndrome
- Describe how aspects of Down syndrome are reflected in stem-cell derived neurons trisomic for chromosome 21.
- Focus on attenuated response to SHH growth factor in trisomic cells and tissues

## TARGET AUDIENCE

All healthcare professionals & the community.

## COMPETENCIES

- Medical knowledge

## ACCME ACCREDITATION

This activity has been planned and implemented in accordance with the

accreditation requirements and policies of the Accreditation Council for Continuing Education (ACCME) through the joint providership of NYU Winthrop Hospital and Alexander's Angels. NYU Winthrop Hospital is accredited by the ACCME to provide continuing education for physicians.

## AMA CREDIT DESIGNATION

NYU Winthrop Hospital designates this live activity for a maximum of 2.50 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## NURSING ACCREDITATION

NYU Winthrop Hospital is an Approved Provider of continuing nursing education by the Northeast Multistate Division, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation through October 4, 2020. 2.50 contact hours will be awarded. Provider # NY009-2020

## FACULTY DISCLOSURE

It is the policy of NYU Winthrop Hospital to adhere to ACCME, NEMSD and ANCC accreditation requirements, policies and Standards for Commercial Support in order to ensure content validity, fair balance, independence, objectivity and scientific rigor in all its sponsored programs. All faculty, planners and authors of educational content, who participate in sponsored programs, must disclose to the audience any potential, apparent or real conflicts of interest related to their contribution to the activity, as well as any discussions of off-label or investigational uses of any commercial products or devices not yet approved in the United States. All faculty disclosures will be made at the time of the activity.

# Agenda

1:30 pm

**Welcome & Introductions**

Lori Benzoni, MPH

Esther Gomez-Nieto, MS

- Opening Remarks by Lori Benzoni Program and Event Specialist from NYU Winthrop Hospital for the Department of Pediatrics and by Esther Gomez-Nieto President of Alexander's Angels, Inc.

1:40

**KEYNOTE ADDRESS**

**Endocrine Manifestations of Down Syndrome**

Moris Angulo, MD

2:30

**SESSION I:**

**Modeling Down Syndrome Using Human Induced Pluripotent Stem Cells**

Peng Jiang, PhD

**Cognition in People with Down Syndrome**

Yingying Yang, PhD

**Development-Gene-Trait Relationship in Down Syndrome:**

**Finding Answers to Skeletal and Other Trisomy 21 Associated Traits**

Randall Roper, PhD

3:15

**Coffee and Snack Break**

3:30 pm

**SESSION II:**

**Understanding the Role of Immune Dysregulation in**

**Down Syndrome-Associated Conditions Using Multi-Omics Profiling**

Kelly Sullivan, PhD

**Silencing a Single Copy of Chromosome 21 in Down Syndrome Stem Cells:  
New Challenges and Approaches**

Stefan Pinter, PhD

**Basis for Treatment of Down Syndrome Cognitive Phenotypes**

Roger H. Reeves, PhD

4:15

**Adjourn**

# Faculty

## ACTIVITY DIRECTOR

### **Moris Angulo, MD\***

Director, Division of Human Genetics  
Associate Director, Pediatric Endocrinology  
NYU Winthrop Hospital  
Mineola, NY

## ACADEMIC COORDINATOR

### **Lori Benzoni, MPH\***

Program and Event Specialist  
Department of Pediatrics  
NYU Winthrop Hospital  
Mineola, NY

## GUEST SPEAKERS

### **Peng Jiang, PhD**

Assistant Professor  
Department of Cell Biology and Neuroscience  
Rutgers, The State University of New Jersey  
Piscataway, NJ

### **Stefan Pinter, PhD**

Assistant Professor  
Genetics and Genome Sciences  
Institute for Systems Genomics  
Assistant Director  
Graduate Program in Genetics and  
Developmental Biology  
UConn Health  
Farmington, CT

### **Roger H. Reeves, PhD**

Professor of Genetic Medicine and Physiology  
McKusick-Nathans Institute for Genetic Medicine  
Faculty Director, Transgenic Core Facility  
Johns Hopkins University School of Medicine  
Baltimore, MD

### **Randall Roper, PhD**

Associate Professor  
Department of Biology  
Director, IUPUI Graduate Mentoring Center  
Indiana University-Purdue University Indianapolis  
Indianapolis, IN

### **Kelly Sullivan, PhD**

Assistant Professor  
Boettcher Investigator  
Linda Crnic Institute for Down Syndrome  
Department of Pediatrics,  
Section of Developmental Biology  
University of Colorado Anschutz Medical Campus  
Aurora, CO

### **Yingying Yang, PhD**

Assistant Professor of Psychology  
Montclair University  
Montclair, NJ

## PLANNING COMMITTEE

### **Esther Gomez-Nieto, MS**

President  
Alexander's Angels, Inc.  
Jericho, NY

### **Colleen Farley-Cornell, MS, RD, CDN, CDE**

Nutritionist/Registered Dietitian  
Certified Diabetes Educator  
NYU Winthrop Hospital  
Mineola, NY

### **Christine O'Brien, BS, RN**

Nurse Manager  
NYU Winthrop Hospital  
Mineola, NY

## SELF-ADVOCATES

### **Jamie Bernstein**

### **Kyle Erickson**

### **Katherine Giunta**

### **Richie Henn**

### **Matthew Hoffman**

### **Sean McGowan**

### **Brittany Schiavone**

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## REGISTRATION FEES

Registration is \$10 and includes educational materials, refreshments and CME-CE credit certificate.

## CONFIRMATION

All registrants will receive a confirmation via email.

## CANCELLATION

**Cancellation by NYU Winthrop Hospital:** It is the policy of NYU Winthrop Hospital that in the unlikely event we must cancel a scheduled activity, all registered learners are immediately notified via email, with full refund offered where applicable. Wherever possible, our registration page of the website will be updated to reflect the activity cancellation. If we cancel less than 48 hours in advance of scheduled start time, we will also telephone all registered learners regarding the cancellation and refund.

**Cancellation by Learner:** Requests for refund or transfer of registration must be received by email 72 hours prior to the course to [Keyana.Golds@nyulangone.org](mailto:Keyana.Golds@nyulangone.org). No refund or transfer of registration will be made thereafter. It is the policy of NYU Winthrop Hospital that if you, the learner, must cancel or withdraw before an activity for which you have previously registered, a handling fee of \$5 will be deducted for cancellation.

## COMPLAINT RESOLUTION POLICY

It is the policy of NYU Winthrop Hospital that complaints received about continuing education or related matters are investigated and resolved within 72 hours (if received during business hours) or within 7 days (if received outside of business hours).

## LOCATION

Dr. Martin Spatz Conference Center  
259 First Street, Basement Main Hospital  
Mineola, NY 11501

## TRAIN INFORMATION

Mineola is 34 minutes by train from New York's Penn Station and 19 minutes by train from JFK airport at Jamaica, New York. Most eastbound and westbound branches of the Long Island Railroad (LIRR) stop in Mineola. Please check the LIRR's TrainTime mobile app for daily schedules. If arriving in Mineola on an eastbound train, cross the footbridge to the north side of the platform. Walk one block north, turn left and the hospital will be in front of you.

## PARKING

Parking is available at any of these convenient campus lots:

- Mineola Intermodal Center at 65 3rd Ave. (Payment required).
- NYU Winthrop Campus Visitor's Parking Garage (access via Emergency entrance at 2nd & 3rd Ave. Payment required).
- 120 Mineola Blvd. Ramp.

**NOTE: Parking will not be validated in any NYU Winthrop campus lots.**

## ACCOMMODATIONS

We do not have a discounted room block for this meeting. However, if you require a hotel, we suggest that you contact the Garden City Hotel by calling 1-800-547-0400.

## SPECIAL NEEDS

The Dr. Martin Spatz Conference Center is accessible to individuals with disabilities or special needs. Participants with special needs should contact the Office of CME at 516-663-8459.

If you experience technical problems with the online system, wish to register a group, or require other special arrangements; please contact Keyana Golds at 516-663-9685 or email at [Keyana.Golds@nyulangone.org](mailto:Keyana.Golds@nyulangone.org) for assistance.