



ISTITUTO GIANNINA GASLINI
ISTITUTO PEDIATRICO
DI RICOVERO E CURA
A CARATTERE SCIENTIFICO



Università
di Genova



RESPONSABILI SCIENTIFICI

Mohamad Maghnie
Pasquale Striano

Marta Bassi
Roberta Bertola
Claudio Bruno
Alessandro Consolaro
Nataschia Di Iorgi
Laura Fornoni
Clara Malattia
Giuseppa Patti
Stefano Volpi
Federica Trucco

SEGRETERIA SCIENTIFICA

Marta Bassi
Paola Casavecchia

ISCRIZIONE

Iscrizione gratuita
Max 30 partecipanti

La domanda di iscrizione dovrà essere inviata per mail a Paola Casavecchia (paola.casavecchia@unige.it) cc martabassi@gaslini.org e dovrà contenere nome, cognome e anno di corso e in allegato un CV.

Scadenza invio domanda: 21.04.2024

Comunicazione dei candidati ammessi :
15.05.2024

Accesso alla stanza remota di MS
Teams al seguente [link](#)

SUMMER SCHOOL 2024

FACULTY

Marta Bassi
Claudio Bruno
Andrea Calandrino
Fabio Candotti
Davide Cangelosi
Giacomo Cavalca
Isabella Ceccherini
Mara Coduri
Nicola Disma
Giovanni Fiorito
Piero Gianiorio
Michele Iacomino
Francesca Lugani
Clara Malattia
Serena Palmeri
Chiara Panicucci
Riccardo Papa
Andrea Petretto
Angela Pistorio
Francesca Rosamilia
Marta Rusmini
Marcello Scala
Francesco Tedesco
Federica Trucco
Paolo Uva
Greta Volpedo
Stefano Volpi
Federico Zara



Summer School

Pediatric Research: Quo Vadis?

18-21 JUNE 2024

IRCCS Istituto
Giannina Gaslini

Centro Formazione
Villa Quartara

Università degli Studi di
Genova - Scuola di
specialità in Pediatria



Objectives of the School

This face-to-face course consists of four full days of classes comprising a combination of lectures and workshops.

Conceived specifically for paediatric residents, this exciting programme offers a unique opportunity to gain an in-depth understanding of the complexities of paediatric research.

Under the mentorship of experts in the field, the Summer School will give students an overview of how to approach the world of paediatric research, providing the tools to write a research project, a scientific article and a research grant, stimulating dynamic discussion and inspiring young pediatric residents to enter the exciting world of research.

Day 1 – 18 June 2024

Research Methods in Health Epidemiology

(Angela Pistorio, Clara Malattia)

Aula Magna IRCCS Istituto Giannina Gaslini

h 8.30 Welcome and Presentation of the Summer School
(Mohamad Maghnie, Pasquale Striano)

h 9.00 Planning a research project
How to design a study: writing the study protocol (Angela Pistorio)

h 9.30 Types of Study design
Descriptive versus analytic studies (Angela Pistorio)

h 10.45 Coffee Break

h 11.00 Types of Study design
Observational versus experimental studies (Angela Pistorio)

Basic concepts on the Randomized Clinical Trial (RCT) (Angela Pistorio)

h 13.00 Lunch

h 14.00 Reporting guidelines for writing papers
Equator Network reporting guidelines (Angela Pistorio)

h 14.30 Basic concepts on sample size determination (Angela Pistorio)

h 15.30 Basic concepts on the choice of bivariate statistical tests (Angela Pistorio)

h 16.30 Practical Session
Reading statistical method from published literature (Angela Pistorio and Clara Malattia)

Day 2 – 19 June 2024

Advancing Healthcare Excellence: research and quality in Medical Simulation for enhanced clinical outcomes

(Marta Bassi, Andrea Calandrino, Piero Gianiorio)

Aula E Centro Formazione Villa Quartara

h 9.00 The Role of simulation in Clinical Practice and Research
The role of Simulation in Training and Clinical Practice with Definitions (Andrea Calandrino)

Methodologies and Technologies for Training and Performance Assessment (Piero Gianiorio)

h 10.45 Coffee Break

h 11.00 The Role of simulation in Clinical Practice and Research
Simulation Research from Pedagogical and Technical Perspectives (Andrea Calandrino, Mara Coduri)

Simulation Research: How to Design an Experimental Study (Mara Coduri)

h 13.00 Lunch

h 14.00 Practical Session
Applications of Simulation in Pediatric and Neonatal Settings (Piero Gianiorio)

Building a Scenario from Design to Debriefing (Andrea Calandrino)

Practical Session: Mannequin-Based Simulation vs Virtual Reality Simulation (Mara Coduri)



Day 3 – 20 June 2024

From bedside to workbench and back again

(Claudio Bruno, Stefano Volpi)

Aula Magna IRCCS Istituto Giannina Gaslini

h 9.00 A pediatrician in research: a fish out of water?

Physician and researcher: burning the two sides of the candle (*Stefano Volpi*)

Hard and soft skills in research (*Claudio Bruno*)

Is basic science ‘for life’?

How pediatric research can help your practice grow. Gaslini’s Pediatricians and General Pediatricians share their research experience, past and presence (*Claudio Bruno, Stefano Volpi, Chiara Panicucci, Federica Trucco, Nicola Disma, Marcello Scala, Francesca Lugani*)

h 10.45 Coffee Break

h 11.00 Laboratory science application in pediatric medicine

Emerging technologies in paediatric laboratory medicine (*Isabella Ceccherini*)

Lost in (medical) translation (*Stefano Volpi*)

The resident at the benchside (*Serena Palmeri*)

h 13.00 Lunch

h 14.00 Successful projects

Identification of a new disease starting from a clinical observation (*Federico Zara*)

Fishing for genes: how to describe a new disease using a zebrafish (*Stefano Volpi*)

Publish or perish

How to survive the jungle: literature update and review (*Riccardo Papa*)

How to read a paper (*Federica Trucco*)

How to write a paper and publish in competitive journals (*Nicola Disma*)

How to write a grant (*Federico Zara*)

Meeting with Pediatric Scientists (Francesco Tedesco, Fabio Candotti)

h 20.00 Dinner – Gaslini Beach

Day 4 – 21 June 2024

From data to insights

(Davide Cangelosi, Paolo Uva)

Aula Magna IRCCS Istituto Giannina Gaslini

h 9.00 Are you ready for Big Data?

A FAIRy tale: how to optimize the reuse of data (*Paolo Uva*)

How to design a scientific study? Which statistical test(s) should I apply? (*Giovanni Fiorito*)

How (not) to prepare your dataset for AI: receipt and beyond (*Davide Cangelosi*)

h 10.45 Coffee Break

h 11.00 A deep dive into genomics

A careful look at genomic data: what is hidden? Gene hunting in rare diseases (*Marta Rusmini*)

Machine learning approaches in genomics (*Giacomo Cavalca*)

Decoding Genetic Enigmas: Statistical ingredients to investigate Complex Diseases (*Francesca Rosamilia*)

h 13.00 Lunch

h 14.00 Approaching the phenotype

Epigenome-wide association studies: the epigenetic memory in development and disease (*Giovanni Fiorito*)

Clinical Proteomics: The Elephant in a room (*Andrea Petretto*)

The microbiome: our second genome (*Greta Volpedo*)

AI: to be or not to be (*Davide Cangelosi*)

Beyond the exome (*Michele Iacomino*)

h 17.00 Closing remarks