



UNIVERSITÀ DI PARMA

ACADEMIC YEAR **2020**  
**2021**

# II LEVEL MASTER IN PRECLINICAL AND CLINICAL RESEARCH

COORDINATOR

**Susanna Esposito**

*Full Professor*

Department of Medicine and Surgery  
University of Parma, Parma (Italy)



## PROFESSORS AND TEACHERS

### UNIPR

University of Parma, Parma

**Alberto Argentiero**

Research Fellow UNIPR

**Antonio D'Aloia**

Full Professor of Administrative Law

**Daniele Del Rio**

Associate Professor of Human Nutrition

**Rossana Cecchi**

Full Professor of Legal Medicine

**Susanna Esposito**

Full Professor of Pediatrics

**Leonardo Fogassi**

Full Professor of Physiology

**Lorella Franzoni**

Associate Professor of Pharmacology

**Matteo Goldoni**

Associate Professor of Medical Statistics

**Marcello Giuseppe Maggio**

Full Professor of Geriatrics

**Giovanni Roti**

Researcher in Hematology

**Francesca Scazzina**

Associate Professor of Human Nutrition

**Nicola Sverzellati**

Associate Professor of Radiology

**Marcello Tiseo**

Associate Professor of Oncology

### O.U. FORMAZIONE POST-LAUREAM

University of Parma, Parma

**Caterina Mantovani**

**Giovanna Corazza**

### O.U. DEPARTMENTAL ADMINISTRATION

University of Parma, Parma

**Giorgetta Leporati**

### PARMA HOSPITAL

**Alessandra Zanardi**

Hospital Pharmacy Director

**Caterina Caminiti**

OU Innovation and Research, Director

### EXTERNAL TEACHERS

**Stefania Ballarini**

Vifor Pharma, Geneva, Switzerland

**Maria Lisa Calzetti**

Associazione per l'Aiuto ai Giovani con Diabete (AGD) Parma, Parma

**Nella Capretti**

Associazione Noi per Loro, Parma

**Giovanni Checcucci Lisi**

Medical Director Sanofi, Rome

**Andrea Esposito**

Radiology Unit, IRCCS Policlinico Hospital, Milan

**Laura Fabbri**

Head of Neonatology Clinical Unit, Chiesi, Parma

**Stefano Lagravinese**

ClinOpsHub srls, Brindisi

**Cinzia Marano**

Medical Director, GSK Vaccines, Verona

**Luigi Notarangelo**

National Institute of Allergy and Infectious Diseases, NIH,  
Washington DC, USA

**Anna Odone**

Full Professor of General and Applied Hygiene,  
University of Pavia, Pavia

**Palmira Perri**

Lega Italiana Fibrosi Cistica (LIFC) Emilia, Parma

**Prisco Piscitelli**

Euro-Mediterranean Biomedical Scientific Institute,  
ISBEM, Brindisi

**Gian Marco Prandi**

Assoc. Dir. Medical Affairs Vaccines,  
MSD Italia, Roma

**Stefano Valente**

Medical Affairs Vaccines, Director MSD Italy,  
Roma

CALL FOR APPLICATIONS  
7<sup>TH</sup> SEPTEMBER 2020

CALL DEADLINE  
23<sup>TH</sup> OCTOBER 2020

# MODULE 1

ACADEMIC YEAR 2020-2021

## II LEVEL MASTER IN PRECLINICAL AND CLINIC RESEARCH

### DECEMBER

#### WEEK 1 ► DECEMBER 4<sup>th</sup>, 2020

S. Esposito

Wellcome to the course

S. Esposito

Introduce yourself

S. Esposito

Why bother with doing clinical research?

S. Esposito

Short survey on your expectations from this course

L. Fogassi

From the animal model to the clinical practice

G. Roti

The phases of preclinical research

#### WEEK 2 ► DECEMBER 11<sup>th</sup>, 2020

L. Franzoni

Pharmacokinetics, pharmacogenetics and pharmacogenomics

#### WEEK 3 ► DECEMBER 18<sup>th</sup>, 2020

A. D'Aloia

Ethics of preclinical research

### JANUARY

#### WEEK 4 ► JANUARY 8<sup>th</sup>, 2021

G. Roti

Drug discovery in oncology

L. Fabbri

Drug design and development of new pharmaceutical formulations

#### WEEK 5 ► JANUARY 15<sup>th</sup>, 2021

P. Piscitelli

From genetics to epigenetics

#### WEEK 6 ► JANUARY 22<sup>nd</sup>, 2021

A. Zanardi

Equivalent drugs and biosimilars

### FEBRUARY

#### WEEK 7 ► FEBRUARY 5<sup>th</sup>, 2021

A. Argentiero

Methodology and phases of clinical research

M. Tiseo

Special focus on phase 1

#### WEEK 8 ► FEBRUARY 12<sup>th</sup>, 2021

S. Esposito

How to set up a non-profit clinical trial

M. Tiseo

The importance of networks in clinical research

#### WEEK 9 ► FEBRUARY 19<sup>th</sup>, 2021

S. Lagravinese

Good Clinical Practice

#### WEEK 10 ► FEBRUARY 26<sup>th</sup>, 2021

L. Fabbri

Monitoring in clinical trials

L. Fabbri

Collection, management and data quality

R. Cecchi

Informed consent and legislative criticalities in clinical research

# MODULE 2

ACADEMIC YEAR 2020-2021

## II LEVEL MASTER IN PRECLINICAL AND CLINIC RESEARCH

### MARCH

#### WEEK 11 ► MARCH 5<sup>th</sup>, 2020

S. Ballarini

Drug development for registration purposes and IMP management

#### WEEK 12 ► MARCH 12<sup>th</sup>, 2020

C. Caminiti

The Ethics Committees: role and function

#### WEEK 13 ► MARCH 19<sup>th</sup>, 2020

C. Caminiti

How to draw up a protocol and submit it to the Ethics Committee

#### WEEK 14 ► MARCH 26<sup>th</sup>, 2020

A. D'Aloia

Principles of bioethics in human studies

### APRIL

#### WEEK 15 ► APRIL 2<sup>nd</sup>, 2021

C. Caminiti

The role of professional figures and health structures

#### WEEK 16 ► APRIL 9<sup>th</sup>, 2021

G.M. Prandi

Investigator initiated study and company sponsored study: role of the CRO and of the pharmaceutical company in the management of adverse events

S. Valente

Development cycle of vaccines and other drugs: from medical needs to implementation of marketed product

#### WEEK 17 ► APRIL 16<sup>th</sup>, 2021

L.D. Notarangelo

Inborn errors of immunity: advances in treatment

G. Checcucci Lisi

Signal detection and management in pharmacovigilance: from theory to practice

#### WEEK 18 ► APRIL 23<sup>rd</sup>, 2021

A. Odone

Health Technology Assessment

D. Del Rio

Food and health: from laboratory research to the consumer

#### WEEK 19 ► APRIL 30<sup>th</sup>, 2021

C. Marano

Value of vaccination and communication against vaccine hesitancy

C. Marano

Therapeutic innovation and post-marketing surveillance

### MAY

#### WEEK 20 ► MAY 7<sup>th</sup>, 2021

S. Esposito

Artificial intelligence and telemedicine in pediatrics

#### WEEK 21 ► MAY 14<sup>th</sup>, 2021

F. Scazzina

Food, health and sustainable development

#### WEEK 22 ► MAY 21<sup>st</sup>, 2021

A. Esposito, N. Sverzellati

Application of artificial intelligence in radiology: comparison between Centers



# MODULE 2

ACADEMIC YEAR 2020-2021

## II LEVEL MASTER IN PRECLINICAL AND CLINIC RESEARCH

### OCTOBER

#### WEEK 23 ► OCTOBER 1<sup>st</sup>, 2020

L. Fabbri

Clinical trials in neonatology

#### WEEK 24 ► OCTOBER 8<sup>th</sup>, 2020

S. Esposito

Child is not a small adult

#### WEEK 25 ► OCTOBER 15<sup>th</sup>, 2020

M. Maggio

Clinical trials in the elderly

G. Checcucci Lisi

Vaccine development in high risk patients

M.L. Calzetti, N. Capretti, P. Perri

The role of patients and their associations

#### WEEK 26 ► OCTOBER 22<sup>nd</sup>, 2020

M. Goldoni

Bibliographic research, systematic review and meta-analysis

M. Goldoni

Basics of biostatistics

S. Esposito

From the protocol to the publication of a scientific article

CERTIFICATION ISSUED: **Certificate**

PROPOSING STRUCTURE: **Department of Medicine and Surgery**

DURATION: **12 months**

TEACHING PROVISION: **E-learning**

COST: **2.000,00 euro**

COST FOR LISTENERS: **500,00 euro**

ATTENDANCE % REQUIRED: **75**

STAGE: **500 hours**

FURTHER INFORMATION:

[ctu.pediatriaparma@gmail.com](mailto:ctu.pediatriaparma@gmail.com)

#### ACCESS TITLES:

Master's degree in Biotechnology (LM-07/LM-08/LM-09), Biological Sciences (LM-06), Chemical Sciences (LM-54), Physics (LM-17), Sciences and Technologies Agricultural (LM-69), Computer Science (LM-18), Mathematics (LM-40), Engineering (LM-21/LM-22), Food Science and Technology (LM-70), Economics- Corporate (LM-77), Jurisprudence (LMG-01).

Holders of the following specialist degree classes can access the course: Medicine and Surgery (46/S), Veterinary Medicine (47/S), Pharmacy and industrial pharmacy (14/S), Agricultural Biotechnology (7/S), Industrial Biotechnology (8/S), Medical, Veterinary and Pharmaceutical Biotechnology (9/S), Industrial Biotechnology (8/S), Medical, Veterinary and Pharmaceutical Biotechnology (9/S) Biology (6/S), Human Nutrition Sciences (69/S), Chemical sciences (62/S), Physics (20/S), Agricultural sciences and technologies (77/S), Agri-food sciences and technologies (78/S), Computer science (23/S), Mathematics (45/S), Biomedical Engineering (26/S), Economics Sciences (64/S), Economics-Business Sciences (84/S), Law (22/S).

Degrees of the old system equivalent to those mentioned above.

Further qualifications may be assessed by the Executive Committee on the basis of scientific-cultural affinity with the subjects proposed in the Master, also taking into consideration the CV presented by the candidate; scrivendolo in grande, riportare  
Registration is available at the following link:

<https://www.unipr.it/bandi/didattica/ricerca-preclinica-e-clinica-20202021>

**DEADLINE FOR REGISTRATION: OCTOBER 23<sup>rd</sup>**



## EXECUTIVE COMMITTEE

Alberto Argentiero  
Caterina Caminiti  
Rossana Cecchi  
Antonio D'Aloia  
Susanna Esposito

### WITH INTERVENTIONS OF SPEAKERS FROM:

Bill & Melinda Gates Foundation, Seattle, WA, USA  
Centers for Disease Control and Prevention (CDC), Atlanta, GA, USA  
European Centre for Disease Prevention and Control (ECDC), Solna (Stockholm), Sweden  
European Medicines Agency (EMA), Amsterdam, The Netherlands  
Fondazione Penta  
ICON  
INCiPIT network  
IQVIA  
IRCCS Ospedale Pediatrico Bambino Gesù  
Istituto Superiore di Sanità  
Ministero della Salute  
Organizzazione Mondiale della Sanità, Ginevra, Svizzera  
Parexel  
PPD  
UNESCO