COURSE DESCRIPTION

Translational medicine is a discipline in biomedical research that aims to turn observations in the laboratory, clinic and community into interventions that improve the health of individuals and the public. The new era of personalized therapy and molecular medicine is also perfect example where the functional aspects of genomics, proteomics and bioinformatics can come together at the patient’s bedside. This introductory course will introduce attendees to key aspects of translational medicine in the field of oncology, hematology and infectious diseases and focus on the practical use of these three areas for the diagnosis, prevention and treatment of disease. Hands-on technical workshops will be used to illustrate and educate students, as well as touch on issues related to implementation of new platforms and assays and will encourage scientific inquiry through the analysis of "unknown" specimens.

COURSE SCIENTIFIC DIRECTORS

• Lance A. Litta, MD PhD (George Mason University)
  Contact (USA): litta@gmu.edu
• Alessandra Luchini, PhD (George Mason University)
  Contact (USA): aluchini@gmu.edu
• Raffaella Colombatti, MD, PhD (Azienda Ospedaliera di Padova)
  Contact (Italy): raffaella.colombatti@aopd.veneto.it

LOCAL ORGANIZING COMMITTEE

• Benedetta Accordini: benedetta.accordini@unipd.it
• Raffaella Colombatti: raffaella.colombatti@aopd.veneto.it

GENERAL INFORMATION

DATE & VENUE

January 13-17, 2020
George Mason University, Dipartimento della Salute della Donna e del Bambino-Azienda Ospedaliera Università di Padova
Istituto di Ricerca Pediatrica

CME (only for Italian participants)

3 CREDITS for the Pre-Course
12 CREDITS for the Course

REGISTRATION SHARES

13 gennaio 2020 – Pre Course Introduction (Az. Ospedaliera di Padova)
Registration fee for Pre Course
Medical Doctor € 50,00 (VAT included), Fellows, Residents, Graduate Students € 30,00 (VAT included)

14 – 17 gennaio 2020 – Course Introduction (Istituto di Ricerca Pediatrica)
Registration fee for Course
Medical Doctor € 180,00 (VAT included) + free participation at Pre Course), Fellows, Residents, Graduate Students € 120,00 (VAT included) + free participation at Pre Course)

The Pre-Course and Course “INTRODUCTION TO TRANSLATIONAL MEDICINE: FROM BASIC SCIENCE TO HEALTH CARE” has been accredited for CME - Continuing Medical Education, by the Italian Ministry of Health.

LABORATORY HANDS-ON WORKSHOPS FACULTY

Marco Agostini
University of Padua, Pediatric Research Institute, City of Hope

Benedetta Accordini
University of Padua Pediatric Research Institute, City of Hope

Claudio Belluco
Centro di Riferimento Oncologico, Aviano, Italy

Silvio Bresolin
University of Padua, Pediatric Research Institute, City of Hope

Barbara Buldini
Azienda Ospedaliera-University of Padua, Padua, Italy

Giuseppe Cerrano
Pediatric Research Institute, City of Hope

Maddalena Paganin
Azienda Ospedaliera-University of Padua, Padua, Italy

Valentina Serafin
Azienda Ospedaliera-University of Padua, Padua, Italy

Silvia Trabucco
Azienda Ospedaliera-University of Padua, Padua, Italy

Renato Zambello
Azienda Ospedaliera-University of Padua, Padua, Italy

LECTURES FACULTY

Adriana Albini
University of Milan, Milan, Italy

Gustavo Baldassarre
Centro di Riferimento Oncologico, Aviano, Italy

Alessandra Bitelli
University of Padua, Padua, Italy, Dana Farber Cancer Institute, Boston USA

Silvio Bisciacca
University of Modena and Reggio-Emilia, Modena, Italy

Andrea Bondi
University of Milano Bicocca, Monza, Italy

Gianni Bisogno
Padova, University of Padua, Padua, Italy

Paolo Bonaldo
University of Padua, Padua, Italy

Barbara Buldini
Azienda Ospedaliera-University of Padua, Padua, Italy

Raffaella Colombatti
Azienda Ospedaliera-University of Padua, Padua, Italy

Annalisa Dalzini
Padova, University of Padua, Padua, Italy

Antonela Viola
University of Padua, Padua, Italy

Gianpietro Viola
University of Padua, Padua, Italy

Renato Zambello
Azienda Ospedaliera-University of Padua, Padua, Italy

PhD (George Mason University)

Alessandra Luchini
Pediatric Research Institute, City of Hope

Lance Liotta
Novartis Pharmaceutica, USA

Anna Chiara Frigo
University of Padova, Padua, Italy

Carlo Giaquinto
University of Padua, Padua, Italy

Valentina Serafin
Azienda Ospedaliera-University of Padua, Padua, Italy

Gustavo Baldassarre
Pediatric Research Institute, City of Hope

Valentina Serafin
University of Padova, Padua, Italy

Blasie Xie
BluebirdBio, Italy
MONDAY JANUARY 13, 2020
Institute of Pediatric Research (IPR)

09:00 - 09:30 Greetings from local Authorities
09:30 - 10:00 The upcoming revolution in translational medicine. Introduction to the course
Lance Liotto Virginia, USA
10:00 - 10:30 PLENARY LECTURE
Emerging use of CAR-T cells in Leukemia and Solid Tumors - Andrea Biondi Milan
Coffee break
10:30 - 11:00 New insights into chronic lymphoproliferative disorders of granulocytic lymphocytes
Renato Zambello Padua
11:00 - 11:30 Flow cytometry and the diagnosis of leukemia - Barbara Baldinini Padua
12:00 - 12:30 Angiogenesis and Tumor Microenvironment - Adriana Albini Milan
12:30 - 12:45 Concluding remarks & CME Evaluation Time
12:45 - 14:00 Lunch
14:00 - 17:30 Laboratory Hand-on workshops (no ECM)

TUESDAY JANUARY 14, 2020
Institute of Pediatric Research (IPR)

09:00 - 12:15 MORNING LECTURES
How translational research is revolutionizing cancer treatment
09:30 - 10:00 Protein Painting: Using Small Molecule Dyes to Identify Druggable Contact Regions Between Protein Binding Partners - Alessandra Luchini Virginia, USA
10:00 - 10:30 In vitro modeling of multidrug resistant drug resistance identification of new therapeutic targets by a multi omics-based approach - Giampietro Viola Padua
10:30 - 10:45 Coffee break
10:45 - 11:15 Translational research in ovarian cancer the MTO experience - Gustavo Baldassarre Aviano
11:15 - 11:45 Translational research in breast cancer - Lance Liotto Virginia, USA
11:45 - 12:15 Challenges in Pediatric Clinical Research - Gianni Bisogno Padua
12:15 - 12:30 Discussion
12:30 - 14:00 Lunch
14:00 - 17:30 Laboratory Hands-on workshop (no ECM)

WEDNESDAY JANUARY 15, 2020
Institute of Pediatric Research

09:00 - 09:30 MORNING LECTURES
Translational research for dissection of host-pathogen interaction, infectious disease diagnostics and treatment.
09:30 - 10:00 Targeting Inflammation - Antonella Viola Padua
09:30 - 10:00 Novel strategies for tuberculosis and neglected disease detection and diagnosis in developing countries - Alessandra Luchini Virginia, USA - Raffaella Colombatti Padua
10:00 - 10:45 Update on Translational medicine in HIV research and virology
Carlo Giaquinto, Anita de Rossi, Annalisa Dalzini Padua
10:45 - 11:15 Coffee break
11:15 - 11:45 Antibiotic Resistance and Stewardship - Daniele Donà Padua
11:45 - 12:30 Integrative analysis of -omics data for precision medicine - Silvio Bicciato Padua
12:30 - 14:00 Lunch
14:00 - 17:30 Laboratory Hands-on workshop (no ECM)

THURSDAY JANUARY 16, 2020
Institute of Pediatric Research

09:00 - 12:30 MORNING LECTURES
Genetic disorders and Bioethics
09:00 - 09:30 Col6-related myopathies from pathomolecular mechanisms to clinical trials
Paolo Bonaldo Padua
09:30 - 10:00 Sickle Cell Disease: multiple therapeutic approaches for a single gene disorder
Raffaella Colombatti Padua
10:00 - 10:30 Discussion
10:30 - 11:00 Coffee break
11:00 - 11:30 Unraveling the brain: advanced imaging and “old” techniques in genetic disorders
Renzo Manara Salerno
11:30 - 12:00 The role of Ethics in Biomedical Research: past, present and future - Silvia Tusina Padua
12:00 - 12:30 The role of Ethics Committees in Biomedical research - AnnaChiara Frigo Padua
12:30 - 14:00 Lunch
14:00 - 17:30 Laboratory Hands-on workshop (no ECM)

FRIDAY JANUARY 17, 2020
Institute of Pediatric Research

09:00 - 10:30 MORNING LECTURES
Care, Patent and Intellectual property - Pharma perspective
09:00 - 09:30 Patient care from the nurse perspective - Nicola Celon, Giulia Belluccio Padua
09:30 - 10:00 Patients Representatives perspectives in the era of precision medicine
10:00 - 10:30 Patent and Intellectual property - Lance Liotto Virginia, USA
10:30 - 11:00 Gene editing and gene therapy in genetic disorders - Alessandra Biffi Padua
11:00 - 11:15 Coffee Break
11:15 - 11:45 From research to the community: the case of gene therapy development
Gabriella Pasciuollo Blue Bird Bio (no ECM)
11:45 - 12:15 Translational medicine: focus and approach from a big pharma
Riccardo Giani Padua Novartis Pharmaceuticals (no ECM)
12:15 - 12:30 Concluding remarks - Delivery of certificates & CME Evaluation Time
12:30 - 14:00 Lunch
14:00 - 18:00 Laboratory Hands-on workshop + Final Essay Preparation (no ECM)