



A.D. 1308

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UNIVERSITÀ DEGLI STUDI
DI PERUGIA

PHD IN MEDICINE AND EXPERIMENTAL THERAPIES

SYMPOSIUM ON NOVEL EXPERIMENTAL MODELS IN BIOMEDICAL RESEARCH (VENERE)

15TH OF SEPTEMBER,
SALA DEI NOTARI,
PERUGIA

SCAN HERE TO REGISTER



yourSial

SYMPOSIUM

15TH
SEPT
2025

WHERE

SALA DEI
NOTARI

8.00-8.30

In-site Registration

Opening Cerimony

8.30-9.00

Prof. Vincenzo Nicola Talesa,
Director of the Department of
Medicine and Surgery,
University of Perugia

Session 1: Approaching novel experimental models of human pathologies

Chairs: **Valentina Franzoni**, **Chiara
Brachelente**

9.00-9.30

Keynote speaker

Jan Fric, International Clinical
Research Center (ICRC), Brno,
Czech Republic

**Modeling Human Immunity in
3D: Organoids from iPSCs for
Immunotherapy Refinement**

9.30-9.40

Federico Baldoni, Mathematics
and Informatics Department,
University of Perugia

**Biomedical Virtual Reality:
Automated Generation of 3D
Models of Organoids from
Microscopic Sections**

9.40-10.00

Efsun Somay, Dept. of Oral and
Maxillofacial Surgery, Faculty of
Dentistry, Baskent University,
Ankara, Turkey

**Modeling Radiation-Induced
Oral Toxicities: Bridging Bench
to Bedside**

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10.00-10.10

Consuelo Fabi, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Microfluidic multi-organ-on-a-chip in translational pathology: a case for Hyperoxaluria.

PhD
Elevator
talks

10.10-10.30

Alessia Sulla, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Modelling inflammatory diseases and cancer through organoids: 3D platforms bearing patient-related signature

Sara Ambrosino, Pharmacology section, Dept. of Medicine and Surgery, University of Perugia
Characterization of the IDO1H350A mouse: a genetically modified model of inactive IDO1 enzyme

Florinda Apone, Anatomy section, Dep. of Medicine and Surgery, University of Perugia
Innovative tools of DIMEC: virtual tour

10.30

Refreshment Break

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Session 2: Host-pathogen dynamics

Chairs: Alicia Wong - Antonella Mencacci

11.00-11.30

Keynote speaker
Andrea Crisanti, Molecular Parasitology Section, Department of Life Sciences - Faculty of Natural Sciences, Imperial College, United Kingdom
In natural selection from fiction to science: gene drive to eradicate vector borne diseases

11.30-11.40

Chiara De Waure, Hygiene section, Dept. of Medicine and Surgery, University of Perugia
New perspectives and challenges in vaccination

11.40-11.50

Marina Maria Bellet, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Circadian metabolic adaptations to infections

11.50-12.00

Roberta Spaccapelo, Genetic and Genomic section, Dept. of Medicine and Surgery, University of Perugia
Discovering insights from the microbiome in breast cancer to advanced personalised medicine

12.00-12.10

Vasileios Oikonomou, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Invasive fungal infections and targeted therapies in Chronic Lymphocytic Leukemia

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12.10-12.20

Claudio Costantini, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Comparative host-microbe metabolism in drug development

12.20-12.30

Teresa Zelante, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Careful at that clique: a novel machine learning based approach to analyse the oral microbiome in cancer patients

12.30 - 12.40

Margherita Bertuzzi, Lecturer at the University of Manchester, United Kingdom
Modeling the antifungal potency of alveolar epithelium from cells to systems

PhD
Elevator
talks

12.40-13.10

Melania Ligato, Genetic and Genomic section, Dept. of Medicine and Surgery, University of Perugia
From Gene Editing to Swarming Analysis: Deciphering Mating Behavior of the Malarial *An. gambiae* Mosquito

Dominga Manfredelli, Bioscience and Embriology section, Dept. of Medicine and Surgery, University of Perugia
Methylglyoxal-dependent glycative stress in cystic fibrosis

Celine Alami, Genetic and Genomic section, Dept. of Medicine and Surgery, University of Perugia
Transcriptomic Profiling of the *Culex pipiens* f. *molestus* Mosquito to Drive Gene Editing-Based Vector Control

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Anna Carrozzini, Genetic and Genomic section, Dept. of Medicine and Surgery, University of Perugia
Characterization of the CLPTM1 Protein Family in *Toxoplasma gondii*

Gianluca Vascelli, Pathology section, Dept. of Medicine and Surgery, University of Perugia
Novel B–T cells crosstalk guides ABPA pathogenesis in young cystic fibrosis patients

13.10

Refreshment lunch

14.00-14.30

Francesca Aglialoro, Scientific Support Specialist, Corning,
Innovative Approaches to 2D and 3D Model Generation Using Corning Permeable Supports

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Session 3: Cancer-therapy precision cycle

Chairs: M.Agnese Della Fazia -
Francesco Grignani

14.30-15.00 **Keynote Speaker**
Jos Jonkers, Netherland Cancer
Institute, Netherland
**Genetic dissection of breast
cancer using murine models**

15.00-15.10 Damiano Scopetti, Pathology
section, Dept. of Medicine and
Surgery, University of Perugia
**Transposable Elements as Master
regulators of Epigenetic
Carcinogenesis in LKB1-loss LUAD**

15.10-15.20 Nicola Di Iacovo, Pathology
section, Dept. of Medicine and
Surgery, University of Perugia
**Uncovering the role of
HOPS/TMUB1 in cell cycle
regulation and carcinogenesis**

15.20-15.30 Guglielmo Sorci, Anatomy section,
Dept. of Medicine and Surgery,
University of Perugia
**A novel experimental model to
understand the role of the
receptor RAGE in cancer-induced
muscle wasting**

15.30-15.40 Marco Gargaro, Dept. of
Pharmaceutical Sciences,
University of Perugia
**Breaking Aryl Hydrocarbon
Receptor's Tumor
Microenvironment Sensing for
Enhanced cDC1-Mediated
Antitumor Response**

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15.40-15.50

Francesca Fallarino,
Pharmacology section, Dept. of
Medicine and Surgery, University
of Perugia
**Tumor Immune
Microenvironment Metabolism:
Unveiling IL4i1 Enzyme role and
Therapeutic Potential**

15.50-16.00

Sofia Rossini, Pharmacology
section, Dept. of Medicine and
Surgery, University of Perugia
**Adverse pro-tumorigenic effects
of IDO1 catalytic inhibitors: role of
the non-enzymatic function of
IDO1 in tumor cells**

16.00-16.10

Martina Mandarano, Anatomic
Pathology and Histology section,
Dept. of Medicine and Surgery,
University of Perugia
**The role of surgical pathology in
the study of immunomodulatory
therapies for human
malignancies: the experience of
the Perugia center in breast and
lung cancer**

**PhD
Elevator
talks**

16.10-16.30

Luca Pierucci, Pathology section,
Dept. of Medicine and Surgery,
University of Perugia
**Role of Hops In Oncogene-
Induced Senescence**

Alessandro Pinzi, Pharmacology
section, Dept. of Medicine and
Surgery, University of Perugia
**Decoding the interaction
between tryptophan derivates
and Aryl Hydrocarbon Receptor
(AhR) to develop new
immunotherapy strategies for
inflammatory-related
conditions**

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Anna La Rosa, Pharmacology
section, Dept. of Medicine and
Surgery, University of Perugia
**Circular approach in olive tree
pruning residue management:
from biomass to natural
therapies**

16.30

Refreshment break

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Session 4: Points of View and Novel Aspects on Molecular and Clinical Pathology

Chairs: Giacomo Cafaro - Stefano Fiorucci

17.00-17.30 **Keynote Speaker**
Timperi Eleonora
Dept. of Translational Medicine and Surgery, Section di General Pathology, Università Cattolica del Sacro Cuore
Lipid associated macrophages in cancer

17.30-17.40 **Letizia Mezzasoma**, Bioscience and Embriology section, Dept. of Medicine and Surgery, University of Perugia
NLRP3-Inflammasome: Crossroads of Immunity and Pathology

17.40-17.50 **Francesca Mancuso**, Histology section, Bioscience and Embriology section, Dept. of Medicine and Surgery, University of Perugia
Preservation and restoration of fertility in prepubertal cancer patients: Improvement of cryopreservation methods and recovery of endocrine function and spermatogenesis

17.50-18.00 **Cinzia Antognelli**, Bioscience and Embriology section, Dept. of Medicine and Surgery, University of Perugia
Methylglyoxal-dependent glycative stress in health and disease

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18.00-18.10

Barbara Cellini, Biochemistry
section, Dept. of Medicine and
Surgery, University of Perugia
**Biochemical Insights into Rare
Disorders Involving Vitamin B6-
Dependent Enzymes**

18.10-18.20

Francesca Riuzzi, Anatomy section,
Dept. of Medicine and Surgery,
University of Perugia
**Novel approaches to counteract
the detrimental effects of a
Western-style diet on skeletal
muscle**

18.20-18.30

Maria Teresa Pallotta,
Pharmacology section, Dept. of
Medicine and Surgery, University of
Perugia
**Deciphering the role of the
immune system in Wolfram
Syndrome**

18.40-18.50

Rachele Del Sordo, Anatomic
Pathology and Histology section,
Dept. of Medicine and Surgery,
University of Perugia
**Expression of tight junction
proteins in human inflammatory
bowel disease: the pathologist's
role and clinical implications**

**PhD
Elevator
Talks**

18.50-19.30

Luana Sallicandro, Dept. of
Chemistry, Biology and
Biotechnology, University of
Perugia
**Neuroendocrine Dysfuntion of
Polycystic Ovary Syndrome: The
Role of Calcitonin Gene-Related
Peptide**

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Luana Ruta, Biochemistry section,
Dept. of Medicine and Surgery,
University of Perugia

**A Rare Haplotype Alters the
Pathogenic Effect of the
p.Ile279Thr Mutation in the AGXT
Gene Associated with Primary
Hyperoxaluria Tipe 1**

Alberto Farina, Sanofi, Milano
**Is acute inflammation still the right
therapeutic target in multiple
sclerosis? Insights from the GEMINI
studies**

Francesco Sarnari, Pharmacology
section, Dept. of Medicine and
Surgery, University of Perugia
**Unraveling the Role of Factor VIII in
Regulating Inflammatory
Responses in Dendritic Cell Subsets**

Andrea Biagini, Dept. of Chemistry,
Biology and Biotechnology,
University of Perugia
**Spontaneous calcium waves and
rhythmic activity in human
cumulus cells**

Ester Castagnaro, Sanofi, Milano
**RevolutionAlze EoE: How Artificial
Intelligence is Changing
Eosinophilic Esophagitis
Management Paradigm**

19.30

**Awards, Conclusion, and Final
Remarks**

20.00

**Meet the Speakers aperitif at
"La Biblioteca Del Conte"**



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HOW TO REACH SALA DEI NOTARI

Address: Palazzo dei Priori, Corso Vannucci, 19 – 06123 Perugia, Italy

For those arriving by train:

From Perugia Fontivegge Station, you can take the Minimetrorò to the "Pincetto" stop. From there, the Sala dei Notari is about a 10-minute walk along Corso Vannucci.

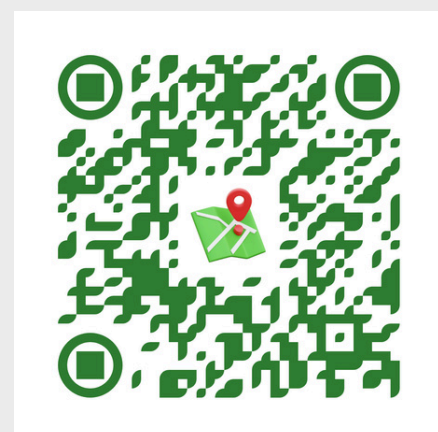
For those arriving by car:

The nearest parking lots are:

- Parcheggio Pellini (paid)
- University of Perugia Parking in Via Pascoli (free from 8:00 PM)

For those arriving by plane:

Umbria International Airport "San Francesco d'Assisi" is about 12 km from the center of Perugia. From the airport, the Sala dei Notari can be reached by taxi or public transportation.



Scan here to reach us

Edited by Florinda Apone
Photo by Alessia Sulla