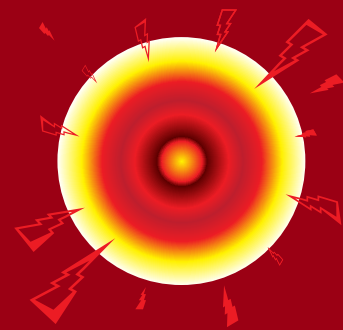


# SUMMER

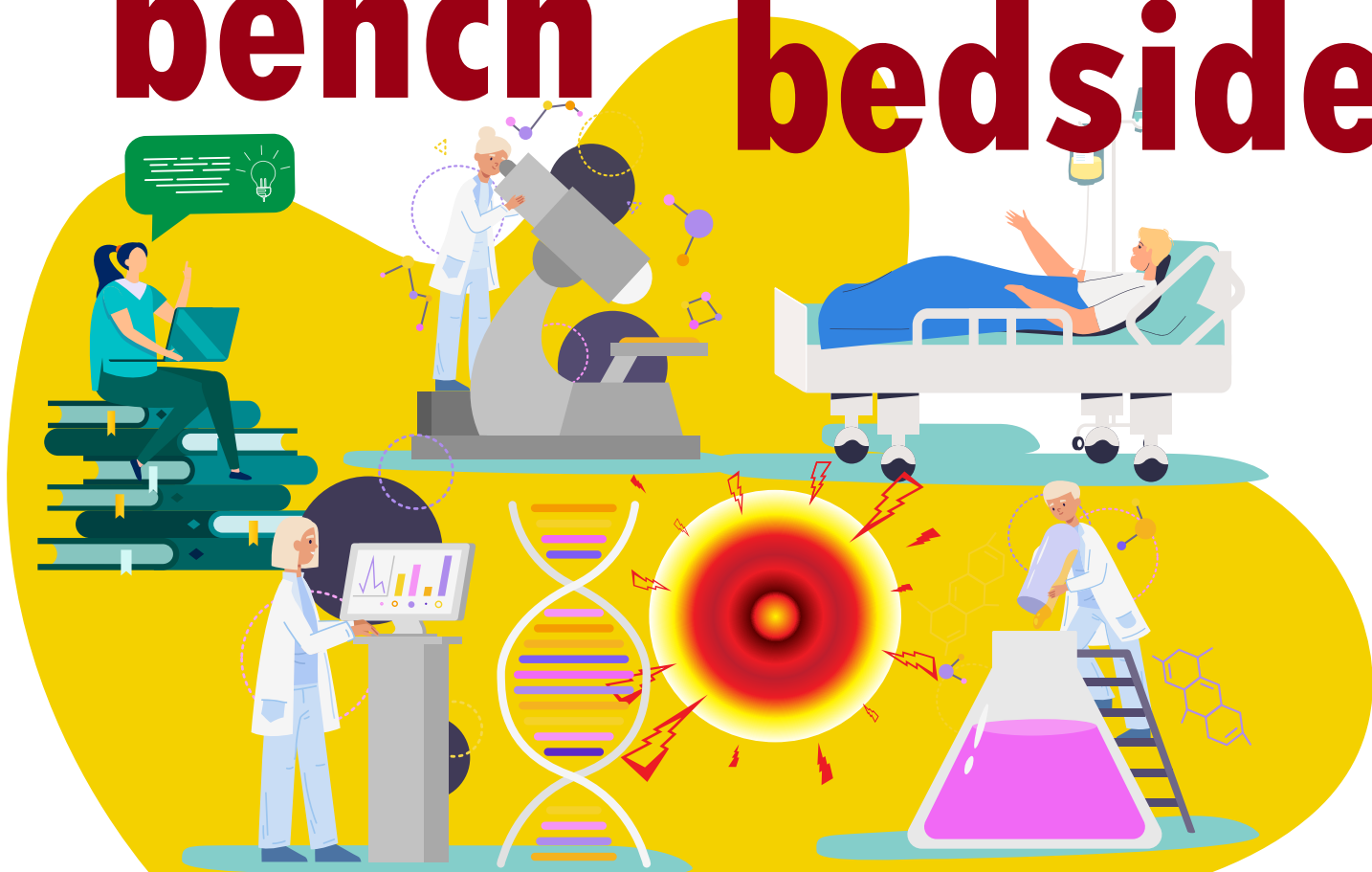


Padova, 30 June – 4 July 2025

# SCHOOL

Understanding the many shapes of inflammation:

# from bench to bedside



Coordinators: **Elena Campello** and **Luca Fabris**

Department of Medicine-DIMED

with the endorsement of:



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



Dipartimento  
di Medicina-DIMED  
Direttore  
Prof. P. Simioni



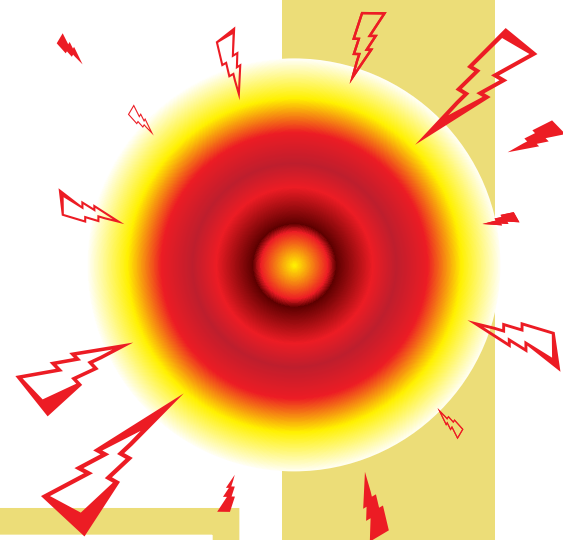
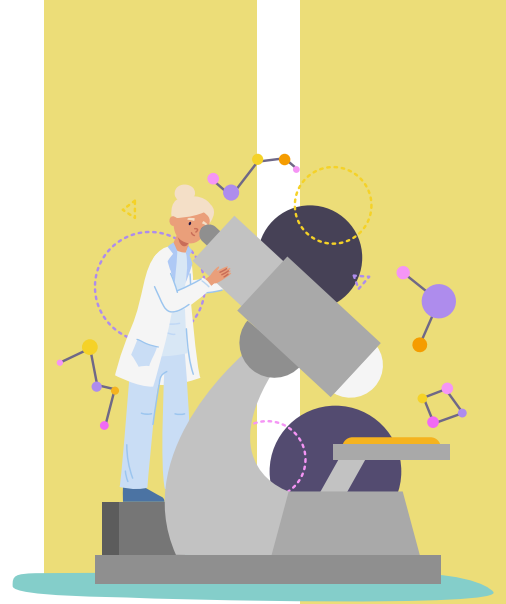
Scuola di Medicina  
e Chirurgia  
Università di Padova



REGIONE DEL VENETO  
Azienda  
Ospedale  
Università  
Padova

## Rationale

Inflammation is a multifaceted biological process that plays a critical role in the body defense against infection and injury. However, when dysregulated, inflammation can drive the development of numerous chronic diseases, such as autoimmune disorders, cardiovascular diseases, cancer, and neurodegenerative conditions. The summer school focuses on exploring the many “shapes” or forms that inflammation can take, from acute, beneficial responses to chronic, pathogenic processes. The program covers a wide array of topics, beginning with the fundamental biological mechanisms of inflammation. Participants will explore the cellular and molecular pathways involved, the interplay between innate and adaptive immunity, with a focus on how these systems collaborate to mediate inflammation. A distinguishing feature of this program is its “bench to bedside” approach, which underscores the importance of translating basic research into clinical practice. Participants will gain insights into how cutting-edge research informs the development of new therapies and how clinicians apply these findings in the treatment of inflammatory diseases. Topics such as immunotherapies, biologic drugs targeting specific inflammatory pathways, and the use of biomarkers for diagnosing and monitoring inflammatory conditions will be highlighted. In addition to theoretical learning, the program incorporates hands-on workshops designed to give participants practical experience in investigating inflammation. Workshops may include laboratory techniques such as flow cytometry, RNA sequencing, CRISPR-based gene editing, and proteomics, all of which are essential tools in modern inflammation research. These sessions allow participants to directly apply what they’ve learned in lectures, gaining technical skills that are valuable for their research careers. This aspect of the program is particularly beneficial for participants interested in translational medicine, as it demonstrates how laboratory discoveries can impact patient care.



## Faculty

The quality of the program is enhanced by the involvement of high-caliber local and international researchers. Faculty members include prominent researchers from the University of Padova’s as well as invited speakers from prestigious institutions worldwide. These experts are at the forefront of inflammation research, and their contributions ensure that the content of the summer school is current, evidence-based, and rooted in the latest scientific advancements.

## Venues

**Aula Austoni**, Edificio ex Semeiotica Medica,  
via Ospedale civile 105, Padova

**Caffè Pedrocchi**,  
via VIII Febbraio 15, Padova

## Application

The course is open to 20 undergraduate medical students (4/6 years), early graduate medical students, PhD students and residents.

**Deadline for application: April 30th, 2025**

Applications can be uploaded at



click here:



Selected students will be notified within 15 days of application. For students needing accommodation a tuition fee of 500 € will be requested.

School registration includes most meals and guided tours.

**Registration deadline: May 30th, 2025**

## Funding

The School was granted by **Progetto Eccellenza “FLAMES”**, Department of Medicine-DIMED

## Scientific and organizing contact

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cell. +39 392 697 90 59



# Full program

	Monday, 30th June Aula Austoni	Tuesday, 1st July Aula Austoni	Wednesday, 2nd July Aula Austoni	Thursday, 3rd July Aula Austoni	Friday, 4th July Caffè Pedrocchi
	<b>Inflammation at a glance</b>				
<b>9 – 10 am</b>	<b>Inflammation, cell interactions, disease progression</b>	<b>Finding Inflammation</b>	<b>New Inflammatory diseases</b>	<b>Anti-inflammatory Therapeutic Strategies</b>	
	<i>Introduction</i> Paolo Simioni, Padova	<i>Laboratory measurement of inflammation</i> Andrea Padoan, Padova	<i>Metabolic Inflammation (MASLD)</i> Luca Fabris, Padova	<i>Refining the use of glucocorticoids in immune-mediated inflammatory diseases</i> Andrea Cignarella, Padova	
	<i>Lifestyles for prevention of inflammation</i> Alessandra Buja, Padova	<i>Ultrasound and inflammation</i> Emilio Quaia, Padova	<i>Clonal Hematopoiesis, Inflammation, and Hematologic Malignancy</i> Fabrizio Vianello, Padova		
<b>10 – 11 am</b>	<b>Inflammation and cell interactions, disease progression</b>	<b>Finding Inflammation</b>	<b>New Inflammatory diseases</b>	<b>Anti-inflammatory Therapeutic Strategies</b>	
	<i>The relevance of inflammation in the pathophysiology of atherosclerosis</i> Fabrizio Montecucco, Genova	<i>CT/MRI and inflammation</i> Filippo Crimi, Padova	<i>Inflammation, Microbiome and Gut-Liver axis in Liver Disease</i> Romina Fiorotto, Yale	<i>Inflammation, Metabolic Rewiring and Carcinogenesis</i> Patricia Aspichueta, Blodnonostia	
	<b>Coffee break</b>				
<b>11.30 – 12.30</b>	<b>Inflammation and endothelial cells</b> Anna Randi, Londra	<b>Nuclear Medicine and Inflammation</b> Diego Cecchin, Padova	<b>From Replacement to Revolution: Novel Approaches in Hemophilia Care</b> Chiara Simion, Padova	<b>Vitamin D and extraskeletal effects</b> Sandro Giannini, Padova	
				<b>Gene therapy and inflammation</b> Giulio Ceolotto, Padova	
<b>13.30 – 14.30</b>	<b>Relationship between inflammation, development and cancer: lessons from the bile duct</b> Luke Boulter, Edinburgh	<b>Ultrasound and Radiology practical section</b>	<b>Anti-PF4-immunothrombosis</b> (Linda Schönborn, Greifswald)	<b>Wrap-up and closing remarks</b> Paolo Simioni, Padova	
	<b>Laboratory – flow-cytometry practical section</b> Claudia Radu, Loris Bertazza, Alessandra Giannella, Padova	<b>Ultrasound and Radiology practical section</b>	<b>New anti-inflammatory targeted therapies</b> Luca Iaccarino, Padova	<b>Farewell Lunch</b>	
<b>14.30 – 16.30</b>	<b>Practical activity Pathological Anatomy</b>	<b>Visit to Botanical Garden</b>	<b>Discussion with experts and clinical cases</b>		
	<b>19.30 Welcome dinner</b>	<b>Visit to Palazzo Bo</b>	<b>Visit to Scrovegni Chapel</b>		