PhD course in Life Sciences and Biotechnology

Teaching Activities 2024-2025: seminars & courses schedule

Please note:

- the teaching activities will be held in presence. The Teams links will be provided only upon request and for motivated reasons;
- the teaching activities calendar will be updated throughout the year with dates and times. You will find the updated version on the PhD Course website, so please check it out.

Here you will find the schedule of the coming online lectures and seminars:

November		
Mon 4 th , 14.30-16.30	Trends in Biomedical Sciences (0.25 CFU) - organized by P. Campomenosi "From the clinical need to diagnostic laboratories: the business processes th lead to the availability of an IVD device" Erlet Shehi, Clonit (Italy)	
December		
Thu 12 th , 11.30-13.30	Trends in Biomolecular Sciences (0.25 CFU) - organized by G. Bernardini "Epigenetics and Cardiovascular Homeostasis: Concepts and Applications" Part 1 Christina Pagiatakis, Università degli Studi dell'Insubria	
Tue 17 th , 16.00-18.00	Trends in Biomedical Sciences (0.25 CFU) "Al in ophthalmology: a preview of the innovation technology in medicine" Simone Donati, Università degli Studi dell'Insubria	
Fri 20 th , 14.30-16.30	Transversal skills - Module C (0.5 CFU) - organized by S. Sacchi "How to make the most of your professionalism: former PhD students talk about their experience, inside and outside Academia" Fabio Tonin	

January – May

"ENTer Seminars in Ear, Nose and Throat surgery"

Mario Turri Zanoni, Università degli Studi dell'Insubria and other speakers

NB: the program is being defined, you will find it in pdf format on the PhD web page in the "Teaching activity" section (at the top, Document, ENTer.pdf).

January – February

23th Jan – 27th Feb BIOINFORMATICS (3 CFU) - every Thursday, 14.00-18.00

Gianluca Molla, Università degli Studi dell'Insubria

NB: This course is mandatory and scheduled for the XXXIX cycle students

Ilaria Mancini

January

Thu 16th, 11.30-13.30 Trends in Biomolecular Sciences (0.25 CFU) - organized by G. Bernardini "Epigenetics and Cardiovascular Homeostasis: Concepts and Applications" Part 2 Christina Pagiatakis, Università degli Studi dell'Insubria Trends in Biomedical Sciences (0.5 CFU) - organized by M. Viola Thu 17th, 14.30-16.30 "Biomarkers for risk assessment" Francesco Gianfagna, Università degli Studi dell'Insubria Thu 31th, 10.00-12.00 "Methods for meta-analysis" Anwal Ghulam, Università degli Studi dell'Insubria Tue 28th, 15:30-17.30 Trends in Biomedical Sciences (0.5 CFU) - organized by P. Campomenosi "Current approaches in cancer: the paradigmatic example of lung cancer" Lung cancer natural history: implications for early diagnosis and surgery Andrea Imperatori, AO Circolo e Fondazione Macchi, Varese Therapeutic approaches for the treatment of lung cancer Francesco Grossi, AO Circolo e Fondazione Macchi, Varese **Leveraging Cancer Biology to Overcome Drug Resistance** Giorgia Foggetti, Dibit 2, San Raffaele, Milano The Emerging Prognostic Role of Extracellular Vesicles and Platelets in **NSCLC** Simona Coco, AO San Martino, Genova

February

4 th - 27 th	BIOSTATISTICS (3 CFU)			
	Giorgio Binelli, Università degli Studi dell'Insubria			
NB: This course is mandatory and scheduled for the XL cycle students				
	Transversal skills - Module B (0.5 CFU) — organized by S. Sacchi Essential elements for high-impact scientific writing and communication "Science dissemination through new media" Ivano Eberini, Università degli Studi di Milano, La Statale			
Fri 21 th 14.30-16.30	Trends in Biomolecular Sciences (0.25 CFU) - organized by C. Vannini & E. Bossi "cAMP-mediated signaling in plants and animals" Physiological roles of cyclic nucleotide-gated channels in excitable tissues Mirko Baruscotti, Università degli Studi di Milano			
	Hidden mechanisms of ion channel regulation - discovery and characterisation Christoph Andreas Gehring, Università degli Studi di Perugia			
Fri 28 th , 11.30-13.30	Transversal skills - Module B (0.25 CFU) - organized by S. Sacchi "Writing an application: Givens and Druthers" Francesco Bonomi, Università degli Studi di Milano, La Statale			

<u>Please note:</u> this activity has been planned and organized in collaboration with the PhD Course in Experimental and Translational Medicine.

March

Thu 12th 14 20 16 20	Transversal skills – Module C (0.25 + 0.25 CFU) - organized by M. Viola		
Thu 13 th , 14.30-16.30	"Quality, result indicators and performance evaluation in laboratories"		
Thu 20 th , 14.30-16.30	"Levels of certifications for biomedical laboratories"		
	Claudia Placidi, ASST Sette Laghi		
	Introduction to plant functional types and strategies in ecological analysis		
	(0.75 CFU) - organized by B. Cerabolini		
Tue 25 th , 14.30-16.30	1) "Plant functional traits and the global spectrum of plant form and		
	function"		
Wed 26 th , 14.30-16.30	2) "Plant adaptative strategy theories"		
	Bruno Cerabolini, Università degli Studi dell'Insubria		
Thu 27 th , 14.30-16.30	3) "Applications of plant functional analysis: bioenergy use types,		
	biodiversity and productivity assessments"		
	Michele Dalle Fratte, Università degli Studi dell'Insubria		
	<i>,</i>		

April-June

9th Apr – 27th June

Transversal skills – Module C: Project management (1 CFU)

Innovation camp – Multidisciplinary activity

Mauro Fasano, Executive Deputy Chancellor for Innovation and Technology Transfer, University of Insubria

<u>Please note</u>: A brief description of the planned activities is available on the PhD web page, while the program of the scheduled lectures and meetings will be available as soon as defined. The attendance of this activity is strongly suggested.

April

Thu 3rd, 14.00-16.00

Trends in Biomolecular Sciences (0.25 CFU) – organized by E. Rosini **"Biocatalysis"**

Industrial plants as sources of robust enzymes

Salvatore Fusco, Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona

From waste to value: a case study of full range exploitation of whey

Chiara Schiraldi, Università degli Studi della Campania "Luigi Vanvitelli", Dipartimento di Medicina Sperimentale

Thu 10th, 14.30-16-30

Trends in Biomedical Sciences (0.5 CFU) – organized by M. Gariboldi

"Nutraceutics, functional foods and novel foods: pharmacology, technology, and testing"

Alessandro Colletti, Dipartimento di Scienza e Tecnologia del Farmaco, Università di Torino

Marzia Pellizzato, CAMP-Research e Presidente della Società italiana formulatori in nutraceutica (Sifnut)

Mon 24th, 09.30-13.30

Trends in Biomedical Sciences (0.5 CFU) - organized by A. Montagnoli

"Computer Vision for Image Diagnosis (radiomics)"

Francesco Mercaldo, Università del Molise Seminar with practical activities (0.25+0.25 CFU)

Wed 30th, 9.00-18.00

Course on safety and good practice in the laboratory (min 1 CFU)

Ufficio Sicurezza e Sostenibilità, Università degli Studi dell'Insubria

NB: participation in this course is strongly recommended, especially for the XL cycle students. A certificate will be issued at the end of the course

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Wed 7th, 14.30-16.30 **Trends in Biomedical Sciences** (0.25 CFU) - organized by J. Karousou

"Cellular matrix and tumors"

Spyros S. Skandalis, Department of Chemistry, University of Patras, Greece

Wed 14th, 14.30-16.30 Trends in Biomolecular Sciences (0.5 CFU) – organized by S. Sacchi & E. Bossi

"At the crossroad between the nervous and immune system: how maternal

immune activation shapes neurodevelopment in offspring" Davide Pozzi, Università Humanitas HUNIMED

"Mechanisms for microbial regulation of psychostimulant abuse"

Angela Carter, University of Alabama at Birmingham, USA (by remote)

<u>Please note:</u> this activity has been planned and organized in collaboration with the PhD Course in Experimental and Translational Medicine.

Thu 15th, 14.30-16.30 Trends in Biomolecular Sciences (0.25 CFU) - organized by S. Sacchi and L.

Pollegioni

"Conventional and unconventional functions of amino acid transporters"

"The serine shuttle in brain health and disease"

Herman Wolosker, Technion-Israel Institute of Technology, Haifa, ISRAEL

"The amino acid LAT1 transporter: structure/function relationships, regulation, human pathology and drug targeting"

Cesare Indiveri, Università della Calabria e Istituto di Biomembrane,

Bioenergetica e Biotecnologie Molecolari, CNR, Bari

Tue 20th, 15.30-17.30 Transversal skills - Module C: Crosslinking academia and industry for the

creation of new professional opportunities (0.25 CFU) - organized by S. Sacchi

Discovery and development of new oncology drugs

Claudia Perrera, Nerviano Medical Sciences

Healthy, natural and functional products designed to improve the culture of

food and life

Federica Volontè, The Sacco System Group

Thu 22th, 14.30-16.30 Transversal skills – Module A (0.25 CFU)

"Scientific databases - How to use academic resources and services for the

bibliographic research"

Letizia Pelucchi – Università degli Studi dell'Insubria

June

Tue 3rd, 10th, 17th Introduction to Systems Biology (1.5 CFU)

Mauro Fasano, Università degli Studi dell'Insubria

NB: these courses are borrowed from the PhD in Experimental and Translational Medicine and will provide credits for both the Trends in Biomolecular Sciences and Trends in Biomedical Sciences courses. Check the time slot contacting prof. Fasano directly at mauro.fasano@uninsubria.it

Tue 10th, 13.00-17.00 PhD School Transversal and Multidisciplinary educational activities with the

collaboration of the Teaching and Learning Center

Personal branding

Caterina Farao, Dipartimento di Economia, Università degli Studi dell'Insubria

Mon 16th, 9.00-18.00 **Course on safety and good practice in the laboratory** (1 CFU)

Ufficio Sicurezza e Sostenibilità, Università degli Studi dell'Insubria

NB: participation in this course is requested to students who did not attend the course on April 30th.

"Data analysis by R"

Lesson 1: Introduction to R

Lesson 2: Linear models 1 - Data exploration

Lesson 3: Linear models 2 - Model fitting

Lesson 4: Special cases of linear models - Generalized and mixed models

Lesson 5: Practical work with own data

Enrique Andivia, Department of Biodiversity, Ecology and Evolution, Faculty of

Biological Sciences, Universidad Complutense de Madrid

July

Thu 3rd, 14.30-16.30 Transversal skills – Module C: fellowships and grant applications (0.5 CFU)

"Do you have plans (A, B, C...) for your career? Strategies and tips to help you

find your way around international fellowship applications"

Uninsubria fellowships receivers:

Ilaria Armenia

September

writing (0.25 CFU) - organized by L. Pollegioni and S. Sacchi

"Tips and tricks for writing a scientific manuscript"

Ref. Daniela Ruffel, FEBS Press Publisher

October

Tue 7th, 14.30-16.30 **Trends in Biomolecular Sciences** – organized by Paola Campomenosi

"The p53 family affair"

"p53 Mutants, structure and function: are all mutants the same?"

Paola Monti, Ospedale San Martino, Genova

"p53 isoforms and their biological significance"

Yari Ciribilli, Cibio, Università degli Studi di Trento

"Targeting p53 for cancer therapy"

Paola Menichini, Ospedale San Martino, Genova

Methods and techniques in life sciences and biotechnology

"Microscopy and imaging, a theoretical and practical course" (module 1, 1,5

CFU) – organized by G. Tettamanti, A. Grimaldi, M. Raspanti

Mon 13th, 14.00-16.00 In-class lectures: Microscopy and its Applications – Part A

Tue 14th, 14.00-16.00 In-class lectures: Microscopy and its Applications – Part B
 Wed 15th, 14.00-18.00 Practical activities, sample preparation and images acquisition
 Thu 16th, 14.00-18.00 Practical activities, sample preparation and images acquisition