PhD course in Life Sciences and Biotechnology

Teaching Activities 2023-2024: 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 13 th , 16.30-18.30	Trends in Biomedical Sciences – organized by V. Orlandi "Clinical microbiology between diagnosis and research: the example of SARS-CoV-2 pandemic" (0.25 CFU) Nicasio Mancini, Università degli Studi dell'Insubria
Wed 15 th , 16.30-18.30	Trends in Biomedical Sciences– organized by V. Orlandi "Viral evolution: from basic research to clinical applications" (0.25 CFU), Andreina Baj, Università degli Studi dell'Insubria
Wed 22 th , 10.30-12.00	Transversal skills – Module A "How to write a scientific paper" (0.25 CFU) Félix M. Goñi, University of the Basque Country (Spain)
Thu 23 th , 10.30-12.30	Trends in Biomedical Sciences "Recent advances on membrane studies" (0.25 CFU) Félix M. Goñi, University of the Basque Country (Spain
Thu 30 th , 14.30-16.30	Trends in Biomolecular Sciences – organized by G. Bernardini "Exploring interactions between 2D materials and the immune system" (0.25 CFU) Bengt Fadeel, Head of the Division of Molecular Toxicology, Institute of Environmental Medicine, Karolinska Institute, Stockholm (Sweden)
January - May	
schedule on the web	Trends in Biomedical Sciences "ENTer Seminars in Ear, Nose and Throat surgery" (1.25 CFU) Organized by P. Battaglia and M. Turri Zanoni, Università degli Studi

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).

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January

Thu 18th 14.30-16.30 Transversal skills – Module C: Crosslinking academia and industry for the creation of new professional opportunities (0.25 CFU) - organized by S. Sacchi "The industrial application of microorganisms. A wealth of professional opportunities"

Fabrizio Beltrametti (BioC-Chem, gerenzano)

February	
From 5 th to 27 th	BIOSTATISTICS (3 CFU) – every Monday and Tuesday, 14.30-17.30
	Giorgio Binelli, Università degli Studi dell'Insubria
	datory and scheduled for the XXXVIII cycle students
Fri 23 th 14.30-16.30	Transversal skills – Module B: Crosslinking academia and industry for the creation of new professional opportunities (0.25 CFU) "Addressing problems and implications in the development of a process for the production of an Antibody Drug Conjugate (ADC)"
	ADCs: chemical and analytical aspects Alberto Terraneo, Director, Research & Development, Cerbios
	Process development in the ADC field Daniele Martellato, R&D biotech, Cerbios
Wed 28 th 14.30-16.30	Transversal skills - Module B: Presentation skills and results dissertations "Selling your science stuff: A semi-serious guide to get or keep a job, and having fun doing it" (0.25 CFU) Francesco Bonomi, Università degli Studi di Milano, La Statale
March	
From 7 th to 21 th	Introduction to Systems Biology - (1.5 CFU) <u>every Thursday</u> , 14.00-18.00 Mauro Fasano,Università degli Studi dell'Insubria
	owed from the PhD in Experimental and Translational Medicine and will provide ends in Biomolecular Sciences and Trends in Biomedical Sciences courses
Fri 15 th 10.30-13.30	Trends in Biomolecular Sciences – organized by G. Bernardini "Nanoactuators for Therapy and Diagnosis" – (0.5 CFU) Jesus Martinez De La Fuente, Instituto de Nanociencia y Materiales de Aragón, INMA, CSIC-Universidad de Zaragoza, Spain
Thu 21 th 10.30-12 .30	Trends in Biomolecular Sciences - organized by S. Sacchi (0.5 CFU) "Crowding, protein entanglements and enzyme kinetics"
	Life in a crowded world: how the complex intracellular environment may influence and regulate biochemical kinetic processes in the cell Francesco Piazza – Università degli Studi di Firenze
	Iron sulfur biogenesis in Friedreich's ataxia: analysis in vitro and complex enviornment Salvatore Adinolfi – Università di Torino
Fri 22 th 14.30-16.30	Trends in Biomedical Sciences - organized by P. Campomenosi (0.25 CFU) "Introduction to the droplet digital PCR technology and its applications" Francesca Dionisio, BIORAD
	"MicroRNAs for screening and diagnosis of lung cancer: can droplet digital PCR overcome technical problems in their measurement?" Paola Campomenosi, Università degli Studi dell'Insubria

March-June To be defined Transversal skills – Module C: Project management Innovation camp – Multidisciplinary activity (1 CFU) 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. <u>This course is part of the transversal activities organized by the PhD School.</u>

April	
Tue 9 th 14.30-16.30	Transversal skills – Module C: Crosslinking academia and industry for the creation of new professional opportunities (0.25 CFU) - organized by S. Sacchi "Biotech, offshoring, reshoring and surroundings" Roberto Verga (BiCT, Lodi)
Thu 11 th 14.30-16 .30	Trends in Biomolecular Sciences – organized by F. Berini (0.25 CFU) "An insight into probiotics: from discovery, to production and application"
	Production and application of probiotics and lactic acid bacteria in different industrial sectors Luciana Gironi – Sacco S.r.l.
	Lyophilisation and encapsulation of next-generation probiotics and postbiotics Andreja Leboš Pavunc – Zagreb University
	Next generation probiotics for intestinal microbiome Jasna Novak – Zagreb University
Mon 15 th 14.30-16.30	" Transfection optimization and flow cytometry " – organized by E. Rosini & A. Bruno (0.5-1 CFU)
	Converging approaches to gene delivery Gabriele Candiani, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano
	Flow cytometry: from basics to advanced applications Ivan Muradore Flow cytometry facility manager, Scientific and Technological Pole (PST) IRCCS MultiMedica, Milan
	Practical activities
Tue May 14 th	Gene delivery by the VibroFect technology Elena Rosini and Gabriele Candiani Lanzavecchia builiding, blue floor, Immunohub CHO lab (in small groups) DBSV, Via J.H. Dunat 3, varese
Mon May 20 th	Insights in flow cytometry Antonino Bruno and Ivan Muradore IRCCS MultiMedica, Scientific and Technological Pole (PST) Via Fantoli 16/15, Milano

NB: this short course will provide credits for both the Trends in Biomolecular Sciences and Trends in Biomedical Sciences courses, at your choice

Mon 22nd 11-00-13.300 **Trends in Biomolecular Sciences** – organized by S. Sacchi (0.25 CFU) **"Application of circular dichroism spectropolarimetry to the study of proteins"** Stefano Barbiroli – Università degli Studi di Milano "La Statale" degli Studi dell'Insubria

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

May	
Tue 07 th 14.30-16.30	Trends in Biomolecular Sciences - organized by S. Sacchi (0.25 CFU) "Enzymatic assemblies and their role in cellular metabolism"
	Exploring the Regulation of de novo Purine Biosynthesis in Cancer Cells Anthony M Pedley – Pennsylvania State University, USA (by remote)
	Human serinosome and serine metabolism Loredano Pollegioni – Università degli Studi dell'Insubria
Mon 13 th 15.30-17.30	"Endometrial carcinomas 2024: tumorigenic mechanisms, clinico-pathological and molecular classification" - (0.5 CFU)
	Antonio Travaglino e Daniela Furlan, Università degli Studi dell'Insubria art of <u>the inter-doctoral activities</u> organized in collaboration with the PhD in slational Medicine and will provide credits for the Trends in Biomedical Sciences
Wed 15 th 10.30-12.30	Trends in Biomolecular Sciences - organized by L. Pollegioni (0.5 CFU) "Synthetic approaches to novel inhibitors targeting human D-aspartate oxidase (hDASPO)"
10.30-11.00	Introduction about hDASPO and its role in neuronal cells Loredano Pollegioni, Università degli Studi dell'Insubria Structural insights of hDASPO
	Marco Nardini, Università degli Studi di Milano
11.00-11.30 11.30-12.30	Design of Olanzapine-based hDASPO inhibitors Synthetic approaches to Olanzapine-based hDASPO inhibitors Andrea Citarella – Università degli Studi di Milano
14.30-16.30	"Biological Evaluation of the Selected Inhibitors"
14.30-15.00	Evaluation of the inhibitory activity and selectivity through enzymatic assays Valentina Rabattoni, Università degli Studi dell'Insubria
15.00-16.30	Structural biology approach as future perspective and practical demonstration Miriam Cavinato, Università degli Studi di Milano
June	
Thu 06 th 14.30-16.30	Trends in Biomolecular Sciences - organized by G. Bernardini (0.25 CFU) "The origins of Alzheimer's Disease, the mechanisms and the risk factors" Lang Tran, Heriot Watt University, Edinburgh (UK)
Tue 11 th 11.00-12.30	Transversal skills - Module B - (0.5 CFU)

14.00-15.30	"Science dissemination through new media" Ivano Eberini, Università degli Studi di Milano, La Statale
Wed 26 th 10.30-13.30	Transversal skills – Module B - (0.5 CFU)
	"Introduction to R free software environment for statistical computing and graphics of biological data" – organized by Antonello Montagnoli Enrique Andivia, Department of Biodiversity, Ecology and Evolution, Faculty of Biological Sciences, Universidad Complutense de Madrid (by remote)
Fri 28 th 14.30-16.30	Transversal skills – Module A: Information Literacy, Digital Literacy - (0.25 CFU) "Scientific databases - How to use academic resources and services for the
	bibliographic research"
	Letizia Pelucchi, Università degli Studi dell'Insubria
July	
Wed 31 st 9.00-11.00	Transversal skills – Module B - (0.5 CFU)
	"Data Science Essentials for Life Sciences: A Hands-On Approach" (with practical activities)
	Heather Bondi, Università degli Studi dell'insubria
October	
Thu 3 rd to be defined	Autumn seminar session – XXXVIII cycle PhD students
Thu 10 th 14.30-16.30	Transversal skills - Module C- (0.25 CFU) – organized by S. Sacchi "How to make the most of your professionalism: former PhD students talk about their experience, inside and outside Academia"
Thu 24 th 14.30-16.30	Federico Moroni Nicolò Baranzini Transversal skills - Module C (0.25 CFU) – organized by P. Campomenosi "The road to scientific independence: the first grant" Expanding single-cell ad spatial technologies to bridge genotype with phenotypes Ivan Raimondi, New York Genome Center (by remote)
Mon 28 th 14.30-16.30	Trends in Biomolecular Sciences (0.25 CFU) – organized by F. Marinelli, V. Orlandi & F. Berini Metagenomics and its potential for investigating microbial diversity "to be defined"
	Mario Muscarella, Institute of Arctic Biology and Department of Biology and Wildlife, University of Alaska Fairbanks, USA "to be defined" Pamela Principi, Dipartimento ambiente costruzioni e design, SUPSI-Scuola Universitaria Professionale della Svizzera Italiana, Mendrisio, CH "to be defined" Gianluca Corno, Molecular Ecology Group, Water Research Institute, CNR, Verbania