Name **e-mail address** **Teaching activity**	**Location** **Topic of the internship** **Further information**	**Available positions**
Catia Arbizzani	Bologna Ciamician	1
catia.arbizzani@unibo.it Biosensors	Electrochemical Biosensors	
	Contact details other than UNIBO	
	Available as academic tutor and thesis supervisor for those who will find a project of their interest on Electrochemical Biosensors or related topics in Italy or abroad	
Elisa Michelini	Bologna Ciamician	1
elisa.michelini8@unibo.it Biosensors	Optical Biosensors. Development of luminescent and colorimetric biosensors and smartphone-based portable analytical devices for analytes of clinical and environmental interest	
Giovanni Capranico	Bologna FaBiT	1 to 2
giovanni.capranico@unibo.it Genomics of Diseases – Molecular Mechanisms of Diseases	DNA repair, non-canonical DNA structures and immune response; RNA structures; 3D chromatin structure https://site.unibo.it/capranico-lab/en	
	Contact details other than UNIBO	
	• CABIMER, Seville, Spain; • Erasmus Cancer Center, Rotterdarm, The Netherland; • Karolinska Institute, Stoccolma, Svezia; • Toulouse Cancer Center, INSERM, Tolosa, Francia.	

Fabrizio Ferré	Bologna FaBiT	enquire
fabrizio.ferre@unibo.it Genomics of Diseases – Applied Genomics	Application and development of computational methods for the analysis of the functional and regulatory roles of non-coding RNAs	

Santi Spampinato/Monica Baiula	Bologna FaBiT	1
santi.spampinato@unibo.it; monica.baiula@unibo.it Pharmacotherapy of Biological Drugs	Characterization of innovative integrin-selective ligands to develop novel anti-inflammatory, antiviral and anticancer agents. Development of cell co-culture models to investigate novel integrin ligands as potential innovative therapeutics; anticancer effects of PUFAs.	
	Contact details other than UNIBO	
	• Dr. Elisa Martella, ISOF-CNR, Bologna; innovative approach for drug delivery for cancer therapeutics. • Dr. Carla Ferreri, CNR, Bologna; lipidomic and cell membranes: chemical-biological approach for precision nutraceuticals. • Dr. Giovanna Damia, Istituto Mario Negri, Milano; ovarian cancer preclinical models. • Dr. Antonino Asaro, EPFL, Losanna; Spatial and functional characterization of neuronal lipids. • Prof. Pier Paolo D'Avino, University of Cambridge, UK; study of the mechanisms and signalling pathways that control the mechanics and regulation of cell division in normal and cancer cells.	

Santi Spampinato/Andrea Bedini	Bologna FaBiT	1
santi.spampinato@unibo.it; andrea.bedini@unibo.it Pharmacotherapy of Biological Drugs	Characterization of innovative, functionally selective opioid ligands to develop more effective and safer analgesics. Molecular pathway analysis of opioid receptor expression and activation in primary cultures of neuronal cells and under basal conditions and after exposure to CNS drugs and other stimuli.	
	Contact details for other research groups	

	• Prof. Stefano Ferroni, University of Bologna; functional characterization of in vitro glial cell models to study neuroinflammation and neurodegeneration. • Dr. Alberto Caligiana/Prof. John Sedivy, Brown University, Providence RI (USA) Single-cell assays of telomere-initiated senescence, signaling pathways between dysfunctional telomeres and the cell cycle	
Santi Spampinato	Contact details other than UNIBO	enquire
santi.spampinato@unibo.it; Pharmacotherapy of Biological Drugs	• Prof. Andrea Banfi, Cell and Gene Therapy Department of Biomedicine, Basel Development of novel therapies for ischemic diseases, and controlled vascularization regenerative medicine applications • Prof. Jonathon Pines, The Institute of Cancer Research, London Study of how the machinery that controls cell division is regulated in space and time. • Dr. Cathrine Lindon, Dept. Pharmacology, Univ. Cambridge, Cambridge UK. Cancer and Infectious Diseases, with focus on Ubiquitin, APC/C, proteolysis, Aurora kinase, mitotic exit, cell fate	
Giorgio Gallinella	Bologna FaBiT	1 to 2
giorgio.gallinella@unibo.it Antiviral & Antimicrobial Strategies	Parvovirus B19 as a model system: genetics, virus-cell interactions, development of antiviral compounds, viral vectors	
	Contact details other than UNIBO	
	Available as an academic tutor and thesis supervisor, on a topic also chosen independently in the microbiological field, after an interview and direct agreement	
Matteo Masetti	Bologna FaBiT	enquire
matteo.masetti4@unibo.it Biomolecular Simulations for Drug Design - Module 2	Modelling and simulation of drug-target complexes Possibility to carry out part of the thesis abroad (to be defined)	

Patrizia Brigidi	Bologna DIMEC	2
patrizia.brigidi@unibo.it Industrial Processes for Recombinant Drugs	Role of human gut microbiome in the onset and progression of different disorders; development of microbiome-based therapeutic approaches	
	Contact details other than UNIBO	
	• Maria Rescigno, Humanitas, Milano, Italia • Philppe Langella, Micalis Institute, INRA, Jouy en Josas, France; • Adele Costabile Roehampton, London, UK;	
Anna Maria Porcelli	Bologna FaBiT	2
annamaria.porcelli@unibo.it luisa.iommarini2@unibo.it Molecular Interaction Networks	Survival mechanisms in tumor cells defective for oxidative phosphorylation; Identification and characterization of novel assembly factors of respiratory complex I; Molecular regulators of ovarian cancer cells metabolism.	
	Contact details other than UNIBO	
	• Prof. Gyorgy Szabadkai, Department of Cell and Developmental Biology, Consortium for Mitochondrial Research, University College London, London, UK • Dr. Angelo de Milito, Sprint Biosciences, Sweden • Prof. Diego De Stefani, Department of Biomedical Sciences, University of Padova • Prof. Paolo Pinton, Department of Medical Sciences University of Ferrara • Dr. Matteo Calassanzio, RENOLAB GLP, Bologna • Dr. Manuela D'ALESSANDRO, Genetics and Neurobiology of C. elegans, Institut NeuroMyoGène,CNRS UMR5310 | INSERM U1217, Université Claude Bernard Lyon 1 • Dr. Cristina Munoz Pinedo, Bellvitge Biomedical Research Institute (IDIBELL), Barcelona, Spain	
Manuela Bartolini	Bologna FaBiT	1

manuela.bartolini3@unibo.it Analytical Challenges In The Biopharmaceutical Field	Overexpression and functional characterization of orphans G-protein coupled receptors (Thesis at the Medical University of Lublin, Poland. Prof. Krzysztof Jozwiak within Erasmus + exchange program or departmental grants) Research options at the University of Coimbra, Portugal (within Erasmus + exchange program or funding through departmental grants)	
	Contact details other than UNIBO	
	Prof. Krzysztof Jozwiak, Medical University of Lublin, Poland. Prof. Alexandrina Ferreira Mendes, University of Coimbra, Portugal	
Roberto Tonelli	Bologna FaBiT	2
roberto.tonelli@unibo.it Safety Pharmacology and Toxicology of Biopharmaceuticals	Preclinical evaluation of biotechnological oncological drugs	
	Contact details other than UNIBO	
	Preclinical evaluation of biotechnological oncological drugs c/o BIOGENERA SpA, Ozzano Emilia (BO) Prof. Oscar Della Pasqua, Clinical Pharmacology, University College of London, UK	2
Giampaolo Zuccheri	Bologna FaBiT	2
giampaolo.zuccheri@unibo.it Nanobiotechnologies	1. Nanomechanical characterization of eukaryotic cells 2. Nucleic acids nanostructures and their applications in cells 3. Development of 3D cell culture methods for testing pharmaceuticals 4. Development of point-of-care assays for the detection of circulating biomarkers	
	Contact details other than UNIBO	

- Univ. of Leeds (UK) - Prof. Matteo Castronovo. Design of nucleic acids nanostructures and their biomedical applications. The specific project needs to be defined with the UK teacher.
- Istitute of nanobiophotonics, Leibnitz Institute, Jena, Germany - Dr. Wolfgang Fritzsche. Biosensors based on plasmonic nanoparticles.
- Ecole Polytechnique Federal, Lausanne - Prof. Carlotta Guiducci. Separation and characterization of extracellular vesicles and nanostructures with microfabricated devices. Project to be defined with the Swiss teacher in case of interest
- Univ. of Edinburgh (UK) - Prof. Katherine Dunn. 1. Bionanotechnology for energy applications; 2. Using engineered DNA molecules for understanding, diagnosing or treating diseases

Isabella Orienti	Bologna FaBiT	1
isabella.orienti@unibo.it Nanoformulation of Biologicals	Nanoencapsulation of Retinoids for Antitumor Therapy	
Paolo Blasi	Bologna FaBiT	1
p.blasi@unibo.it Nanoformulation of Biologicals	Functionalized Nanoparticles for Brain Targeting	
Cristiana Boi	Bologna, DICAM	1
cristiana.boi@unibo.it Industrial Biotechnological Applications	Isolation of extracellular vesicles and investigation of their potential use as drug delivery vectors.	
Francesco Alviano	Biotech Company: - Stem Sel® S.r.l. (University of Bologna spin-off); - CellDynamics	1
francesco.alviano@unibo.it Stem Cells and 3D Organoid System	Application of amniotic membrane stem cells for in vitro pancreatic islet recreation	

Stefano Iotti	Bologna FaBiT	1
stefano.iotti@unibo.it Advanced Techniques for the Study of Metabolism In Vivo	A) Study of the anti-proliferative and reverting activity of the multiple resistance to drugs of phytocomplexes and new synthetic molecules. B) Synthesis and characterization of new nanoparticles for drug delivery. C) 3D cultures of bone cells on biocompatible materials.	
	Contact details other than UNIBO • CellDynamics - Bio Eco Active S.r.l. • LEBSC S.r.l. • Università Milano,Dipartimento di Scienze Biomediche e Cliniche L. Sacco • Politecnico di Milano, Dipartimento di Fisica • CNRS Marseille: Centre de resonance Magnetique Biologique et Medicale • University of Iceland, Biomedica Center, Institute of Biomedical and Neural Engineering, Reykjavik University	
Rossella Breveglieri	Bologna DIBINEM	1
rossella.breveglieri@unibo.it Neurobiotechnology	Studying the cerebral functions using transcranial magnetic stimulation	
Stefano Salvioli	Bologna DIMES	1
stefano.salvioli@unibo.it Advanced Immunology	Role of GDF15 in aging and age-related diseases and its connections with lipid metabolism and perilipins	
Gloria Ravegnini	Bologna FaBiT	1
gloria.ravegninni2@unibo.it Pharmacotherapy of Biological Drugs	Evaluation of circulating / exosomal miRNAs in ovarian cancer; Identifying DNA damage repair-related vulnerabilities in leiomyosarcoma Genome editing to study genetic alterations in endometrial cancer Analysis of new molecules as novel therapeutic options in gastrointestinal stromal tumors	

	Contact details other than UNIBO • Prof Fletcher, Department of Pathology, BWH, Harvard Medical School, Boston, MA, US • Prof Serrano Sarcoma Translational Research Group, Vall d'Hebron Institute of Oncology (VHIO); Barcelona, Spain • Prof Trond, Molecular Pathology Group (Gap junction team) VHIR Vall d'Hebron Research Institute, Barcelona, Spain • Prof Bakr, Division of Cancer Epigenomics, German Cancer Research Center (DKFZ), Heidelberg, Germany, • Prof voorberg, Department of Molecular and Cellular Hemostasis, Sanquin Research and Landsteiner Laboratory, Amsterdam UMC, University of Amsterdam Plesmanlaan 125 • Prof Altmeyer, Department of Molecular Mechanisms of Disease, University of Zurich, Zurich, Switzerland. • Prof Wennerberg, Biotech Research & Innovation Centre (BRIC), University of Copenhagen, Denmark	
Patrizia Fattori	Bologna DIBINEM	enquire
patrizia.fattori@unibo.it Neurobiotechnology	Studying the cerebral functions in non-human primates using electrophysiology and neuroanatomy. Studying the kinematics of the human movement with motion tracking methods.	