Name	Location	Available
e-mail address	Topic of the internship	positions
Teaching activity	Further information	
Catia Arbizzani	Bologna Ciamician	1
<u>catia.arbizzani@unibo.it</u> 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	Optical Biosensors.	
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
<u>giovanni.capranico@unibo.it</u> Genomics of Diseases –	DNA repair, non-canonical DNA structures and immune response; RNA structures; 3D chromatin structure	
Molecular Mechanisms of Diseases	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	
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	
Monica Baiula	Bologna FaBiT	1
<u>monica.baiula@unibo.it</u> Pharmacotherapy of Biological Drugs	Characterization of innovative integrin-selective ligands to develop novel anti-inflammatory, antiviral, and anticancer agents. Development of co-culture cell models to investigate novel integrin ligands as potential	
	Innovative therapeutics. RNA-based therapeutics to mitigate microglia activation contributing to secondary neuronal damage in neurodegeneration.	
	Contact details other than UNIBO	enquire
	 Dr. Eliza Martalla, ISOE CNP, Palagna; innovativa approach for drug delivery for 	
	 Dr. Elisa Martella, ISOP-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. Prof. Andrea Banfi, Cell and Gene Therapy Department of Biomedicine, Basel Development of novel therapies for ischemic diseases, and controlled vascularization regenerative medicine applications 	

andrea.bedini@unibo.it Pharmacotherapy of Biological Drugs	Characterization of innovative, functionally selective opioid ligands to develop more effective and safer therapeutics for pain, addiction and related comorbidities. Molecular pathway analysis of opioid receptor expression and activation in primary cultures of neuronal cells to develop Quantitative Systems Pharmacology platforms. Study of TRL3 and TLR4 effects on neuroinflammation and neuroglial interactions at the level of intracellular signal transduction, modulation of gene expression.	
	Contact details for other research groups	enquire
	 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 	
	 Prof. Jonathon Pines, The Institute of Cancer Research, London Study of how the machinery that controls cell division is regulated in space and time. 	
Giorgio Gallinella	Bologna FaBiT	1
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, upon interview and direct agreement	
Matteo Masetti	Bologna FaBiT	enquire
matteo.masetti4@unibo.it	Modelling and simulation of drug-target complexes	
Biomolecular Simulations for Drug Design - Module 2	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
Anna Maria Porcelli annamaria.porcelli@unibo.it luisa.iommarini2@unibo.it Molecular Interaction Networks	Bologna FaBiT 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 and chemoresistance. UNIBO collaborators: - Prof. Giuseppe Gasparre, DIMEC - Prof. Caterina Garone, DIMEC - Dr. Leonardo Caporali, DIBINEM	2

•	Prof. Diego De Stefani, Department of Biomedical Sciences, University of Padua
•	Prof. Sirio Dupont, Department of Molecular Medicine, University of Padua

- Prof. Paolo Pinton, Department of Medical Sciences, University of Ferrara
- Prof. Andrea Morandi, Dipartimento di Scienze Biomediche, Sperimentali e Cliniche, University of Florence
- Dr. Matteo Calassanzio, RENOLAB GLP, Bologna
- Prof. Gyorgy Szabadkai, University College London, Department of Cell and Developmental Biology, Consortium for Mitochondrial Research, London, UK
- Dr. Micol Falabella, University College London, Department of Neuromuscular Diseases, London, UK
- Dr. Angelo de Milito, Sprint Biosciences, Sweden
- 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
- Dr. Gloria Brea-Calvo, CABD CENTRO ANDALUZ DE BIOLOGÍA DEL DESARROLLO, Universidad Pablo de Olavide, Seville, Spain
- Prof. Christian Frezza, CECAD Cologne Excellence Cluster on Aging and Aging-Associated Diseases, Cologne, Germany
- Dr. Arcangela Iuso, Computational Health Center Institute of Neurogenomics, Helmholtz Zentrum München, Germany

Manuela Bartolini Bologna FaBiT		1
<u>manuela.bartolini3@unibo.it</u> 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)	
	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
<u>roberto.tonelli@unibo.it</u> 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)	2
	Prof. Oscar Della Pasqua, Clinical Pharmacology, University College of London, UK	
Giampaolo Zuccheri	Bologna FaBiT	2
giampaolo.zuccheri@unibo.it Nanobiotechnologies	 Nanomechanical characterization of eukaryotic cells Nucleic acids nanostructures and their applications in cells Development of 3D cell culture methods for testing pharmaceuticals 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
<u>p.blasi@unibo.it</u> Nanoformulation of Biologicals	Functionalized Nanoparticles for Brain Targeting	
Cristiana Boi	Bologna, DICAM	1
<u>cristiana.boi@unibo.it</u> 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.I. (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 lotti	Bologna FaBiT	1
stefano.iotti@unibo.it	A) Study of the anti-proliferative and reverting activity of the multiple resistance to drugs of	
Study of Metabolism In Vivo	 phytocomplexes and new synthetic molecules. B) Synthesis and characterization of new nanoparticles for drug delivery. C) 3D cultures of bone cells on biocompatible materials. 	

•	CellDynamics ·	- Bio	Eco	Active S.r.	١.
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- 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 DIMEC	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
<u>gloria.ravegninni2@unibo.it</u> 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.	