

IIT RESEARCH MATRIX

UPDATE: NOV 2018

Legend:

- Main Research Domain
- Interaction

RESEARCH LINE	PRINCIPAL INVESTIGATOR	ROBOTICS	NANOMATERIALS	LIFETECH	COMPUTATIONAL SCIENCES
Human-Robot Interfaces and Physical Interaction	Arash Ajoudani	●			
Quantum Materials Theory	Sergey Artyukhin		○		●
IIT@Harvard	John Assad			●	
Smart Materials	Athanassia Athanassiou		●	○	
D3 PharmaChemistry	Tiziano Bandiera			●	
Synaptic Plasticity of Inhibitory Networks	Andrea Barberis			●	
Event-Driven Perception for Robotics	Chiara Bartolozzi	●			
Artificial Touch in Soft Biorobotics	Lucia Beccai	○	●		
Cognition, Motion and Neuroscience	Cristina Becchio	○		●	
Neuroscience and Smart Materials	Fabio Benfenati		○	●	
Microtechnology for Neuroelectronics	Luca Berdondini			●	

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Soft Robotics for Human Cooperation and Rehabilitation	Antonio Bicchi	●			
Non coding RNAs in Physiology and Pathology	Irene Bozzoni			●	
Printed and Molecular Electronics	Mario Caironi		●		
Advanced Robotics	Darwin Caldwell	●			
Local Micro-environment and Brain Development	Laura Cancedda			●	
Visual and Multimodal Applied Learning	Barbara Caputo				●
Computational and Chemical Biology	Andrea Cavalli				●
Smart Bio-Interfaces	Gianni Ciofani		●	○	
Computational Nanoplasmonics	Cristian Ciracì				●
2D Materials Engineering	Camilla Coletti		●		
Plasmon Nanotechnologies	Francesco De Angelis		●	○	
Rehab Technologies - INAIL-IIT lab	Lorenzo De Michieli	●		○	
Neurobiology of miRNA	Davide De Pietri Tonelli			●	
Nanotechnologies for Humans and Biosystems	Massimo De Vittorio		●	○	

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Molecular Modeling and Drug Discovery	Marco De Vivo				●
Nanotechnology for Precision Medicine	Paolo Decuzzi		●	○	
Visual Geometry and Modelling	Alessio Del Bue	○			●
Nanoscopy & NIC@IIT	Alberto Diaspro		●	○	
Multiscale Brain Communication	Luciano Fadiga			●	
Optical Approaches to Brain Function	Tommaso Fellin			●	
Electron Crystallography	Mauro Gemmi		●	○	
Unit for Visually Impaired People	Monica Gori	○		●	
Functional Neuroimaging	Alessandro Gozzi			●	
Molecular Medicine	Benedetto Grimaldi			●	
Non-coding RNAs and RNA-based therapeutics	Stefano Gustincich			●	
Neuroscience and Behaviour	Giandomenico Iannetti			●	○
Optoelectronics	Roman Krahne		●		
Nanomaterials for Energy and Lifescience	Guglielmo Lanzani		●	○	
NanoChemistry	Liberato Manna		●		

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Bioinspired Soft Robotics	Barbara Mazzolai	●			
Asymmetric Catalysis and Photochemistry	Paolo Melchiorre		●		
iCub	Giorgio Metta	●		○	
IIT@MIT	Giorgio Metta				●
Dynamic Interaction Control	Giorgio Metta	●			
Pattern Analysis and Computer Vision	Vittorio Murino	○			●
Humanoid Sensing and Perception	Lorenzo Natale	●			
Bio-Logic Materials	Paolo Netti		○	●	
Genomic Science	Francesco Nicassio			●	○
Neural Computation	Stefano Panzeri				●
Genetics of Cognition	Francesco Papaleo			●	
Atomistic Simulations	Michele Parrinello				●
Graphene Labs	Vittorio Pellegrini		●		
Nanomaterials for Biomedical Applications	Teresa Pellegrino		●	○	
Advanced Materials for Optoelectronics	Annamaria Petrozza		●		

RESEARCH LINE	PRINCIPAL INVESTIGATOR	ROBOTICS	NANOMATERIALS	LIFETECH	COMPUTATIONAL SCIENCES
Systems and Synthetic Biology	Fabrizio Pirri		●		
Advanced Materials for Sustainable Future Technologies	Fabrizio Pirri		●		
Multifunctional Neural Interfaces with deep-brain regions	Ferruccio Pisanello		●	○	
Theory and Technology of 2D Materials	Marco Polini				●
Nanobiinteractions & Nanodiagnostics	Pier Paolo Pompa		●	○	
Computational Statistics and Machine Learning	Massimiliano Pontil				●
D3 Validation	Angelo Reggiani			●	
Computational mOdelling of NanosCaIE and bioPhysical systems	Walter Rocchia				●
Nanotechnologies for Neurosciences	Giancarlo Ruocco		○	●	
Robotics Brain and Cognitive Sciences	Giulio Sandini	●		○	
Tissue Electronics	Francesca Santoro		●	○	
Dynamic Legged Systems	Claudio Semini	●			
Synthetic and Systems Biology for Biomedicine	Velia Siciliano			●	
Computational Medicine	Sauro Succi		○		●

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Polymers and Biomaterials	Nicola Tirelli		●		
Neuromodulation of Cortical and Subcortical Circuits	Raffaella Tonini			●	
Humanoids & Human Centered Mechatronics	Nikolaos Tsagarakis	●			
Genetics and Epigenetics of Behavior	Valter Tucci			●	
Molecular Microscopy and Spectroscopy	Giuseppe Vicidomini		●	○	
Social cognition in human-robot interaction	Agnieszka Wykowska	●		○	

FACILITY	FACILITY COORDINATOR	ROBOTICS	NANOMATERIALS	LIFETECH	COMPUTATIONAL SCIENCES
Electron Microscopy	Rosaria Brescia		○	○	
Electronic Design Laboratory	Marco Crepaldi	○	○	○	
Analytical Chemistry and In Vivo Pharmacology	Paolo Decuzzi			○	
Neurofacility	Luisa Franco			○	
Animal Facility	Monica Morini			○	
Materials Characterization	Mirko Prato		○		

FACILITY	FACILITY COORDINATOR	ROBOTICS	NANOMATERIALS	LIFETECH	COMPUTATIONAL SCIENCES
Mechanical Workshop	Roberto Puddu	○			
Clean Room	Andrea Toma		○		