



UNIVERSITÀ DI PISA



CV of Giovanni Vozzi



Affiliation

University of Pisa
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Education and training

Laurea (Master Degree equivalent) in Electronic Engineering, at the University of Pisa
PhD in Bioengineering, at the Politecnico of Milan

Work experiences (a list of no more than 10 lines)

Full Professor of Bioengineering at the Department of Information Engineering, University of Pisa
Director of Biofabrication Lab at Research Center “E. Piaggio”, University of Pisa
Visiting Professor all’IPL-Centro Para o desenvolvimento rapido e sustentado de produto –Instituto Politecnico de Leiria, Leiria, Portugal
Adjunct Associate Professor in Biomedical Engineering and Medical Physics, at the School of Chemistry, Physics and Mechanical Engineering at the Faculty of Science and Engineering of Queensland University of Technology, Australia

Teaching activities

Current (2016-2021)

President of Bachelor’s and Master Degree in Biomedical Engineering and Bionics Engineering from 2018 to present

Instructor of the following courses:

Sede Dipartimento Economia e Management
Via Ridolfi 10– 56124 Pisa
Tel. +39 050 2217303
Email segret_cirhta@dam.unipi.it
Web www.cirhta.unipi.it



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- 1) Prostheses
- 2) Bioengineering Principles for the design and development of clinical phantoms
- 3) Lab Training
- 4) Micro and Nano Systems
- 5) Neural Tissue Engineering
- 6) Artificial Organs
- 7) Bioengineering Principles for the design and development of 3D in vitro models in physiological and/or Pathological conditions

Past

President of Bachelor's and Master Degree in Biomedical Engineering and Bionics Engineering from 2015 to 2018

Instructor of the following courses:

- 1) Chemical Bioengineering
- 2) Prostheses
- 3) Micro and Nano Systems
- 4) Laboratory of Bioengineering

Research activity

Research activity mainly focused on the following research topics:

1. development of new micro- nano- fabrication techniques for applications to Biomedical Engineering and in particular to Tissue Engineering, biosensors and actuators;
2. study of principal cell activities on polymeric microfabricated structures;
3. development of bioreactors in order to mimic the physiological environment for cell or tissue culture;
4. mechanical, chemical and cell characterisation of new biomaterials for applications to biomedical area and Tissue Engineering;
5. design of new functionalisation methodologies of biomaterials to improve the cell adhesion, proliferation and differentiation;
6. project and realisation of organic transistors that should be interfaced to textile substrates to monitor biological signals such as ECG, EMG, etc;
7. development of in-silico cell models through the fusion of Automatic Controls principles and of cell biochemical reactions;
8. acquisition and processing of electromiographic signal on rats in order to evaluate the nerve regeneration after a polymeric scaffold implant as novel neurosurgical techniques

Research project participation and leadership:

- 1) Responsible of the following research projects:
 - a. GIOTTO "Active aGelng and Osteoporosis: The next challenge for smarT nanobiOmaterials and 3D technologies" project number: 814410 —H2020-NMBP-TR-IND-2018-202
 - b. _ University of Pisa project PRA_2018_68 "CRISP/Cas9: Gene Editing to study the genic function in physiological and pathological condistions".
 - c. LeatherUP grant of Tuscany Region based on Industry program
 - d. TRITONE :SmarTbioactive peRsonalised and Implantable 3DprinTed scaffold for tendOn regeneration, grant of Tuscany Region based on Health program
 - e.

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- 2) Principal investigator in the following research projects:
- a. M-ERA.NET Call 2016 – BIOMEMBRANE project.
 - b. MANUNET III call 2017 – MNET17/NMAT-0060 KEARAPACK: novel integrated approach for the reduction, recycling and reuse of poultry feathers by keratins based packaging manufacturing. European project
 - c. TRITONE :SmarTbioactive peRsonalised and Implantable 3DprinTed scaffold for tendOn regeneration, grant of Tuscany Region based on Health program
 - d. MIT-UNIUPI project “ An In Vitro Model of Pyelonephritis”

A list of the most significant international publications can be found at:

- On the system www.scopus.com:
 - <http://www.scopus.com/authid/detail.uri?authorId=12785326500>
- On the system arpi.unipi.it:
 - <https://arpi.unipi.it/browse?type=author&order=ASC&rpp=30&authority=rp00351#.YCTe1s9KiqB>