

## **MICHELE MIRAGOLI, PhD (Cremona 19/06/1973)**

Nationality and Citizenship: Italian

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### **PRESENT POSITIONS**

Associate Professor of Medical Technology (MED/50) at University of Parma, Italy

Honorary Research Associate at IRGB-CNR and Humanitas Mirasole SPA

### **WORK EXPERIENCE**

01/2012-Now. Associate Researcher in Molecular Cardiac Electrophysiology- P.I. Humanitas Clinical and Research Center

11/2016-11/2019. Tenured-track Assistant Professor – RTDb Applied Medical Technology, MED/50 Department of Medicine and Surgery , University of Parma

03/2016 -11/2016. Group Leader. Department of Clinical and Experimental Medicine, University of Parma

01/2012 – 12/2015. Group Leader – P.I. CERT, University of Parma, 43124,

04/2008-12/2011. Research associate Imperial College London, SW26LY – London (United Kingdom)

02/2003-03/2008. Postdoctoral Researcher Institute of Physiology, University of Bern, Switzerland

### **EDUCATION AND TRAINING**

29/04/2019 ASN Full Professor in Medicine 06/N1 – MED/50 -Applied Scientific Medical Technologies.

14/06/2014ASN Associate Professor in Medicine 06/N1 – MED/50 -Applied Scientific Medical Technologies.

11/03/2003 PhD in Systemic Physiopathology University of Parma (IT),

04/2000 Post-master training for Italian Biological Admit University of Parma (IT), Dept. of Bioscience

03/1999 Master Degree in General Biology University of Parma (IT)

07/1993 Undergraduate School in Electronic and Computer Science Industrial Engineer

### **HONOUR AND AWARDS**

2014: Best Oral Presentation at the 1st NANODAY workshop EXPO2015, Parma, Italy.

2014-now: Honorary Research Associate at National Research Council, IRGB institute CNR

2011-2021: Honorary Research Associate at Imperial College London, National Heart and Lung Institute

2011: Imperial College Rector Awards for the impressive achievements of 2010.

2009: Italian Young Investigator Research Prize, from the Italian Society of Cardiovascular Research.

2008: Winner of the Swiss Cardiovascular Biology Prize, young investigator, Swiss Society of Cardiology

2007: 1st place Best Poster, Gordon Research Conference, Cardiac Arrhythmia Mechanisms, Ventura, (USA).

2004: Asher-Hess Prize, young investigator award, Swiss Physiological Society

2001 Young Research award, from University of Parma

2000 Winner of 12 months scholarship from University of Parma for advanced training period in foreign country

### **TEACHING AND SUPERVISION**

2016-2022: Professor of Applied Medical Technology for the following courses:

Degree of Audioprothetic science techniques, course of Ear Physiology, - 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, year

Degree of Environment and Workplace Prevention Techniques, Course of Health Promotion 3<sup>rd</sup> year

Degree of Biomedical Laboratory Techniques, course of risk mitigation techniques in laboratories 1<sup>st</sup> year

2019-2022: Supervisor of 2 Postdoctoral fellows, University of Parma, IT Supervisor of 1 Postdoctoral fellow,

Humanitas Research Center, Rozzano, IT , Co-supervisor of 2 PhD student, University of Verona, IT

Co-Supervisor of 1 PhD student BHF and BBSRC, Imperial College, London, UK, SuperRvisor of 1 PhD

student, University of Parma, IT, Supervisor of 2 MSc students University of Parma, IT

### **ACADEMIC COMMITTEE**

2016- now: Doctorate School Member of Translational Medical Surgical and Science board, University of Parma, Department of Medicine and Surgery, University of Parma

2018-2021: Member of the Research Scientific Board “06” (Medicine), University of Parma

2020-now: Member of the Research Scientific Committee at the Department of Medicine and Surgery, University of Parma

2017-now: Ph.D. degree Committee ETH Zurich (CH)

2016-now: Ph.D degree committee in Cardiovascular Science University of Verona

## **GRANTS**

### ACTIVE:

2022-2025: AVATHEART: YIRG: Organoids on chip for functional HTS of cardiac inherited arrhythmias. Source of funding: University of Parma YIRG. . Role: P.I. Panel: LS4\_7

2021-2023: PR-4D-EMA: Novel molecular probes for 3D sensing of electromechanical activity in cardiac tissue. Source of funding: University of Parma FIL\_INC\_A1\_TERENZIANI\_COFIN Role: Co-P.I.

2021-2023: NANOCORONA: Development of coadjuvant inhalable phytocomplex nanoparticles for Coronavirus-2019 (Covid19) treatment. Source of funding: QBio system Role: P.I.

2021-2023: ELEGANT-AF: Electrical signals and Genome data integration through Artificial Intelligence in patients undergoing Atrial Fibrillation Ablation. Source of funding: 5 permille Humanitas. Role: Co-P.I. Panel: LS4\_7

2020-2022: FUTURE-NHP: Flexible and User-defined Technologies for Unconstrained neural Recording Experiments in Non-Human Primates. Source of funding: ERC Proof of Concept 2020, Role: Collaborator (20%). Panel: LS5\_1

2019-2022: SLEEP@SA: Salute sul Lavoro e Prevenzione delle Obstructive Sleep Apnea: un'epidemia silenziosa Source of funding: BRIC INAIL 2018. Role: WP Leader Panel: LS4\_7

2019-2022: ERAPERMED: LVAD-STRAT : Stratification of heart failure patients for cardiac recovery upon cardiac unloading by left ventricular assist device therapy: addressing the molecular, epigenetic, and proteomic changes associated with reverse cardiac remodeling: Role: co-P.I. Humanitas-UNIPR Unit. Source of Funding: H2020 to FRRB Panel: LS4\_7

### PAST FUNDED

2016-2020 : CUPIDO: HORIZON 2020 G.A.: 720834. Role: co-P.I.

2016-2018: miRCaP. ERC Proof of Concept miRCaP. Role: collaborator.

2013-2018 Flagship Project Nanomax.: Role: Co-applicant and WG coordinator CNR Italy –

2012-2015 Young Research Grant GR-2009-1530528 Role: P.I. , Source of funding: MOH and INAIL (co-funding).

2014-2017: Young Research Grant GR-2011-02347743. Role: co-investigator Source of Funding: MoH

2014: European Translation Access Project QualityNano. TAP-225 Role: P.I. and coordinator of the subproject Source of Funding: FP7 –Capacities Program

2010-2015 Grant WT-P24460 Role: WG coordinator and co-applicant Source of funding: Wellcome Trust

## **INVITED LECTURES AND ORAL PRESENTATION (selection)**

2019: Invited speaker at Cardiac Mechanoelectric coupling meeting. Freiburg (DE), 4-7 September

2019. Invited speaker at 1 convegno SIRTEPS- Società Italiana per la ricerca Traslazionale e le Professioni Sanitarie. Roma, Università la Sapienza. Stati Generali Della Ricerca, Piacenza, 31/05-01/06, Piacenza, IT.

2018: Invited speaker at BIORIMA 1st conference, Turin , 22-23 March. 2018. INDAM,. Mathematical and numerical models in cardiovascular system. Rome 16-20 April 2018.

2017: Invited speaker at Symposium: Novel tools to investigate cellular physiology at the nanoscale. Ruhr-Universität Bochum. 2017 International Conference on Work Environment and Cardiovascular Diseases. Varese

2015: Invited speaker at Italian Society of Cardiovascular Research, 26-28/11/2015, Imola (IT). 2015 Invited speaker at QualityNano research meeting, 14-18 July 2015, Heraklion (Crete)

2013 Invited speaker at MEC2013 , 6th International Workshop on 'Cardiac Mechano-Electric Interactions and Arrhythmias' ,Oxford. Chairman at Gordon Research Conference, Cardiac Arrhythmia Mechanisms, 17-22 Ventura, California,

2011 Invited Speaker to the American Heart Association, Scientific Session, Orlando 11-16 Nov 2011 USA

2009. Invited speaker at Swiss Cardiovascular Biology Prize at Swiss Society of Cardiology

2007 Session chairman during the international meeting “Connexins in the cardiovascular system”. Bern (CH).

2007 Invited speaker at Novartis Cardio-Vascular biology meeting. Interlaken, Switzerland

2004 Invited speaker at ‘Cardiostim’, XV World Congress in Cardiac Electrophysiology and Cardiac Techniques, Nice, France.

## **MEMBERSHIP**

Board Member of the Italian Society of Cardiovascular Research (SIRC) 2020-2022  
Member of Italian Society of Translational Research and Health Professional (SIRTEPS),  
Member of BHF, Imperial College London,  
Member of Swiss Physiological Society and Swiss Conference University,  
Member of ESC Working group in Cardiac Cellular Electrophysiology and working group in Myocardial Function, Working group in Cardiac Imaging

**REVIEWERS ACTIVITY (selection):**

Panel Grant, ERC (EU) Consolodator Grant Reviewer Activity, BHF (UK), MRC (UK), SNF (CH).  
Journals: Nano Letters, Circ. Res., AJP, Cardio. Res., Frontiers, Cell Death and Disease, J Pharmacology, Nanomedicine UK.

**PATENTS**

**WO2016102576A1, CA2971519A1** : Products for the delivery of therapeutic/diagnostic compounds to the heart. Michele Miragoli , Daniele Catalucci, Michele Iafisco, Anna Tampieri

**Deposit:** Sistema modulare per la gestione microlitrica di gas in pressione per la somministrazione controllata di sostanze in forma gassosa, liquida e polvere. Ruben Foresti, Michele Miragoli, Claudio Macaluso, Stefano Rossi, Stefano Selleri, Paolo Colombo, Daniele Catalucci.

**PUBLICATIONS AND BIBLIOMETIC INDICATORS**

ORCID: 0000-0002-4058-4368

N of Peer-Reviewed Pub:108

H index:26.

Cit: 2864 (WoS)

IF Average: 7.65

Parma, 07/05/2022

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Michele Miragoli