PERSONAL INFORMATION

Michal CIFRA born 19th July 1983, Slovakia

EDUCATION/A	CADEMIC	DECREES
LUUCAIIONA	CADEMIC	DESTRUCTO

- 2009 **PhD.** in **Radioelectronics**, Department of Electromagnetic Field, Faculty of Electrical Engineering, Czech Technical University in Prague, Czechia
- 2006 **M.Sc. (Ing.)** in **Biomedical Engineering,** Faculty of Electrical Engineering, University of Žilina, Slovakia

POSITIONS

- 2013 now **Team leader/Senior scientist** Inst. Photonics and Electronics, Czech Acad. of Sci, Czechia
- 2014 2015 **Visiting researcher**, 8 months, University of Chicago, James Franck Institute / Physical Sciences Div. (Dept. of Chemistry), Chicago, USA
- 2013 Sept. Visiting researcher, National Institute for Materials Science, Tsukuba, Japan
- 2010 2012 **Postdoctoral researcher,** Institute of Photonics and Electronics, CAS, Czechia
- 2010 Sept. Erasmus Mundus visiting researcher, State University of Campinas, Brazil
- 2005 2010 3 months total **Visiting student researcher**, International Institute of Biophysics, Neuss, Germany
- 2004 2005 7 months total **Student researcher (HiWi) / Socrates Erasmus fellow / Leonardo da Vinci trainee,** ELCAT GmbH & Institut für Hochfrequenztechnik, RWTH Aachen, Germany

PROJECTS

- 2020 2024 Czech Science Foundation 20-06873X SubTHz on-chip devices for controlling protein nanomachines, 1.9 MEUR, **PI**
- 2018 2020 Czech Science Foundation 18-23597S *High-frequency microdevices for controlling protein nanomotors*, 206 kEUR, **PI**
- 2017 2019 Czech Science Foundation 17-11898S Nanosecond electric pulses for modulation of microtubule dynamics, 110 kEUR share, **co-PI**
- 2017 2021 COST Action CA15211 Atmospheric Electricity Network: coupling with the Earth System, climate and biological systems, **management committee member**
- 2015 2017 Czech Science Foundation 15-17102S Radiofrequency characterization of microtubules using micro- and nanosensors, 180 kEUR, **PI**
- 2015 2021 2 joint Research Projects Czech & Slovak Academy of Science: 1. Exploring physical basis of electromagnetic field interactions with biomolecules, cells and tissue, 2. Novel integrated approaches for research of biomedical effects of pulsed electric fields
- 2014 2018 COST Action BM1309 European network for innovative uses of EMFs in biomedical applications, **management committee member**
- 2013 2015 Czech Science Foundation 13-29294S 2013 2015 Photonic Biosignals: measurement and characterization, 280 kEUR, **PI**
- 2010 2012 Czech Science Foundation P102/10/P454 Postdoc project Measurement and Analysis of Local Electric Oscillations and Optical Emission of Biomolecular Nanostructures, 72 kEUR, **PI**

INVITED / TRAVEL-COST-COVERED TALKS

- 2022: 3 XXVII Int. Symp. on Bioelectrochem. and Bioenergetics, Antwerpen, Belgium, 4.-7. 4. ATAP-RASC URSI, Gran Canaria, 29.5.-3.6., IEEE IMBioC 16.5.-18.5., 2022
- 2021: 4 GASS URSI, Italy, 28.8.- 4.9.; XXVI. Ann. Cong. Czech and Slovak Socs Biochem & Mol, Biol, CR, 29.8.-1.9.; 4th Aquaphotomics Int Symp, Japan, 20-22 Mar; IEEE Sensors, AU, 1-4 Nov
- 2019 XXV Int. Symp. on Bioelectrochemistry and Bioenergetics, Limerick, Ireland, 26-30 May,
- 2019 Int. Winterschool on Bioelectronics, Kirchberg in Tirol, Austria, 16-23 March
- 2018 3rd Aquaphotomics International Symposium, Awaji, Japan, 2-6 December
- 2017 Conf. on the Physics, Chemistry and Biology of Water, Sofia, Bulgaria, 26-29 October, 8th

Michal Cifra - CV

2017	International THz-Bio workshop, Frascati, Italy, 4-6 October
2016	International Workshop on Ultra-weak Photon Emission, Tehran, Iran, 7-9 February
2015	Cong. Internacional en Tecnología, Innovación y Docencia, Mexico 20-24 April
2012	Biophysical Aspects of Complexity in Health and Disease / Lugano, Switzerland, 18-19 May
2011	Conf. on the Physics, Chemistry and Biology of Water / Vermont, USA, 20-23 October
2011	Electromagnetic fields and Quantum phenomena in the BioSystems / Poznań, Poland, 20 May
2010	Summer School on Biophotonics and Applications of Biophotons, International Institute for
	Biophysics / Neuss, Germany, 1-6 August
2008 - 2015	9 other invited conference talks / local seminars in Czechia, France, Japan, Mexico, USA, UK

FELLOWSHIPS, AWARDS, HONORS

2022	Justin Teissié Award, ISBETT	
2021	Life member, SPIE	
2019	Best paper award for 2019 from Institute of Photonics and Electronics, CAS	
2019	Senior member of Optica (former Optical Society of America)	
2016	Otto Wichterle Award from the Czech Academy of Sciences in the field of Mathematics, Physics and Earth Sciences	
2015	IEEE, Senior Member	
2015	International Travel Award to support attendance to the Biophysical Society Annual meeting 2015 and to present outstanding achievements in biophysics research, Biophysical Society / Baltimore / USA (competition success rate: 39%)	
2014	European Molecular Biology Laboratory Advanced Training Centre Corporate Partnership Programme Fellowship / Heidelberg / Germany (success rate in program: 12%)	
2008	Young Scientist Award / URSI – International Union of Radio Science, Belgium/USA	
ORGANIZATION OF SCIENTIFIC MEETINGS		

ORGANIZATION OF SCIENTIFIC MEETINGS

Chair /Local organizer /Scientific committee member of 11 scientific meetings with 1000 participants in total

TEACHING, MENTORSHIP OF STUDENTS AND POSTDOCS

Molecular Bioelectromagnetism course founder, co- or supervisor of students: 12 master (1 ongoing), 6 **doctoral** (3 graduated, 1 with distinction / 3 ongoing), **5 postdocs** (3 ongoing)

MEMBERSHIP IN SCIENTIFIC SOCIETIES, JOURNAL EDITORIAL BOARD

Senior Member of IEEE, chair (2018-2021) & secretary of CSS IEEE EMB (societies: Engineering in Biology and Medicine (2015 -), Microwave Theory and Techniques (2015 -), Photonics Society (2013 -), Life Sciences Community (2013 -), Czechoslovakia section (2007 -), associate editor Scientific Reports, IEEE J. Electromagnetics, RF and Microwaves in Medicine and Biology

URSI (Int. Union of Radio Science): Com K TAC member, secretary of the national committee

Member (ISEBTT, Bioelectrochemical Society, BioEM Society, Biophysical Society, European Microwave Association, International Society for Bioelectromagnetism, Czechoslovak Biological Society, Optica, SPIE)

BIBLIOGRAPHY

108 documents in Web of Science, guest editor for 2 special issues of different journals, 2x book editor. Citations 1266 (WoS), 2613 (Google Scholar), Hirsch index 18 (WoS), 24 (Google Scholar)

Publications: see ORCID: 0000-0002-8853-9523/ Researcher ID: D-4416-2013 Google Scholar