

Maria Serena Chiriaco – Curriculum Vitae

Maria Serena Chiriaco gained her master degree cum laude in Human Biology in 2008 at Università del Salento; from May 2009 to June 2012, she attained her PhD on the “Smart Systems and Technologies” course at Università del Salento, Scuola Superiore ISUFI, Lecce, at the end of which she discussed her PhD thesis entitled “Protein EIS biosensors for on-chip diagnostics”.

Currently, she works as a permanent Senior Researcher at Nanotec Lecce. She gained high-level experience in the field of Lab-On-Chip devices for on-field diagnostics. Her skills vary from the design, fabrication and applications of electrochemical sensors to microfluidics and on-chip pre-treatments of biological samples, as confirmed by the publication of valuable papers in the field. The biological applications of the developed microfluidic and sensing platforms range from diagnostic tools to study biorecognition events (antigen/antibody, cell-cell, aptamer-antigen) to the detection of allergens or toxins, to the on-chip separation and sorting of biological objects and extracellular vesicles. She also has expertise in optical, laser and soft lithography and in employing photosensitive polymeric materials for microfluidic applications. By participating as Staff researcher into RINOVATIS Project, she acquired skills in the realization of tools for the analysis of extracellular vesicles and in particular their sorting and following entrapment on specifically-functionalized biochip. From 2019, thanks to her role as Principal investigator in SMILE Project (H2020-Attract Program) in collaboration with STMicroelectronics and PRIN2017 (Local Unit Responsible), both dealing with the realization of on-chip diagnostic tools, she started her transition to independence, currently heading a small team of young researchers. Recently (2020-2023), she led a Work Package of TITAN Project (Tumor ImmunoTherApy by Nanotechnology) dealing with the integration of microfluidic and sensing tools into lab-On-Chips for high-quality CAR-T cells production. From 2023 she is the PI of a PRIN2022 Project (RESOLVE - innovative platfoRm based on fiEld-flow-fractionation and Sample On-chip detection to unravel extraceLlular Vesicles hEterogeneity) in collaboration with University of Bologna and Ospedale San Raffaele.

• CURRENT POSITION

- 2023 – Currently **Senior Researcher (Primo Ricercatore)** at CNR NANOTEC – Institute of Nanotechnology of Consiglio Nazionale delle Ricerche - Lecce, Italy
- 2018–currently **Permanent Researcher** at CNR NANOTEC – Institute of Nanotechnology of Consiglio Nazionale delle Ricerche - Lecce, Italy

• RESPONSIBILITY ROLES

- 2023 – Currently **Coordinator of PRIN2022 Project RESOLVE** - innovative platfoRm based on fiEld-flow-fractionation and Sample On-chip detection to unravel extraceLlular Vesicles hEterogeneity (Project code: 202233FTW8)
- 2021–2023 **WP Responsible** for TITAN Project “Nanotecnologie per l'immunoterapia dei tumori” (MIUR: PON ARS01_00906)
- 2019–2023 **Local Unit Coordinator** of PRIN2017 **Project PRODIGIO** - Prostate cancer: disentangling the relationships with tumor microenvironment to better model and target tumor progression (MIUR: 20174PLLYN)
- 2019–2020 **Coordinator of Project SMILE** - A SAW-MIP Integrated device for oraL cancer Early detection (ATTRACT EU Program, 777222) (<http://www.nanotec.cnr.it/en/funded-projects>)

• MOBILITY EXPERIENCE

- 13/06-05/07-2022 **CNR Short Term Mobility** spent at INL – Braga (Portugal) at the Prof. Pedro Alpuim Laboratories (Supervisor: Dr. Jerome Borme) with Project: **A graphene-based device integrated with microfluidic for biodetection.**



- **PREVIOUS POSITIONS**

- 2017 – 2018 **Fixed-term Researcher** at CNR NANOTEC on *MADIA Project (Magnetic Diagnostic Assay for neurodegenerative disease)*.
- 2016–2017 **Post-doc** at CNR NANOTEC on Project “*Cluster in Bioimaging*” on the topic: “Preparation and processing of microfluidic and biosensing devices”.
- 2013–2015 **Post-doc** at CNR NANOSCIENCE on Project PON *RINOVATIS – Rigenerazione di tessuti nervosi ed osteocartilaginei mediante innovativi approcci di tissue engineering*” on the topic: “*Analysis of microvesicles for diagnostics*”
- 2013 **Post-doc** at University of Salento – Lecce on Project “*Biomag – Magnetoresistive Biochips for diagnostics*” (5x1000 per la ricerca 2012)
- 2012–2013 **Post-doc** at National Nanotechnology Laboratory – Lecce on the topic: “Impedimetric Biochip for diagnostics” funded by Ekuberg Pharma srl.

- **EDUCATION**

- 2009–2012 **PhD in Smart Systems and Technologies - Scuola Superiore ISUFI, University of Salento – Italy**
Name of PhD Supervisor: Prof. Giuseppe Maruccio
- 2008–2009 **II Level Master in Biotechnological risk Management: ItaliaLavoro – University of Salento**
- 2006–2008 **Master Degree: Human Biology at University of Salento**
- 2003–2006 **Bachelor Degree: Biological Science at University of Salento**

- **FELLOWSHIPS AND AWARDS**

- 2014 **Travel award** at *Microfluidics 2014*, EMBL (European Molecular Biology Laboratory), Heidelberg, July 2014

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

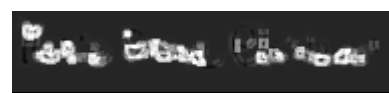
- 2021- currently **Supervisor** of a **Fellowship** (Valeria Garzarelli) and of a **Post-doc** (Dr. Salma Umme) recruited in PRIN2017 Project
- 2019–2020 **Supervisor** of a **Fellowship** (Sophia Zoupanou) recruited in SMILE Project
- 2018–2020 **Co- Supervisor** of 2 PhD Students of Nanotechnology PhD Course of University of Salento, Physics Dpt.
- 2021-currently **Co- Supervisor** of 1 PhD Student of Nanotechnology PhD Course of University of Salento, Physics Dpt.

- **TEACHING ACTIVITIES**

- 2021 Eligibility as **Associated Professor** of **Analytical Chemistry (03/A1, SSD: CHIM/01)** and **Experimental and matter Physics (02/B1, SSD: FIS/01)**
- 2018–2020 **Teach and Lab activities** for “Nanotechnology and Biosensors” Course at University of Bari–Dpt of Biotechnologies.
- 2019 “**Lab on Chip and Biosensors**” course for **PhD Students, Doctoral course of Nanotechnology** of University of Salento, Physics Dpt.
- 03/2018 -09/2018 **Facilitatore Didattico (teaching facilitator)** for the program **Contamination Lab Unisalento**, University of Salento

- **ORGANIZATION OF SCIENTIFIC MEETINGS**

- 2024 **Conference Chairman** of *EDGE-Tech Workshop 2nd Edition* – Lecce, 27-28 June 2024 (<https://edgetech.nanotec.cnr.it>)
- 2020 **Conference Chairman** of *EDGE-Tech Workshop* - online: 26-31 October 2020 (www.nanotec.cnr.it/en/workshop-edge-tech-2020---online)



• INSTITUTIONAL RESPONSIBILITIES

- 2010–2021 **Supervisor** (*correlatore*) of around 15 Students for Graduation Thesis from UniSalento, University of Bari, Polytechnic of Bari
- 2019–2020 **Commission chair and member** for 3 fellowship/post-doc calls
- 2019–2020 **Commission member** for goods and instruments acquirement.
- 2018–2020 **Board member** of *Nanofabrication and Materials* Facilities

• REVIEWING ACTIVITIES

- 2020 **Reviewer** for EU Commission: *ERC CONSOLIDATOR Grant*
- 2020 **Reviewer** for Swiss National Science Foundation for *Sinergia Projects 2020*
- 2018 International Program **Committee Member** of **MicDAT2018 Conference** (<http://www.micdat-conference.com/>)
- 2020 **Guest Editor** for “*Micromachines*”: (https://www.mdpi.com/journal/micromachines/special_issues/Technologies_POC)
- 2016 **Guest Editor** for “*Sensors*” (<http://www.mdpi.com/journal/sensors>)
- 2010 – Currently **Peer reviewer** for scientific Journals (*Nature Comm, JACS, Bios& Bioelectr, Lab on Chip, Sci Rep, Biotechnology Advances*)

• RECORD OF ORAL PRESENTATIONS IN WELL-ESTABLISHED CONFERENCES:

- *BioChip Berlin* (May 28-28, 2024) Berlin (Germany) – Oral Presentation
- *8th Conference on Biosensing Technologies* (May 12-15, 2024) Seville (Spain) – Oral Presentation
- *EuroSensors 2023 Conference* (September 11-13, 2023) Lecce – Oral Presentation
- *CMD 30 - FisMat 2023 conference* (Politecnico di Milano, 4th September – 8th September, 2023), Milan – Oral Presentation
- *8th Annual Conference of AnalytiX-2022* (July 15-17, 2022) Amsterdam - Invited speaker
- *IEEE International Conference on "Devices for Integrated Circuit" (DevIC)* (IEEE Conference Record No # 50843), online, 19-20 May 2021 – Invited speaker
- *Microfluidics 2020*, online, EMBL (European Molecular Biology Laboratory) – Heidelberg, July 13-15 2020
- *7th Annual Conference of AnalytiX2019 conference*. Berlin, November 13-15 2019 – Oral Presentation
- *Nano-oncology: Chemistry meets Bio. International Workshop*, Bari 12th-13th December 2016 – Invited speaker
- *NanoItaly 2015* Rome, September 2015 – Invited speaker
- *MiNaB-ICT: International Workshop on “Micro-Nano-Bio-ICT Convergence”* Otranto, Italy, 13-15 July 2015
- *Microfluidics 2014*, EMBL (European Molecular Biology Laboratory), Heidelberg- Germany, 23 - 25 July 2014. Oral Contribution with travel award
- *AICING- V workshop nazionale - Tecnologie Chimiche per il Benessere e la Salute dell’Uomo* - Favignana, (Trapani) 13-14 June 2013 Oral contribution with award.
- *BioNanoMed 2013 – 4th International Congress on Nanotechnology, Medicine and Biology*. Krems, Danube University (Austria), 13-15 March 2013.
- *TNT09 – Trends in Nanotechnologies*– Barcelona (Spain), 07-11 Settembre 2009

• PROJECT PARTICIPATION AND FUND RAISING

- 09/2023 – Currently **PRIN Project 2022: RESOLVE** Project code: 202233FTW8
Funding (NANOTEC): 128 k€
- 08/2019 – 08/2023 **PRIN Project 2017: PRODIGIO** Prot. 20174PLLYN.
Funding: 137.5 k€
Role: *Coordinator of Local Unit, Proposal drafting and Staff Scientist*



01/2021 – currently	TITAN Project (MIUR: PON ARS01_00906) Funding (NANOTEC): 3,442,924 € Role: <i>WP Responsible, Proposal drafting and Staff Scientist</i>
05/2019 – 10/2020	SMILE Project (H2020 ATTRACT Program G.A.777222) Funding: 100k€ Role: <i>Principal Investigator, Proposal submission and Staff Scientists</i>
2018 – 2019	ERN APULIA – European Research Night. (UE-H2020-MSCA-NIGHT-2018, Grant No. 818783) Role: <i>Staff Scientist, Proposal drafting</i>
2017 – 2020	INNO-Sense: sviluppo di una piattaforma sensoristica innovativa per analisi e monitoraggio on-field (MIUR progetto FIRS CUP 87G18000010001) Funding: 196k € Role: <i>Proposal drafting and Staff Scientist</i>
2017 – 2020	MADIA – Magnetic Diagnostic Assay for neurodegenerative diseases UE-H2020-ICT (G.A.732678) Role: <i>Staff Scientist, Proposal drafting</i>
2015 – 2017	Cluster tecnologico 2014 "Bioimaging" Programma Regione Puglia FSC 2007-2013 "Cluster Tecnologici 2014" Role: <i>Staff Scientist, Proposal drafting</i>
2012 – 2015	RINOVATIS – Rigenerazione di tessuti nervosi ed osteocartilaginei mediante innovativi approcci di tissue engineering. Progetto PON Cod.PON02_00563_3448479 Role: <i>Staff Scientist, Proposal drafting</i>

• PATENTS

- WO 2015015456 A1
- IT1419025-B

Impedenziometric biochip for the simultaneous diagnosis of candida albicans, chlamydia trachomatis and streptococcus agalactiae. Maria Serena Chiriaco et al. 2014

• NETWORK OF COLLABORATIONS

Two industrial projects:

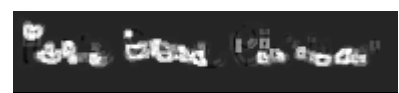
- Ekuberg Pharma (“Development of impedentiometric biochip for gynaecological diagnosis”, patented in 2014)
- IBM (to develop and patent an innovative gas sensor with several application)

Her network of collaborations includes several Universities and Research Centers all around Italy:

- Dott.ssa Valentina Marassi – University of Bologna (co-PI for RESOLVE Project)
- Prof. A.Quattrini and Dr. A.Romano – San Raffaele Hospital (EVs analysis, exosomes)
- Prof. A.Ancona – University of Bari (laser-based micro- and nanofabrication)
- Dr. A.Azzariti - IRCCS Giovanni Paolo II Oncology Institute of Italian Ministry of Health (cancer Biomarkers, extracellular vesicles);

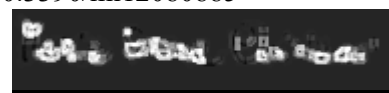
International collaborations:

- Prof. Z.Ali – Teesside University (biosensing and microfluidic devices)
- Dr. J.Borme – International Iberian Nanotechnology Laboratory (innovative nanostructured sensing devices),
- Prof. G.Santarpino, Paracelsus Medical University, Nuremberg (clinical applications of innovative sensing devices)

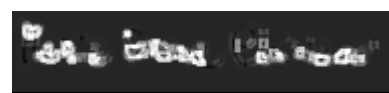


• PUBLICATIONS

1. Turco A., Foscarini A., Piccirillo C., Primiceri E., Chiriaco, Ferrara F., A promising solution for water remediation: PDMS-(Nano)carbon hybrid materials for oil removal (2024) *Applied Materials Today* 38 (2024) 102218 DOI: 10.1016/j.apmt.2024.102218
2. Stampone B.; Deniz K.I.; Foscarini; Turco A.; Chiriaco M.S.; Ferrara F.; Giorleo L.; Trotta G. Rapid Tooling for Microinjection Moulding of Proof-of-Concept Microfluidic Device: Resin Insert Capability and Preliminary Validation (2024) *Applied Sciences*, 14(8), 3157; DOI: 10.3390/app14083157
3. Turco A., Primiceri E., Chiriaco M.S., La Pesa V., Ferrara F., Riva N., Quattrini A., Romano A., Maruccio G. Advancing amyotrophic lateral sclerosis disease diagnosis: A lab-on-chip electrochemical immunosensor for ultra-sensitive TDP-43 protein detection and monitoring in serum patients (2024) *Talanta*, art. no. 125866 DOI: 10.1016/j.talanta.2024.125866
4. Siciliano G., Alsadig A., Chiriaco M.S., Turco A., Foscarini A., Ferrara F., Gigli G., Primiceri E. Beyond traditional biosensors: Recent advances in gold nanoparticles modified electrodes for biosensing applications (2024) *Talanta*, 268, art. no. 125280 DOI: 10.1016/j.talanta.2023.125280
5. Umme S., Siciliano G., Primiceri E., Turco A., Tarantini I., Ferrara F., Chiriaco M.S. Electrochemical Sensors for Liquid Biopsy and Their Integration into Lab-on-Chip Platforms: Revolutionizing the Approach to Diseases (2023) *Chemosensors*, 11 (10), art. no. 517 DOI: 10.3390/chemosensors11100517
6. Siciliano G., Chiriaco M.S., Ferrara F., Turco A., Velardi L., Signore M.A., Esposito M., Gigli G., Primiceri E. Development of an MIP based electrochemical sensor for TGF- β 1 detection and its application in liquid biopsy (2023) *Analyst*, 148 (18), pp. 4447 – 4455 DOI: 10.1039/d3an00958k
7. Volpe A., Chiriaco M.S., Paiè P., Capodacqua F.M.C., Gaudiuso C., Primiceri E., Ferrara F., Osellame R., Ancona A. Smart Procedures for the Femtosecond Laser-Based Fabrication of Polymeric Lab-on-a-Chip (2023) *Proceedings of SPIE - The International Society for Optical Engineering*, 12409, art. no. 1240916 DOI: 10.1117/12.2648217
8. di Toma A., Brunetti G., Chiriaco M.S., Ferrara F., Ciminelli C. A Novel Hybrid Platform for Live/Dead Bacteria Accurate Sorting by On-Chip DEP Device (2023) *International Journal of Molecular Sciences*, 24 (8), art. no. 7077 DOI: 10.3390/ijms24087077
9. Garzarelli V., Chiriaco M.S., Cereda M., Gigli G., Ferrara F. Ultrasensitive qPCR platform for rapid detection of bacterial contamination of raw biological samples at the point of care (2023) *Heliyon*, 9 (5), art. no. e16229 DOI: 10.1016/j.heliyon.2023.e16229
10. Ferrara F., Primiceri E., Chiriaco M.S. Editorial for the Special Issue on Emerging and Disruptive Next-Generation Technologies for POC: Sensors, Chemistry and Microfluidics for Diagnostics (2022) *Micromachines*, 13 (2), art. no. 181 DOI: 10.3390/mi13020181
11. Volpe A., Conte Capodacqua F.M., Garzarelli V., Primiceri E., Chiriaco M.S., Gaudiuso C., Ferrara F., Ancona A. Femtosecond Laser Fabrication of Microporous Membranes for Biological Applications (2022) *Micromachines*, 13 (9), art. no. 1371 DOI: 10.3390/mi13091371
12. Garzarelli V., Chiriaco M.S., Cereda M., Autuori I., Ferrara F. Miniaturized Real-Time PCR systems for SARS-CoV-2 detection at the Point-of-Care (2022) *Clinica Chimica Acta*, 536, pp. 104 – 111 DOI: 10.1016/j.cca.2022.09.014
13. Garzarelli V., Ferrara F., Primiceri E., Chiriaco M.S. Biofluids manipulation methods for liquid biopsy in minimally-invasive assays (2022) *MethodsX*, 9, art. no. 101759 DOI: 10.1016/j.mex.2022.101759
14. Ferrara F., Zoupanou S., Primiceri E., Ali Z., Chiriaco M.S. Beyond liquid biopsy: Toward non-invasive assays for distanced cancer diagnostics in pandemics (2022) *Biosensors and Bioelectronics*, 96, art. no. 113698 DOI: 10.1016/j.bios.2021.113698
15. Zoupanou S., Chiriaco M.S., Tarantini I., Ferrara F. Innovative 3d microfluidic tools for on-chip fluids and particles manipulation: From design to experimental validation (2021) *Micromachines*, 12 (2), art. no. 104, pp. 1 – 15 DOI: 10.3390/mi12020104
16. Zoupanou S., Volpe A., Primiceri E., Gaudiuso C., Ancona A., Ferrara F., Chiriaco M.S. Smile platform: An innovative microfluidic approach for on-chip sample manipulation and analysis in oral cancer diagnosis (2021) *Micromachines*, 12 (8), art. no. 885 DOI: 10.3390/mi12080885



17. Buja I., Sabella E., Monteduro A.G., Chiriaco M.S., De Bellis L., Luvisi A., Maruccio G. Advances in plant disease detection and monitoring: From traditional assays to in-field diagnostics (2021) *Sensors*, 21 (6), art. no. 2129, pp. 1 – 22 DOI: 10.3390/s21062129
18. Volpe A., Krishnan U., Chiriaco M.S., Primiceri E., Ancona A., Ferrara F. A Smart Procedure for the Femtosecond Laser-Based Fabrication of a Polymeric Lab-on-a-Chip for Capturing Tumor Cell (2021) *Engineering*, 7 (10), pp. 1434 – 1440 DOI: 10.1016/j.eng.2020.10.012
19. Tameh M.H., Primiceri E., Chiriaco M.S., Poltronieri P., Bahar M., Maruccio G. Pectobacterium atrosepticum biosensor for monitoring blackleg and soft rot disease of potato (2020) *Biosensors*, 10 (6), art. no. 64 DOI: 10.3390/BIOS10060064
20. Marzano G., Chiriaco M.S., Primiceri E., Dell'Aquila M.E., Ramalho-Santos J., Zara V., Ferramosca A., Maruccio G. Sperm selection in assisted reproduction: A review of established methods and cutting-edge possibilities (2020) *Biotechnology Advances*, 40, art. no. 107498 DOI: 10.1016/j.biotechadv.2019.107498
21. Rizzato S., Leo A., Monteduro A.G., Chiriaco M.S., Primiceri E., Sirsi F., Milone A., Maruccio G. Advances in the development of innovative sensor platforms for field analysis (2020) *Micromachines*, 11 (5), art. no. 491 DOI: 10.3390/MI11050491
22. Marzano G., Moscatelli N., Di Giacomo M., Martino N.A., Lacalandra G.M., Dell'aquila M.E., Maruccio G., Primiceri E., Chiriaco M.S., Zara V., Ferramosca A. Centrifugation force and time alter CASA parameters and oxidative status of cryopreserved stallion sperm (2020) *Biology*, 9 (2), art. no. 22 DOI: 10.3390/biology9020022
23. Paul A., Chiriaco M.S., Primiceri E., Srivastava D.N., Maruccio G. Picomolar detection of retinol binding protein 4 for early management of type II diabetes (2019) *Biosensors and Bioelectronics*, 128, pp. 122 – 128 DOI: 10.1016/j.bios.2018.12.032
24. Maruccio C., Scigliuzzo M., Rizzato S., Scarlino P., Quaranta G., Chiriaco M.S., Monteduro A.G., Maruccio G. Frequency and time domain analysis of surface acoustic wave propagation on a piezoelectric gallium arsenide substrate: A computational insight (2019) *Journal of Intelligent Material Systems and Structures*, 30 (6), pp. 801 – 812 DOI: 10.1177/1045389X18803461
25. Chiriaco M.S., Parlange I., Sirsi F., Poltronieri P., Primiceri E. Impedance sensing platform for detection of the food pathogen listeria monocytogenes (2018) *Electronics (Switzerland)*, 7 (12), art. no. 347 DOI: 10.3390/electronics7120347
26. Chiriaco M.S., Bianco M., Nigro A., Primiceri E., Ferrara F., Romano A., Quattrini A., Furlan R., Arima V., Maruccio G. Lab-on-chip for exosomes and microvesicles detection and characterization (2018) *Sensors (Switzerland)*, 18 (10), art. no. 3175 DOI: 10.3390/s18103175
27. Chiriaco M.S., Rizzato S., Primiceri E., Spagnolo S., Monteduro A.G., Ferrara F., Maruccio G. Optimization of SAW and EIS sensors suitable for environmental particulate monitoring (2018) *Microelectronic Engineering*, 202, pp. 31 – 36 DOI: 10.1016/j.mee.2018.10.008
28. Chiriaco M.S., Luvisi A., Primiceri E., Sabella E., De Bellis L., Maruccio G. Development of a lab-on-a-chip method for rapid assay of Xylella fastidiosa subsp. pauca strain CoDiRO (2018) *Scientific Reports*, 8 (1), art. no. 7376 DOI: 10.1038/s41598-018-25747-4
29. Primiceri E., Chiriaco M.S., Notarangelo F.M., Crocamo A., Ardissino D., Cereda M., Bramanti A.P., Bianchessi M.A., Giannelli G., Maruccio G. Key enabling technologies for point-of-care diagnostics (2018) *Sensors (Switzerland)*, 18 (11), art. no. 3607 DOI: 10.3390/s18113607
30. Primiceri E., Chiriaco M.S., Maruccio G. Lab on chip for life science: From medical diagnostics to food quality control (2018) *ICICDT 2018 - International Conference on IC Design and Technology, Proceedings*, pp. 181 – 184 DOI: 10.1109/ICICDT.2018.8399786
31. Rizzato S., Scigliuzzo M., Chiriaco M.S., Scarlino P., Monteduro A.G., Maruccio C., Tasco V., Maruccio G. Excitation and time resolved spectroscopy of SAW harmonics up to GHz regime in photolithographed GaAs devices (2017) *Journal of Micromechanics and Microengineering*, 27 (12), art. no. 125002 DOI: 10.1088/1361-6439/aa8186
32. Chiriaco M.S., Bianco M., Amato F., Primiceri E., Ferrara F., Arima V., Maruccio G. Fabrication of interconnected multilevel channels in a monolithic SU-8 structure using a LOR sacrificial layer (2016) *Microelectronic Engineering*, 164, pp. 30 – 35 DOI: 10.1016/j.mee.2016.07.006
33. Primiceri E., Chiriaco M.S., De Feo F., Santovito E., Fusco V., Maruccio G. A multipurpose biochip for food pathogen detection (2016) *Analytical Methods*, 8 (15), pp. 3055 – 3060 DOI: 10.1039/c5ay03295d



34. Chiriaco M.S., Primiceri E., De Feo F., Montanaro A., Monteduro A.G., Tinelli A., Megha M., Carati D., Maruccio G. Simultaneous detection of multiple lower genital tract pathogens by an impedimetric immunochip (2016) *Biosensors and Bioelectronics*, 79, pp. 9 – 14 DOI: 10.1016/j.bios.2015.11.100
35. Chiriaco M.S., De Feo F., Primiceri E., Monteduro A.G., De Benedetto G.E., Pennetta A., Rinaldi R., Maruccio G. Portable gliadin-immunochip for contamination control on the food production chain (2015) *Talanta*, 142, art. no. 15540, pp. 57 – 63 DOI: 10.1016/j.talanta.2015.04.040
36. Ameer Z., Primiceri E., De Feo F., Chiriaco M.S., Monteduro A.G., Maruccio G., Rinaldi R. DNA sensors with impedimetric and magnetoresistive transduction - A comparison study (2014) *Proceedings of 2014 11th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2014*, art. no. 06778122, pp. 65 – 68 DOI: 10.1109/IBCAST.2014.6778122
37. Chiriaco M.S., Primiceri E., Monteduro A.G., Bove A., Leporatti S., Capello M., Ferri-Borgogno S., Rinaldi R., Novelli F., Maruccio G. Towards pancreatic cancer diagnosis using EIS biochips (2013) *Lab on a Chip*, 13 (4), pp. 730 – 734 DOI: 10.1039/c2lc41127j
38. Chiriaco M.S., Primiceri E., Montanaro A., De Feo F., Leone L., Rinaldi R., Maruccio G. On-chip screening for prostate cancer: An EIS microfluidic platform for contemporary detection of free and total PSA (2013) *Analyst*, 138 (18), pp. 5404 – 5410 DOI: 10.1039/c3an00911d
39. Primiceri E., Chiriaco M.S., Rinaldi R., Maruccio G. Cell chips as new tools for cell biology-results, perspectives and opportunities (2013) *Lab on a Chip*, 13 (19), pp. 3789 – 3802 DOI: 10.1039/c3lc50550b
40. Chiriaco M.S., Primiceri E., D'Amone E., Ionescu R.E., Rinaldi R., Maruccio G. EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection (2011) *Lab on a Chip*, 11 (4), pp. 658 - 663 DOI: 10.1039/c0lc00409j
41. Primiceri E., Chiriaco M.S., Dioguardi F., Monteduro A.G., D'Amone E., Rinaldi R., Giannelli G., Maruccio G. Automatic transwell assay by an EIS cell chip to monitor cell migration (2011) *Lab on a Chip*, 11 (23), pp. 4081 – 4086 DOI: 10.1039/c1lc20540d
42. Primiceri E., Chiriaco M.S., D'Amone E., Urso E., Ionescu R.E., Rizzello A., Maffia M., Cingolani R., Rinaldi R., Maruccio G. Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips (2010) *Biosensors and Bioelectronics*, 25 (12), pp. 2711 – 2716 DOI: 10.1016/j.bios.2010.04.032
43. Primiceri E., Chiriaco M.S., Ionescu R.E., D'Amone E., Cingolani R., Rinaldi R., Maruccio G. Development of EIS cell chips and their application for cell analysis (2009) *Microelectronic Engineering*, 86 (4-6), pp. 1477 – 1480 DOI: 10.1016/j.mee.2008.12.026

Con la presente la sottoscritta Maria Serena Chiriaco autorizza il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR.

La sottoscritta Maria Serena Chiriaco dichiara inoltre di essere consapevole della responsabilità penale prevista dall'articolo 76 DPR 445/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate.

Lecce, 30/07/2025



Lecce, 30/07/2025

