ALESSANDRA FIORIO PLA

Professore Associato
SSD: BIO/09, Fisiologia, Dip.to di Scienze della Vita e Biologia dei Sistemi, Università degli Studi di Torino (UniTO)
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Luogo e Data di nascita: Torino, 13 febbraio 1973

Biosketch

Alessandra Fiorio Pla graduated in molecular biology in 1998 at the University of Turin and obtained her PhD in physiology in 2001 at the University of Milan, under the supervision of Prof. Luca Munaron (Department of Life Sciences and Systems Biology, University of Turin). Alessandra Fiorio Pla carried out her postdoctoral training in the laboratory directed by Jeffrey Barker in close collaboration with the laboratory directed by Indu Ambudkar at the National Institute of Health (NIH) in Bethesda, USA. Since her PhD, the research focus has been on the in-depth study of cell physiology in the context of tumor progression and angiogenesis. She focused on the mechanisms that regulate intracellular calcium homeostasis, using a combination of ion imaging and live cell imaging techniques, together with cell physiology methodologies, to investigate cell migration, adhesion and invasion in pathophysiological contexts. **In 2007** A. Fiorio Pla obtained the position of Assistant Professor of Physiology **(SSD BIO-09)** at the Department of Life Sciences and Systems Biology of the University of Turin. Since **2015 she has been serving as Associate Professor** of Physiology at the "Turin Cell Physiology Laboratory", **Dip. Life Sciences and Systems Biology, University of Turin (UNITO).** In January **2020 she obtained the national qualification** as **full professor in Physiology (SSD 05/D1 BIO-09).** She is in possession of all the threshold values to be part of the competition commissions for the SSD **05/D1 BIO-09 sector**.
Since 2009 he has been collaborating closely as a Visiting Scientist with the group of Prof. Prevarskaya, Cell Physiology Laboratory in Lille, France as demonstrated by the supervision of several PhD and Master's students. A. Fiorio Pla's research focuses on cell physiology and Ca2+ signals and has resulted in important publications in prestigious journals such as Oncogene, Journal of Cell Biology, PNAS, EMBO Journal, Journal of Neuroscience, American Journal of Physiology. **At the moment the research group of A. Fiorio Pla is composed of 1 research technician, 2 PhD students, 1 master's student.**
Current research focuses on the analysis of the involvement of ion channels and calcium (Ca2+) signals in the pathophysiological dynamics related to the tumor context and viral infections, such as cell migration, proliferation and apoptosis. These investigations are divided into three main lines of research:

1. Role of ion channels in the progression of pancreatic ductal adenocarcinoma. Since 2018, this line of research has received funding from several national and international bodies. Among these are the Italian Ministry of Research for the PRIN 2022 project (acronym: AdaPtiviTy, Coordinator A. Fiorio Pla), the European Marie Curie Innovative Training Network Project (acronym: pHioniC, Coordinator Prof. Albrecht Schwab, University of Munster), and the Italian Ministry of Research for the PRIN 2017 project (acronym: LIONESS, coordinator Prof. Arcangeli, University of Florence). In addition, A.Fiorio Pla is a member of the international laboratory (acronym: CaPANCInv), which involves the University of Turin, the University of Lille (Inserm U1003) and the University of Munster (research group on cell migration led by Prof. Schwab). So far, 10 papers have been published concerning this line of research, the references of which can be found in the list below: 1, 2, 3, 4, 8, 9, 11, 13, 14, 16, 18

2. In collaboration with the Molecular Virology group led by Prof. Gribaudo at the Department of Life Sciences and Systems Biology of the University of Turin (UNITO), A. Fiorio Pla is investigating the role of viroporins in cytomegalovirus (US21 and US12) and SarsCov2 viral infections. She focused particularly on the role of the viral protein US21, identifying it as a calcium-permeable (Ca2+) channel in the cellular endoplasmic reticulum. This protein has been shown to have the ability to promote viral replication, inhibiting apoptosis and, at the same time, promoting cell migration through a signal transduction mechanism regulated by intracellular Ca2+ fluxes. Recently, A. Fiorio Pla is involved in the PNRR M1C2 Investment 6 - Proof of Concept POC – TOINPROVE/2023 project (acronym: DOUBLE). So far, two papers have been published related to this line of research, the references of which are listed below: 6, 22.
3. In collaboration with the Organic Chemistry group coordinated by Profs. Barolo at the Department of Chemistry of the University of Turin (UNITO), A. Fiorio Pla is developing new therapeutic agents for application in the field of oncology, focusing in particular on photodynamic therapy. Several photosensitizers with high phototoxic activity have been characterized, with the aim of identifying new nanocarriers functionalized with photosensitizers and antitumor agents. This approach aims to define effective therapeutic strategies that aim to reduce resistance to anticancer drugs. The project also includes the study of intracellular signaling pathways involved in phototoxicity and apoptosis induction, as well as the analysis of cross talk with intracellular calcium signals. Currently, A. Fiorio Pla supervises a PhD student funded through PNRR DM 118 funds, engaged in this project. Four papers have been published related to this line of research, the references of which are listed below: 5, 7, 10, 12.

As far as **teaching activity in the academic field is concerned**, A. Fiorio Pla has extensive experience at all levels of training, from the three-year degree (Physiology, three-year degree in Biology) to the master's courses (Biophysics, Neurophysiology and Cellular and Molecular Biophysics for the Master's Degrees in Cellular and Molecular Biology and Industrial Biotechnology), and to the doctorate, where she is in charge of the course of Cellular Physiology and carries out seminar activities for the PhD in Complex Systems for Quantitative Biomedicine (UniTO). The high quality of teaching is demonstrated by student satisfaction as demonstrated by the Edumeter reports (see attachments for a.y. 2022/23)

In terms of institutional responsibilities, since 2019, A. Fiorio Pla has been deeply involved in the internationalization strategy of the University of Turin, holding the role of Rector's Delegate for Scientific Relations with France and French-speaking Countries, as well as being the Rector's Delegate for International Mobility for UNITO. She is also Rector's Delegate for the Strategic Committee of the Italian-French University. Since October 2021, she has held the position of Deputy Director of Internationalization at the Department of Life Sciences and Systems Biology of UNITO.

Since 2018, he has been a member of the Board of Directors and assumes responsibility for the teaching board of the PhD in Complex Systems for Quantitative Biomedicine (formerly Complex Systems for Life Sciences) at the University of Turin. Since 2022, he has been a member of the teaching staff of the PhD of National Interest in Photoinduced Processes and Technologies at the University of Perugia.

Education

20 December 2001: Ph.D. in Physiology, University of Milan in consortium with the University of Turin
1998: Degree cum laude in Biology, University of Turin
1992: High School Diploma, Turin, Italy

Academic and research experience

2015-present: Associate Professor of Physiology (SSD: BIO/09) UniTO.
2016 (II semester): Visiting Professor at the "Cell Physiology, INSERM U1003" Laboratory, Lille, FR directed by Prof Prevarskaya.
2007-2015: Assistant Professor SSD: BIO/09, Physiology, UniTO.
2009 (II semester): Visiting scientist at the Laboratory directed by Dr. Ambudkar, National Institute of dental and Craniofacial research (NIDCR), NIH, Bethesda, MD, US. Project sponsored by the University of Turin
2012 (I semester): Visiting Professor at the Laboratory "Cell Physiology, INSERM U1003", Lille, FR directed by Prof Prevarskaya. Project sponsored by Université Lille Nord de France, College Doctoral, DAI

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2014 (I semester): Visiting Professor at the Laboratory "Cell Physiology, INSERM U1003", Lille, FR directed by Prof Prevarskaya. Project sponsored by Université Lille Nord de France, College Doctoral, DAI
2004-2007: Research Fellow "Ricerca Scientifica Applicata CIPE" Piedmont Region. Department of Life Sciences and Systems Biology, UniTO
2002-2004: Postdoc Fogarty International Fellowship sponsored by the Laboratory of Neurophysiology, directed by Dr. J. Barker National Institute of Neurological Disorders and Stroke (NINDS), NIH, Bethesda, MD, US

Bilbiometric indeces

Scopus

58 articles, of which 12 as first author, 9 as last author, 12 as "corresponding author"
H-index: 27, total citations 2191. Scientific Production of the period 2013-2023: 36 articles in indexed journals

(WOS) Web of Science Researcher ID: B-6646-2012

57 papers, of which 12 as first author, 9 as last author, 12 as "corresponding author"
H-index: 27, total citations 2090. Scientific Production of the period 2013-2023: 33 articles in indexed journals

Institutional, Organizational and Service Assignments at the University

- **November 2019-present**: Institutional Delegate for International Mobility of the University and President of the University Internationalization Commission at UNITO. Member of the evaluation committees for scholarships for incoming students (University Student at risks calls and UNICORE call); Chairman of the student evaluation committees for innovative mobility calls: University Blended Intensive Program (BIP), virtual mobility, rural mobility; Chairman of the ERASMUS Evaluation Committee for Teacher Mobility at the University of Turin; member of the evaluation commission for students in mobility (UNICOO call);
- **November 2020-present:** Rector's Delegate for UNITO's relations with France and La Francophonie. Delegate of the Rector in the Executive and Strategic Council of the Italo French University. Rector's delegate as representative of the Agence Universitaire de la Francophonie (AUF) in Italy
- **January 2022-October 2023:** task team member del work package 6 (Mobility 4all) del progetto UNITA Universitas Montium, EAC-A02-2019 (ERASMUS+ Call for proposals 2020) European University – KA2 Cooperation for innovation and the exchange of good practice
- **October 2023-presente:** task team member del work package 1.1 (Improve and transform the governance of UNITA) and 5.5 (Expanding UNITA in Europe and beyond) del progetto UNITA Universitas Montium, **ERASMUS-EDU-2023-EUR-UNIV**
- **October 2021-present:** Deputy Director for Internationalization Department of Life Sciences and Systems Biology and Chair of the Department's Internationalization Committee
- **2018-present**: Delegate for international mobility - former Erasmus for the Department of Life Sciences and Systems Biology and member of the University ERASMUS commission. Member of the Commission for the evaluation of ERASMUS students for study and ERASMUS for traineeship.
- **2018-present**: President of the Teaching Committee of the PhD in Complex Systems for Life Sciences (coordinated by Prof Medico, UNITO).
- **2021-present**: Member of the Board of the Department of Life Sciences and Systems Biology

Evaluation commette:

- **2021:** Membro interno e presidente del concorso di selezione per la procedura valutativa (ai sensi del D.M. 84/2020) a n. 1 posto di Professore universitario II fascia art. 24, c. 6 L. n. 240/2010 - **s.s.d. BIO/09** - Dipartimento di Scienze Cliniche e Biologiche, Università di Torino
- **2023:** Membro interno e presidente del concorso di selezione per la posizione di posto di ricercatore a tempo determinato ai sensi dell'art. 24, comma 3, lett. b) della legge 240/2010 presso il dipartimento di scienze della vita e biologia dei sistemi dell'Università di Torino - **settore concorsuale 05/d1 – s.s.d. bio/09**
- **Dal 2020:** Presidente o Membro di diverse commissioni borse di studio e assegni di ricerca

Research Funding

- **November 2023 – November 2025** PRIN: RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST – Call 2022 project code: 20227YTZE3. Project title: "Deciphering tumor microenvironmental Acidosis and

calcium channels/FGFRs network Crosstalk in PDAC for innovative combined Therapy (AdaPtiviTy). **Role: National PI.** Amount €226K; €79K unit UNITED

- **November 2023 – October 2024**: PNRR M1C2 Projects Investment 6 - Implementation of Patent Enhancement Programs and the financing of Proof of Concept (PoC) projects – TOINPROVE/2023. Project title: "From antihypertensives to antivirals: replenishment of calcium channel blocker function" (acronym DOUBLE). (University of Turin). PI: Anna Luganini, UNITO. **Role: responsible for the study of Ca2+ signals and cell migration** Amount: 48.9K€.
- **Giugno 2022 - dicembre 2023**: Grant for Internationalization - GFI - Programmazione Triennale 21-23 UNITO. "Deciphering Tumor microenvironmental triggers and Ca2+ channels crosstalk in PDAC progression". **Ruolo: PI.** Importo: 12.6K€
- **2021** FISR COVID: FISR2020IP_02115. Project title: Mucus4COVID: a prototype in vitro model to determine the role of pulmonary mucus in Sars-Cov2 infection, its transmission, and the development of effective therapies to block disease progression (Mu4COVID). PI: Paola Petrini, Politecnico di Milano **Role: Co-PI Unit UNITO. Activity: study of the impact of the substrate on cell physiology. Amount** €65k (€20k UNITED units).
- **December 2019- December 2023** PRIN: RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST – Call 2017 Prot. 20174TB8KW (Project Title: "Leveraging basic knowledge of ion channel network in cancer for innovative therapeutic strategies (LIONESS)). €147K (UNITA Unit) PI: Annarosa Arcangeli, University of Florence. **Role: Co-PI Unit UNITO.**
- **2019-2025**: establishment of the "International Associated Laboratory" funded by the University of Lille with an inter-institutional agreement that provides for the collaboration of three institutions (University of Turin, University of Lille, University of Munster) focused on the study of the role of ion homeostasis in the progression of pancreatic ductal cancer (PDAC). **Role: PI Unit UNITO**
- **2019**: Project funded by the Fondazione Cassa di Risparmio Torino (Fondazione CRT). "Innovative Dyes: A Question of Skin" aimed at the development of fluorescent photosensitizers for photodynamic therapy. PI: Nadia Barbero, Dip. Chemistry, UNITO. **Role: partner responsible for the study of cell characterization and photoinduced Ca2+ and ROS signals.** amount € 30K
- **2018-2023**: Marie Curie Innovative Training Networks (ITN) Call: H2020-MSCA-ITN-2017 (Project Title: "pH and Ion Transport in Pancreatic Cancer pHioniC" pHionic). PI: Albrecht Schwab, University of Münster. **Ruolo: partner**
- **2017**: Vinci Chapter IV (Research Grant Grant) Project 2017-Università Italo-French. (Project Title: "TRP channel Screening in Prostate Cancer: role in tumor progression and vascularization") **Role: PI.** Amount 25k€
- **2015-2017**: € 94K in the framework of the University of Torino, cofounded by CPS, (Project Title: "TRP channels-functionalized nanoparticles to target prostate cancer vascularization") Role: PI
- **2012**: Vinci Project 2012-Université Franco Italienne. Chapter 3- PhD fellowship **Role: Co-PI**

Teaching activities

Level I

- ay 2018/19 – present: General Physiology, Bachelor's Degree in Biology, Department of Life Sciences and Systems Biology, UNITO. 4CFU. Member of the examination committee of the course (5 years for 5 sessions per year). **Role: Responsible**

Level II

- aa 2009/10 – present: Cellular and Molecular Biophysics, Master's Degree in Industrial Biotechnology, Department of Life Sciences and Systems Biology, UNITO. 5CFU. Chairman of the examination committee (15 years old for 5 sessions per year). **Role: Coordinator.**
- ay 2019/20 – present: Biophysics, Master's Degree in Physics, Department of Physics, UNITO. 6CFU. Chairman of the Examination Board (5 years for 5 sessions per year) **Role: Coordinator**
- aa 2013/14 – present: Biophyisics, Master in Cellular and Molecular Biology, Department of Life Sciences and Systems Biology, UNITO. 3CFU. From 2022/23: 1.5 credits. Member of the committee for exams of the course (10 years for 5 sessions per year) **Role: Holder**
- aa 2017/18 – presente: Neurophysiology, Master in Cellular and Molecular Biology, Dipartimento di Scienze della Vita e Biologia dei Sistemi, UNITO. 3 CFU. Presidente della commissione per esami di profitto del corso (7 anni per 5 sessioni all'anno) **Ruolo: coordinatrice**

- In the academic years 2007/2008- 2008/2009- 2009/2010:
  Physical Techniques in Biology, Master's Degree in Biomolecular Sciences, Master's Degree in Biomedical Physics, Master's Degree in Biomedical Physics 1 CFU Member of the examination committee of the course (3 years for 5 sessions per year) **Role: holder**
  Pathogenesis of Damage Physiology module, Bachelor's Degree in PREVENTION TECHNICIAN IN THE ENVIRONMENT AND WORKPLACE (TPALL) I year, 1CFU. Member of the committee for exams of the course (3 years for 5 sessions per year) **Role: Holder**

III level

- Since 2013 Alessandra Fiorio Pla has been a member **of the teaching staff of the** PhD in Complex Systems for Life Sciences, now **Complex Systems for quantitative Biomedicine**, coordinated by Prof Medico, University of Turin.
  In this context, he contributes to the teaching **of Cell Physiology, a module offered to first-year students**. Fiorio Pla Alessandra also organized several **thematic days** on the role of ion channels in cell migration processes.
  In addition, **since 2019 she has been coordinator of the Teaching Committee** of the same Doctorate, which deals with the training of students during the 3 years duration of the PhD
  Since 2022, Alessandra Fiorio Pla has been a member **of the teaching staff of the PhD Course of National Interest "Photoinduced Processes and Technologies",** University of Perugia

Teaching at other national or international universities

2012: Visiting Professor in Prof. Prevarskaya's laboratory, INSERM U1003 **Université de Lille** sponsored by Université Lille Nord de France, College Doctoral, DAI in 2012. 20h lecture for both PhD students (Ecole Doctorale Biologie-Santé, UFR Biologie, Universitè Lille1) and for "Master" students in the context of the integrated course "MP1- Intégration des signaux physiologiques:de la molécule à l'organisme", (Master Biologie et Biotechnologie, University Lille 1) coordinated by Prof. Prevarskaya. The interventions included both lectures and practical exercises on the techniques for studying Ca2+ signals and TRP channels applied to the study of tumor vascularization progression.

2014: Visiting Professor in Prof. Prevarskaya's laboratory, INSERM U1003 **Université de Lille** sponsored by Université Lille Nord de France, College Doctoral, DAI in 2014. 20h lecture for both PhD students (Ecole Doctorale Biologie-Santé, UFR Biologie, Université Lille1) and for "Master" students in the context of the integrated course "MP1- Intégration des signaux physiologiques:de la molécule à l'organisme", (Master Biologie et Biotechnologie, University Lille 1) coordinated by Prof. Prevarskaya. The interventions included both lectures and practical exercises on the techniques for studying Ca2+ signals and TRP channels applied to the study of tumor vascularization progression

2021: Basic and Translational Oncology Master. Italian-FrenchErasmus Intensive Course in Oncology, **Università di Firenze**. Lezione dal titolo “Angiogenesis in Cancer: Role of Ca2+”

2024: Basic and Translational Oncology Master. Italian-FrenchErasmus Intensive Course in Oncology, **Università di Firenze**. Lezione dal titolo “Ca2+ signals and TRP channels as peculiar sensorsof tumor microenvironment”

2008: Doctoral School in Cardiovascular Physiology, **University of Turin**. Title: "Ca2+ signals and angiogenesis: functional role and molecular basis"

2022: ChemBion, PhD Program **Università Munster, Germania**. Lezione dal titolo: “TRPM8-Rap1 interaction plays a key protective role in angiogenesis and cancer cells migration

PhD Commettes

President, Internal Member and Tutor

TULLIO GENOVA, Ph.D. in Complex Systems for Vita_ Sciences - cycle XXVI. (2014)

MICHELA BERNARDINI, PhD in Complex Systems for Vita_ Sciences - cycle XXVIII (in co-tutorship with the University of Lille1 Sciences et Technologies- École Doctoral Biologie-Santé). (2015)

GIORGIA CHINIGÓ, PhD in Complex Systems for Vita_ Sciences - cycle XXXIV (in co-tutorship with the University of Lille1 Sciences et Technologies- École Doctoral Biologie-Santé). (2022)

MADELAINE AUDERO, PhD in Complex Systems for Vita_ Sciences - cycle XXXV (in co-tutorship with the University of Lille1 Sciences et Technologies- École Doctoral Biologie-Santé). (2023)

Auditor and external member of the committee
ROBERTA PERUZZO PhD Course in BIOSCIENCES, University of Padua (2019)
GREAT FORCAIA PhD program in Neuroscience, PhD University Milano-Bicocca (2019)
BLASA STEFANIA, PhD program in Converging Technologies for Biomolecular Systems Dottorato Università Milano-Bicocca (2022)
GONÇALO MESQUITA, PhD university of Lille sciences and technologies, The westphalian wilhemsms univeristy of Münster (2023)
GAYATHRI VISWANATHAN, PhD program in Bioscience, CURRICULUM: Biochemistry and Biotechnology, Università di Padova (2023)
DARIA DI MOLFETTA, PhD Program in FUNCTIONAL AND APPLIED GENOMICS AND PROTEOMICS, Università di Bari (2023)

PhD Admission Committees
Membro della commissione giudicatrice ammissione ai corsi di dottorato di ricerca di interesse nazionale XXXIX ciclo, Dottorato Processi e Tecnologie Fotoindotti (2023)

Student supervision:
Since 2019 she has supervised more than 20 Bachelor's Degree students in biology
Since 2012 she has supervised more than 30 Master's degree students from different backgrounds (cell and molecular biology, biotechnology, physics). Supervisor of incoming Erasmus students (Algeria, Portugal, UK, Turkey).
Since 2014 she has supervised 4 PhD students (PhD Complex Systems for Life Science, University of Turin and co-tutorship with PhD School of Biology and Medicine of Lille, France) and 2 female students are currently under your supervision (PhD Complex Systems for quantitative Biomedicine cycle 38; National Doctorate "Photoinduced Processes and Technologies" cycle 39)
Since 2015 he has supervised 2 postdocs.

Auditing activities:
2021: Reviewer for the "Excellence 2021" research grants of the CARIPO bank foundation.
2020 - present: member of the evaluation committee and the evaluation committee for scholarships of the Franco-Italian University (UIF). In particular, A. Fiorio Pla is a member of the following committees: Bando Vinci Chapter I, Bandi Vinci Chapter II, Bando Vinci Chapter III, Bando Vinci Chapter IV; Galileo Call; UIF Label Call; Call for Visiting Professor UIF.
2018: World wide Cancer Research formely known as AICR, UK.

Revisore per diverse riviste indicizzate (Oncogene, British Journal of Pharmacology, Cell death and Deseases, Cell Calcium, Cancers, Cells, iScience, Frontiers in cell biology).
Editor per lo special issue “Ion Channels and Transporters: The New Targets for Cancer” per la rivista International Journal of Molecular Science nel 2022.

Membership of scientific societies:
Member of the Italian Society of Physiology (SIF)
Member of the Italian Society for Cardiovascular Research (SIRC)
Member of the Italian Society of Cell Biology and Differentiation (ABCD)

Organization or participation as a speaker at scientific conferences in Italy or abroad

In the last 15 years Fiorio Pla Alessandra has participated in several Scientific Conferences as an Organizing Speaker. Here is the list of events:

- 75th SIF National Congress Italian Society of Physiology. Turin, Italy • 14–16 September **2025**. **Role: Scientific Committee**

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- International colloquium "Italian and French Universities in the European Universities Initiative" 30 March **2023,** Turin, IT organized by the University of Turin together with the Italian-French University, the UNITA - Universitas Montium alliance and the French Embassy in Italy. **Role: Scientific and Organizational Committee**
- 72nd Congresso Nazionale SIF Società Italina di Fisiologia. Bari, Italy • 14–16 September **2022**. Title of the talk: "TRPM8-Rap1 interaction plays a key protective role in angiogenesis and cancer cells migration". **Ruolo: Relatore su invito**
- PDT-PDD 2022 : Photodynamic Therapy and Photodiagnosis Update 2022 The fourth PDT symposium devoted to all aspects of Clinical Photodynamic therapy 24-28 Oct **2022** Nancy (France). Title of the talk: Structure-function analysis of Squaraines phototherapeutic activity: in vitro characterization of ROS and intracellular Ca2+ signals interplay in phototoxicity. **Ruolo: Relatore**
- Photopharmacology III Conference Virtual Conference Nov 29, **2021**. Title of the talk: Structure-function analysis of Squaraines phototherapeutic activity: in vitro characterization of ROS and intracellular Ca2+ signals interplay in phototoxicity . **Ruolo: Relatore**
- 23° Congresso Società Italiana di Ricerca Cardiovascolari, 6-8 novembre **2021**, Imola, IT. **Ruolo: Chair person sessione** "EXPLORING NOVEL SIGNALLING PATHWAYS TO UNRAVEL AND TARGET THE RELATIONSHIP BETWEEN CANCER AND THE CARDIOVASCULAR SYSTEM"
- 22nd Congress of the Italian Society of Cardiovascular Research, 6-8 November **2019**, Imola, IT. Title of the talk: ""Ion channels signature in endothelial cell migration and angiogenesis" **Role: Invited speaker**
- 1st pHioniC Summer School, Marie Curie ITN Network, October 14 – 15, **2019**, LILIAD Center, University of Lille, FR. **Role: Member of the Organizing Committee**
- 29th Ion channel Meeting, French Ion Channel Association, 9-12 Septembre **2018**, Sete, FR. Title of the talk: "TRPM8 inhibits cell adhesion and migration by trapping the small GTPase RAP1: Common target for cancer cell invasion and vascularization" **Ruolo: Relatore su invito**
- Francophonie spaces and professional opportunities, Day of the Agence universitaire de la Francophonie (AUF) at the University of Turin, 26 September **2018**, Turin, IT. Round Table on "Internship opportunities in the Erasmus Traineeship programme and in binational degree paths" **Role: Invited Speaker**
- Ca2+ Day 2018, Calcium Signalling for everyone, 2 July **2018**, Novara, IT. **Role: Member of the Organizing Committee**
- Ion Channel Science and Therapeutics meeting LabEX ICST, 29 november-1 december **2017**, Lille, FR. Title of the talk: "TRPM8 inhibits endothelial cell migration via a non-channel function by trapping small GTPase, Rap1" **Role: Invited speaker**
- Francophonie spaces and professional opportunities, Day of the Agence universitaire de la Francophonie (AUF) at the University of Turin, 16-18 October **2017**, Turin, IT. Round Table on "Internationalization of the University of Turin in the AOF network: achievements, challenges and strategies" **Role: Invited speaker**
- Cation channels in health and disease Symposium, Physiological Society of London, 30 june - 2 ljuly **2014**, London, UK. Title of the talk: "Vascularizing the tumor: Emerging role for TRP channels" **Role: Invited speaker**
- NIS Colloqium "Advances in Biomaterial: Combining Simulations and experiments", 28-29 november **2013**, Turin, IT. Title of the talk: "Bioactive glasses doped with Zn and Cu ions: endothelial cell interaction and potential bacteriostatic properties" **Role: Invited speaker**
- Ion Transport and Channel II International Meeting, 9-12 september **2012**, Wurzburg, DE. Title of the talk: "Vascularizing the tumor: balance between TRP channels" **Ruolo: Relatore su invito**
- International meeting "Ion channels and cancer", march 3-6 **2010**, Florence, IT. Title of the talk: "TRPV4 mediates tumor-derived endothelial cell migration via arachidonic acid-activated actin remodeling" **Ruolo: Relatore su invito**

Pubblicazioni

1. Carvalho, T.M.A.; Audero, M.M.; Greco, M.R.; Ardone, M.; Maggi, T.; Mallamaci, R.; Rolando, B.; Arpicco, S.; Ruffinatti, F.A.; Fiorio Pla A.; et al. Tumor Microenvironment Modulates Invadopodia Activity of Non-Selected and Acid-Selected Pancreatic Cancer Cells and Its Sensitivity to Gemcitabine and C18-Gemcitabine. 2024 **Cells**, 13, 730. https://doi.org/10.3390/cells13090730

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2. Mancini V.; Raffa S.; **Fiorio Pla A.;** French D.; Torrisi MR; Ranieri D; Belleudi F. TRPA1 Contributes to FGFR2c Signaling and to Its Oncogenic Outcomes in Pancreatic Ductal Adenocarcinoma-Derived Cell Lines. (2024) **Cancers**, 16, 609. https://doi.org/10.3390/cancers16030609
3. Folcher, A; Gordienko, D; Iamshanova, O; Bokhobza, A; Shapovalov, G; Kannancheri-Puthooru, D; Mariot, P; Allart, L; Desruelles, E; Spriet, C; Diez, R; Oullier, T; Marionneau-Lambot, S; Brisson, L; Geraci, S; Impheng, H; Lehen'kyi, V; Haustrate, A; Mihalache, A; Gosset, P; Chadet, S; Retif, S; Laube, M; Sobilo, J; Lerondel, S; Villari, G; Serini, G; **Fiorio Pla, A**; Roger, S; Fromont-Hankard, G; Djamgoz, M; Clezardin, P; Monteil, A; Prevarskaya, N. NALCN-mediated sodium influx confers metastatic prostate cancer cell invasiveness (2023) **EMBO J.** doi: 10.15252/embj.2022112198
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