

Curriculum Vitae

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&

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A. Short description of Curriculum Vitae

Savvas Christoforidis graduated from the University of Thessaloniki in 1990 (Degree in Chemistry with Summa cum Laude), got his PhD in Biological Chemistry, Department of Medicine, in the University of Ioannina in 1995 and then moved to EMBL/Heidelberg/Germany for Post-doctoral studies in the field of Cell and Molecular Biology, as a Marie Curie fellow. In 2000 he received a Marie Curie Return Fellowship, to return to Greece as an independent researcher. In 2001 he was elected Lecturer of Biological Chemistry in the Department of Medicine in the University of Ioannina, where he was promoted to Assistant Professor (2007), Tenured Assistant Professor (2011), Associate Professor (2014) and Professor (2018, until to date). Since 2001 he is Affiliated Researcher of the Institute of Biomedical Research/FORTH at Ioannina (<https://www.bri.forth.gr/bri-people/en/christoforidis-laboratory>), where his group is located. Since 2019, he is the Head of this Institute, while he is a member of the Scientific Council since 2016. In 2002, Savvas Christoforidis received the **EMBO Young Investigator award** (<https://yip-search.embo.org/#/yip/2421>). He has participated in 28 successful grant applications, in 11 of which he was the scientific responsible. Three of the grants that his lab received are European Research grants, i.e. a Marie Curie Individual Return grant (2000-2001) and two European Integrated Projects (“Endotrack” and “Pulmotension”, 2006-2010). His work has been published in high impact Journals, such as Nature, Nature Cell Biology, Cell, Journal of Cell Biology, PLoS Biology, EMBO Journal, Journal of Cell Science, and has received over 4,000 citations (in Scopus, excluding self-citations). The main research interest of the group is to understand the role of intracellular vesicular transport in vascular physiology and the implications in vascular diseases. As an experimental model, the group uses primary endothelial cells, focusing on the spatio-temporal orchestration and the molecular interconnections between receptor endocytosis, signalling and exocytosis and their consequences in vascular homeostasis and in serious vascular diseases. A new direction of the group is to investigate the role of endocytosis of growth factor receptors in the differentiation of human embryonic stem cells towards progenitor cells and fully differentiated endothelial cells. For more information: <https://www.bri.forth.gr/en/research-en/item/117-savvas-christoforidis>

B. Curriculum Vitae in detail

1. Personal details

Place and date of birth: Ioannina, 17-7-1968
Nationality: Greek
Marital status: Married, 2 children
Residence address: Andrea Papandreou 21, 45221, Ioannina
Contact info: tel. 2651007808 (lab)
2651067109 (home)
6944434431 (mob)
email: savvas_christoforidis@bri.forth.gr,
schisto@uoi.gr

Present position:

- Head of the Institute of Biomedical Research, Foundation for Research & Technology, Ioannina, Greece
- Professor of Biological Chemistry, Department of Medicine, University of Ioannina, Greece

Lab webpages:

- <https://www.bri.forth.gr/en/research-en/item/117-savvas-christoforidis>
- <https://www.bri.forth.gr/bri-people/en/christoforidis-laboratory>

2. Studies

2.1. Undergraduate and Doctoral studies

1983-1986 2nd Lyceum of Ioannina, Grade: 19.8 "Suma cum laude"

1986-1990 **Ptychion in Chemistry**, Aristotle University of Thessaloniki, School of Sciences, grade 8.93/10.00 "Suma cum laude"

Number of class and laboratory courses in Biochemistry: 11
Grade in each: 10.

Diploma thesis in the Laboratory of Biochemistry: "Study of L-Asparaginase-Kinase from *Tetrahymena pyriformis* membranes" (Grade: "Excellent").
Supervisor: Professor Mr. Dimitrios Kyriakidis

1990-1995 **PhD Thesis**, Laboratory of Biological Chemistry, Medical School, University of Ioannina, with title: "Purification and properties of the enzyme ATP diphosphohydrolase from human placenta". Thesis grade: "Excellent".
Supervisor: Professor Orestes Tsolas

2.2. Foreign Languages

English (Very Good),

German (average)

2.3. Participation in Laboratory Practical Courses and Summer Schools

- Spetsai Summer School on Molecular and Cellular Biology "New Developments in Lipid Protein Interactions and Receptor Function", Spetsai, 16-27 August, 1992.
- The Nobel Prizewinners meeting in Lindau/Lake Constance, 28 June - 2 July 1993.
- Spetsai Summer School on Molecular and Cellular Biology "Protein Structure Function and Design", Spetsai, Greece, 30 August - 12 September, 1993.
- FEBS/EMBL Practical Course "Advanced Methods: DNA Sequencing and Microinjection", Prague, Czech Republic, 12-18 September, 1994.
- EMBO-YIP Symposium on "Quantitative Biology", 24–26 June 2005, EMBL, Heidelberg, Germany, 2002

3. Career positions

(1995-1996) *(military service)*

1996-2000 **Post-doctoral Fellow** (Marie Curie TMR fellow, EU-FP4) at European Molecular Biology Laboratory, EMBL

2000-2001 **Post-doctoral Researcher** (Marie Curie Individual Return Fellow, EU-FP5), Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.

2001-2007 **Lecturer**, Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.

2007-2011 **Assistant Professor**, Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.

2011-2014 **Tenured Assistant Professor**, Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.

- 2014-2018** **Associate Professor**, Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.
- 2018-today** **Professor**, Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Greece.
- 2001- today** **Collaborating Researcher** of the Biomedical Research Institute, FORTH, in Ioannina. This Institute joined FORTH in 2001. In 2012 it merged with IMBB/FORTH (as a Department-outstation of IMBB at Ioannina), while in December 2021 it was re-established as Institute of Biomedical Research of FORTH, based at Ioannina.
- 2019- today** **Head** of the Department of Biomedical Research of IMBB/FORTH in Ioannina, which, as mentioned above, was re-established (Dec 2021) as the Biomedical Research Institute (BRI) of FORTH in Ioannina.

4. Teaching

4.1. Undergraduate courses and laboratory practicals

- 1990-1995** Participation in teaching of Chemistry and Biochemistry laboratory courses, Medical School, University of Ioannina (as a doctoral student).
- 2001-2002** Laboratory practicals of Chemistry and Biochemistry, Medical School, University of Ioannina.
- 2002-2018** Laboratory practical "Enzyme Kinetics" of the Laboratory course "Biochemistry II", of the Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina.
- 2003-2004** Participation in teaching the course "Biology I (Introduction to the Cellular Theory & Principles of Cellular Regulation, Methods of studying and culturing of cells)" for second year medical students (3rd semester), Medical School, University of Ioannina.
- 2003-2005** Participation in teaching the course "Cell Biology" for students of the Department of Chemistry, University of Ioannina.
- 2003-2010** Participation in teaching the course "Biology I (Organelle biogenesis - Basic Cellular Functions)" of second year medical students (3rd semester), Medical School, University of Ioannina.
- 2004** Participation in teaching the course "The Biotechnology of DNA", Department of Medicine, University of Ioannina. Course title: "Blood flow and thrombosis: The role of membrane organization and exocytosis of endothelial cells".
- 2004-2007** Participation in teaching the course "Biochemistry II (Metabolism)", 2nd year medical students (3rd semester), Medical School, University of Ioannina. Course title: "Amino acid and nucleotide metabolism"
- 2008- today** Participation in teaching the course "Intercellular Communication", Department of Biological Applications and Technologies, University of Ioannina.
- 2009-2013** Participation in teaching the course "Biochemistry I (Molecular Design of life)", 3rd semester, Medical School, University of Ioannina.
- 2014** Participation in teaching the course Biotechnology of DNA / Department of Medicine. Course title: "Super-resolution microscopy and its applications"

- 2013-today** Participation in teaching the course "Biochemistry II (Metabolism)", 3rd semester, Medical School, University of Ioannina. Course title: "Signal transduction" and "Carbohydrate metabolism".
- 2019- today** Teaching of the laboratory practical "Metabolic fate of pyruvate acid" of the Laboratory course "Biochemistry II", Department of Medicine, University of Ioannina.

4.2. Post-graduate Teaching

- 2002-today** Participation in the teaching of the course "Topics in Molecular and Cell Biology" in the Interinstitutional, Interdepartmental Postgraduate Program "Molecular Cell Biology and Biotechnology" co-organized by the Departments of Medicine, Biological Applications and Technologies and Chemistry of the University of Ioannina and the Institute of Biomedical Research of the Foundation for Research and Technology (FORTH).
- 2013** Teaching in the Postgraduate Program "Translational Research in Molecular Biology and Genetics" of the Department of Molecular Biology and Genetics, Democritus University of Thrace, topic: "Study of endocytic and exocytic pathways using microscopy-based techniques", Alexandroupoli, 14-12-2013.
- 2014-2020** Participation in the teaching of the course "Research Methodology" in the Interinstitutional, Interdepartmental Postgraduate Program "Molecular Cell Biology and Biotechnology". Topic: "Superresolution microscopy and its applications"
- 2015-2016** Participation in the teaching of the course "Intercellular Communication" in the Postgraduate Program "Basic Biomedical Sciences" of the Department of Medicine of the University of Ioannina.
- 2015-today** Participation in the teaching of the course "Cellular and Molecular Biology" in the Postgraduate Program "Medical Chemistry" co-organized by the departments of Chemistry, Medicine and Biological Applications and Technologies of the University of Ioannina.
- 2015-today** Participation in the teaching of the course "Biological Chemistry" in the Postgraduate Program "Basic Biomedical Sciences" of the Department of Medicine of the University of Ioannina.
- 2016** Participation in the teaching of the course "Molecular Medicine" in the Postgraduate Program "Clinical Applications of Molecular Medicine" of the Department of Medicine of the University of Thessaly.
- 2021-today** Participation in the teaching of the course "Molecular Oncology: Cell Growth, Differentiation and Cancer" topic: "The role of endocytosis in angiogenesis and cancer" in the Interinstitutional, Interdepartmental Postgraduate Program "Molecular Cell Biology and Biotechnology"
- 2022** Participation in the teaching of the postgraduate program "Biomedical Sciences" of the Department of Medicine of the University of Patras, topic: "The role of intracellular vesicular circulation in signal transduction".
- 2000-today** Supervisor in 8 postgraduate dissertations, in the Interinstitutional, Interdepartmental Postgraduate Program "Molecular Cell Biology and Biotechnology"

5. Authorship related to teaching

- 2000** Editing of the Laboratory Practical book in Chemistry, of the Medical School of the University of Ioannina.
- 2003** Writing of the lectures of the course Biochemistry II "Metabolism of proteins and amino acids" of the Medical School, within the program "Reforming the undergraduate program of the Department of Medicine of the University of Ioannina".
- 2004** Participation in the scientific editing and translation of Chapter 27, "Protein trafficking" of the book "Genes VIII" from English to Greek.
- 2004** New edition of the Laboratory Practical "Kinetics of Enzymatic Reactions" of the Laboratory Practicals of Biochemistry of the Medical School of the University of Ioannina. (Written in 2004 and updated in 2019)
- 2015** Participation in the scientific editing and translation, from English to Greek, of the book "Biochemistry: Lippincott's Illustrated Reviews", 6th edition, 2014, Denise R. Ferrier.
- 2017** Participation in the scientific editing and translation, from English to Greek, of the book "Molecular Cell Biology by Lodish et al (2016), 8th edition" (translation and scientific editing of Chapter 14, Vesicular transport, Secretion and Endocytosis) .
- 2010-2021** Participation in the scientific editing and translation from English into Greek of the Chapter "Protein sorting and Transport. Endoplasmic reticulum, Golgi apparatus and lysosomes" of the book "The Cell: A Molecular Approach", 5th, 7th and 8th editions, Cooper GM, Hausman RE, 5th, 7th & 8th ed., Sinauer, 2010, 2016, 2019.

6. Administration, participation in committees and other organizational activity

- 2001-2007** Member of the General Assembly of the Program "Biochemistry" (PSE Biochemistry) of the University of Ioannina.
- 2001-today** Member of the General Assembly of the Interinstitutional Interdepartmental Postgraduate Program "Molecular Cell Biology and Biotechnology" co-organized by the Departments of Medicine, Biological Applications and Technologies and Chemistry of the University of Ioannina and the Institute of Biomedical Research of the Foundation for Research and Technology Hellas (FORTH).
- 2002-2006** Member of the General Assembly of the Department of Medicine of the University of Ioannina.
- 2003** Participation in the writing of the proposal "Reform of Undergraduate Curriculum of the Medical School of the University of Ioannina", EPEAEK II, in the part that concerns the course of Biochemistry.
- 2008-2022** Participation, as evaluator, in elective bodies of faculty members:
- Assistant Professor of Biol. Chemistry Medical School University of Thessaloniki AUTh (Thessaloniki, 7-2-2008)
 - Assistant Professor of Biol. Chemistry Medical School University of Thessaloniki AUTh (Thessaloniki, 7-2-2008)
 - Lecturer in Biological Chemistry, Medical School, University of Larissa (Larissa, 5-5-2010)
 - Assistant Professor of Molecular Biochemistry, Medical School National and Kapodistrian University of Athens, 23-06-2016
 - Assistant Professor of Pharmacology, Department of Medicine, University of Ioannina, 21.9.2017

- Associate Professor of Microbiology, Department of Medicine, University of Ioannina, 23.3.2018
 - Researcher B', EKEVE Fleming, July 2018
 - Assistant Professor of Biochemistry with emphasis on Pathobiochemistry, Department of Medicine, University of Patras, 24.10.2018
 - Assistant Professor of Medical Biopathology-Microbiology and Hygiene, Department of Medicine, University of Ioannina, 4.02.2019
 - Assistant Professor of Clinical Chemistry, Department of Medicine, University of Ioannina, 26.3.2019
 - Assistant Professor of "Biochemistry", Department of Medicine, University of Patras, 4.4.2019
 - Assistant Professor of Cell Biochemistry, Department of Medicine, University of Thessaly, 07.05.2019
 - Assistant Professor of Medical Biochemistry, Department of Medicine, ATh, 10.03.2020
 - Professor of Pharmacology, Department of Medicine, University of Ioannina, 10.07.2020
 - Professor of "Biological Chemistry", Department of Medicine, EKPA, 24.02.2021
 - Assistant Professor of "Pharmacology", Department of Medicine, University of Ioannina, 12.04.2021
 - Associate Professor of Biochemistry-Molecular Biology, Department of Medicine, ATh, 30.06.2021
 - Professor of "Pharmacology", Department of Medicine, University of Ioannina, 14.09.2021
 - Assistant Professor of "Biology" Department of Medicine, University of Ioannina, 15.11.2021
 - Professor of "Biochemistry with emphasis on the study of receptors of pharmaceutical interest" Department of Pharmacy, University of Patras, 21.12.2021
- 2012-today** Member of the Admissions Committee for the evaluation of students aiming to enter the Department of Medicine, University of Ioannina
- 2012-2019** Responsible for organizing research and literature seminars of the Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and the Institute of Biomedical Research / FORTH
- 2015-2017** Member of the Internal Evaluation team (OMEA) of the Department of Medicine, University of Ioannina
- 2016** Member of the Organizing and Scientific Committee of the 67th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology, November 25-27, 2016, Ioannina
- 2016-2020** Member of the Scientific Council of the Institute of Molecular Biology and Biotechnology (IMBB/FORTH)
- 2017** Member of the Scientific Committee of the Pan-European conference on tissue engineering and regenerative medicine (TERMIS-EU), 28th Annual Conference of the European Society for Biomaterials, ESB 2017, 4-8 September 2017, Athens.
- 2017-today** Member of the Scientific Committee of the Flow Cytometry Unit of the Laboratory Network of the University of Ioannina
- 2017-today** Member of the Committee of the Curriculum of undergraduate studies of the Department of Medicine of the University of Ioannina
- 2017-today** Member of the Committee for drafting the Regulation for Doctoral Studies of the Department of Medicine of the University of Ioannina
- 2018-2020** Deputy Director, member of the Interdepartmental Committee and member of the Coordinating Committee of the Interdepartmental Postgraduate Program

"Molecular Cell Biology and Biotechnology" co-organized by the departments of Medicine, Biological Applications and Technologies and Chemistry of the University of Ioannina and the Institute of Biomedical Research of the Foundation for Research and Technology Hellas (FORTH).

- 2018-today** Member of the evaluation committee of candidates of the Program of Academic Experience, of the Medical School of the University of Ioannina
- 2020-today** Member of the Network of Research Support Facilities of the University of Ioannina
- 2020-2022** Member of the General Assembly of the Department of Medicine of the University of Ioannina.
- 2020** Participation in the writing and submission of a proposal for funding of the project "Innovation and Advanced Training Center of the Foundation for Research and Technology", funded by the Recovery Fund. Total budget for FORTH 56,271,056.00. Budget for the building of the Institute of Biomedical Research in Ioannina 12,816,888.00 Euro.
- 2021-today** Member of the Coordinating Committee of the Unified Electron & Photon Microscopy Unit of the University of Ioannina-FORTH
- 2019-today** Participation, as a member of the evaluation committee for the election:
- Level B Researcher "Regenerative Medicine for the treatment of human diseases including cell therapy with stem cells and tissue engineering" Department of Biomedical Research, IMBB/FORTH, 27.03.2019
 - Level A Researcher, Department of Biomedical Research, IMBB/FORTH, 10.04.2020
 - Researcher B or C Level in "Basic Biomedical Research", Institute of Biomedical Research/FORTH, 14.02.2022
- 2019-today**
- Head of the Institute of Biomedical Research at Ioannina, of the Foundation for Research and Technology Hellas (FORTH).
 - Invited member of the Board of Directors of FORTH, as a Head of the Institute of Biomedical Research of Ioannina, of the Foundation for Research and Technology Hellas (FORTH).

7. Supervision of undergraduate and postgraduate students

7.1. Supervision of undergraduate students in diploma studies (as supervisor)

A. Completed (name and year of award in bold)

- **Vasiliki Florou, 2005** "Generation of vesicles morphologically similar to Weibel-Palade bodies in BHK cells, after overexpression of von Willebrand factor conjugated to the fluorescent protein GFP" Diploma Thesis in the Program of Biochemistry (PSE), University of Ioannina and BRI FORTH.
- **Michaela Diamanti, 2008**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Identification of Rabs on the surface of Weibel-Palade bodies"
- **Zoe Tsianou, 2008**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Investigation of the putative location of VEGFR2 and ALK-4 receptors on lipid rafts" (co-supervised with Prof Theodoros Fotsis)
- **Georgia Fodelianaki, 2011**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Isolation and culture of human keratinocytes as a source for the production of induced pluripotent stem cells".

- **Vasiliki Roupaka, 2013**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Study of the kinetics of attachment of the RabGTPases with the membrane of Weibel-Palade bodies of endothelial cells"
- **Dimitris Angelidis, 2014**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Screening of small molecules to identify specific inhibitors of the activity of the oncogenic mutant PI 3-kinase"
- **Eleftherios Sinanis, 2019**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Study of the interaction between Rab5:GDP & ACAT2"
- **Chara Konstantakopoulou, 2019**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Expression and isolation of MYC and MAX proteins and establishment of a complex formation assay"
- **Panagiotis Lentzaris, 2021**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Establishment of in-vitro test for the formation of the MYC/MAX protein complex and study of the inhibitory activity of targeted chemical compounds".

B. Ongoing:

- **Konstantinos Giotakis**, Department of Biological Applications and Technologies, University of Ioannina, and BRI / FORTH, "Identification of new chemical inhibitors of the MYC/MAX complex, using in vitro cell free assay"
- **Styliani Tsiaga**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Study of the mechanisms of exocytosis in endothelial cells".

7.2. Supervision of Postgraduate students - Postgraduate Theses (as supervisor).

A. Completed (name and year of award in bold)

- **Vasiliki Kosti, 2001**, "Production in recombinant form of the anticoagulant factor CD39" Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Dimitris Basagiannis, 2009** "Study of the role of caveolae in VEGF receptor signalling", Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Thanasis Ziogas, 2011**, "The role of ACAT2 in endocytosis and signaling", Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Vallia Karamani, 2014**, "Identification of inhibitors of the activity of oncogenic mutant PI 3-kinase using targeted screening of small molecules" Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Maria Ketikoglou, 2016**, "Production of the oncogenic mutant forms of PI3Kinase in recombinant form and identification of specific inhibitors with possible pharmaceutical importance" Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Petros Tsalagradas, 2018**, "Study of the interaction between cytoplasmic acetoacetyl-CoA thiolase (ACAT2) and Rab5", Postgraduate Program "BIOTECHNOLOGY", University of Ioannina and BRI/FORTH.
- **Panagiotis Kliafas, 2020**, "Establishment of in-vitro MYC / MAX protein complex formation assay and study of the inhibitory effect of targeted chemical compounds", Postgraduate Program "Molecular Cell Biology and Biotechnology", University of Ioannina and BRI/FORTH.

B. Ongoing:

- Victoria Koloi, "Establishment of an assay for the measurement of galactin-1 protein levels in patho-physiological human serum samples" Postgraduate Program "Molecular Cell Biology and Biotechnology", University of Ioannina and BRI/FORTH.

- Athena Karra, "Identification of inhibitors of the MYC/MAX protein complex", Postgraduate Program "Medical Chemistry", University of Ioannina and BRI/FORTH.

7.3. Supervision of Doctoral Theses (as supervisor)

A. Completed (name and year of award in bold)

- **Agathi Papanikolaou, 2007**, "Regulation of the enzymatic activity and vesicular transport of the antithrombotic ecto-nucleotidase CD39: The role of membrane compartmentalization and transmembrane domains", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Sofia Zografou, 2011**, "Molecular mechanisms of regulated secretion in endothelial cells", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Ioannis Pandis, 2012** "Study on the role of microRNA in animal models of human autoimmune diseases" (supervisor of Thesis at the Fleming Institute: George Kollias)
- **Dimitris Basagiannis, 2013**, "The role of VEGFR2 compartmentalization in VEGF signalling", Postgraduate Program "Biotechnology", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Despina Gkeka, 2019**, "Spatiotemporal organization of RabGTPases in stimulated exocytosis in endothelial cells", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Evangeli Goula, 2019**, "Spatiotemporal coordination and mechanisms of communication between endocytosis and regulated exocytosis upon VEGFR2 signaling in endothelial cells", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Katerina Galanopoulou, 2020**, "Study of the role of RAB5-interacting proteins in endocytosis in endothelial cells: study of the role of the interaction between Rab5 and ACAT2 in endocytosis", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.

B. Ongoing:

- **Alexandra Papafotika**, "Development of an in vitro assay of the phosphatidylinositol 3-kinase activity (PI3KCA) and screening of molecules for the identification of specific inhibitors of its oncogenic forms", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Vasiliki Karamani**, "Screening of compounds for the identification of inhibitors of the oncogenic forms of Phosphatidylinositol 3-Kinase (PI3KCA) and study of their role in in vitro and in vivo tests", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.

7.4. Supervision of Doctoral Theses (as member of the advisory committee).

A. Completed (name and year of award in bold)

- **Christos Papadopoulos, 2009** "Design, synthesis and study of structural and modulatory characteristics of peptides with biological activity in the secretion and cellular connections of endothelial cells", Laboratory of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina.
- **Douchaniari Alexandra, 2010** "Role and mechanisms of intercellular connections in the function of the endothelial cell barrier", Laboratory of Biology, Medical School, University of Ioannina.

- **Eleftherios Kostaras, 2011** "The role of SARA protein complex proteins in signal transduction and the biological activity of TGF- β / activin", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Eudoxia Karali, 2012** "Functional characterization of genes that are regulated by VEGF", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Georgios Boukakis, 2014** "Study of the biological role of proteins with the ability to bind hnRNA and mRNA as well as the mechanisms of their deregulation in human lung cancer", Laboratory of Biological Chemistry, Medical School, University of Ioannina.
- **Markella Zannikou, 2014** "Anti-DNA monoclonal autoantibodies: Effect on angiogenesis and on the network of cytokines", Laboratory of Biological Chemistry, Medical School, University of Ioannina.
- **Nikoleta Kostopoulou, 2015** "Activin A receptors interacting proteins and their role in its signal transduction and biological function", Laboratory of Biological Chemistry, Medical School, University of Ioannina and BRI/FORTH.
- **Amalia Papadaki, 2015** "Study of the molecular mechanisms underlying Leishmania spp. survival within the phagocytes of the mammalian host", Laboratory of Biological Chemistry, Medical School, University of Ioannina.
- **Odysseas Patounas, 2017**, "Investigations on protein arginine methyltransferases in differentiation and cancer", Department of Biological Applications and Technologies, University of Ioannina and BRI/FORTH.
- **Iliana Serifi, 2018**, "Study of the functional role of the Set protein in the early developmental stages of the model organism Danio rerio (zebrafish)", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Roupaka Vassiliki, 2018**, "The role of intracellular labile iron in redox signal transductions", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina
- **Markou Maria, 2020**, "Molecular mechanisms of VEGF in vasculogenesis and applications in regenerative medicine", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Panagiota Lazou, 2021**, "Study of the polymorphisms in purine-pyrimidine transporters of pathogenic and non-pathogenic bacteria", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and IBE / FORTH.
- **Evangelos Drougas, 2021**, "Molecular mechanisms of asymmetric cell division during stem cell differentiation", Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Maria Chatziathanasiadou, 2021**, "Biological evaluation of the anticancer activity of bioactive natural products, their analogues and formulations", Department of Chemistry, University of Ioannina

B. Ongoing:

- **Eftychia Aggelou**, "Biophysical and Biochemical study of the functional interactions of the Ras/Rab protein family" Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis
- **Dimitrios Hatzis**, "The diagnostic and prognostic significance of Galectin-1 and von-Willebrand factor proteins in deep vein thrombosis." Surgery Clinic, Department of Medicine, University of Ioannina
- **Tzouvara Olympia**, EKPA, "Phosphoinositide phosphatases and proteins with phosphoinositide binding domains of the Leishmania parasite: Characterization of two

representative molecules and study of their role in the parasite life cycle and mammalian host infection"

- **Evangelia Athanailidou**, Department of Biological Applications and Technologies, University of Ioannina, and BRI/FORTH, "Investigation on the role of SAF-A in the epigenetic regulation of nuclear architecture".
- **Fotini Papagavriil**, Department of Biology, University of Crete, and IMBB/FORTH, "Biophysical study of liposome-capturing molecules".
- **Alexandra Polyzou**, Laboratory of Pharmacology, Department of Medicine, University of Ioannina, "Study of the role of LPPR (Lipid Phosphate Phosphatase-Related) proteins in the signaling of extracellular lipid agonists in the nervous system"
- **Marianna Gorezi**, Department of Chemistry, University of Ioannina, "Development of innovative dyes that emit near-infrared light with the aim of using them as markers of cellular organs, therapeutic and diagnostic molecules"
- **Apostolos Galaris**, "Discovery of new genes involved in the pathophysiology of Idiopathic Pulmonary Fibrosis (IPF)" Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina (employed in Fleming, under the supervision of Mr. Vassilis Aidinis)
- **Simoni Besta**, "Study of the mechanism of action of CHUK / IKK α kinase and other tissue specific protein kinases in lung cancer" Laboratory of Biology, Department of Medicine, University of Ioannina and BRI/FORTH.
- **Eleni Vassi**, "Design and in vitro evaluation of new synthetic inhibitors of c-Myc oncoprotein activity" Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina and BRI/FORTH.

7.5. Supervision of Post-doctoral fellows

- **Agathi Papanikolaou, 2007-2009**. "The role of Rab5 effectors in the regulations of activin signalling" BRI/FORTH.
- **Sofia Zografou, 2012-2017**, "Development of a method for differentiation of pluripotent stem cells into hemangioblasts and endothelial cells." BRI/FORTH.
- **Dimitris Basagiannis, 2014-2017**, "The role of VEGFR2 endocytic pathways in angiogenesis", BRI/FORTH.
- **Vasiliki Lazani, 2012-2015**, "Oncogenic Mutations of Phosphoinositide-3-Kinase in Breast and Colon Cancers: Development of Targeted Anticancer Drugs and Diagnostic markers" BRI/FORTH.
- **Despina Gkeka, 2020-2021**, "Study of the spatio-temporal organization of Rab GTPases in exocytosis of endothelial cells" BRI/FORTH.
- **Evangelia Goula, 2020-2021**, "Spatio-temporal organization and communication mechanisms between endocytosis and regulated exocytosis in endothelial cells" BRI/FORTH.

8. Distinctions

8.1. Scholarships, awards and other distinctions

- 1986-1990** State scholar for excellence in undergraduate studies, **IKY**, rank: 2nd.
- 1990** Benaki-Prize for undergraduate studies, Greece
- 1991-1993** G.Stavrou scholarship for PhD studies, Greece
- 1993-1995** Exceptional Graduate Scholar for PhD studies, **EMY**, Greece

- 1997-1999** Post-doctoral Research Fellow of the Training and Mobility of Researchers program of EU-FP4 (**Marie Curie TMR program**).
- 1999-2000** Post-doctoral Research Fellow of the Max-Planck Institute, Dresden, Germany
- 2000-2001** Return grant, **Marie Curie** individual research fellowship, EU-FP5, (Training and Mobility of Researchers), Medical School, University of Ioannina
- 2001-2004** **EMBO Young Investigator award** (<https://yip-search.embo.org/#/yip/2421>)
- 2001-today** Collaborating Researcher of the Institute of Biomedical Research/Ioannina, Foundation for Research and Technology Hellas
- 2016-2020** **Member of the Scientific Council** of the Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas.
- 2016** Member of the **Organizing and Scientific Committee** of the 67th meeting of the Hellenic Society of Biochemistry and Molecular Biology, Ioannina, Greece, 25-27 Nov, 2016
- 2016** **1st Award for research and presentation:** Basagiannis D, Zografou S, Murphy C, Fotsis T, Morbidelli L, Ziche M, Bleck C, Mercer J and Christoforidis S, "Endocytic routes in control of VEGFR2 function: Protection of the receptor and regulation of signaling" 67th HSBMB meeting, Ioannina, Greece, 25-27 Nov, 2016
- 2017** Member of the **Scientific Committee** of the 28th Conference of the European Society for Biomaterials, Tissue engineering and regenerative medicine" TERMIS-EU, ESB 2017, 4-8 September 2017, Athens.
- 2018** **1st Award for research and presentation:** E. Goula, V. Lazani, M. Aivaliotis, and S. Christoforidis, "Unconventional secretion in endothelial cells: Cytoplasmic galectin-1 enters Weibel-Palade bodies", 69th HSBMB meeting, Larisa, Greece, 23-25 Nov, 2018
- 2019** **1st Award for research and presentation:** K. Galanopoulou, T. Ziogas, D. Basagiannis, S. Zografou, A. Papanikolaou, M. Aivaliotis, M. Zerial and S. Christoforidis, "The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2), a novel Rab5 effector, regulates endocytic membrane transport" 70th HSBMB Annual Conference, 29.11-01.12, 2019, Athens
- 2019** **Head** of the Institute of Biomedical Research at Ioannina, FORTH

8.2. Invited speaker

1. Title of talk: "Molecular mechanisms of intracellular vesicular transport in the endocytic pathway." Hellenic Biochemical and Biophysical Society Meeting, Athens, December, 2001.
2. Title of talk: "Molecular mechanisms in the pathway of endocytosis. Implications in the function of ecto-ATPases." (EMBO Young Investigator Lecture). Third International Workshop on Ecto-ATPases and Related Ectonucleotidases. Metabolism of Extracellular Nucleotides: Secretion, Hydrolysis, Signaling, Woods Hole, 15 - 20 September, 2002
3. Title of talk: "The thromboregulatory role of endothelial cells" EMBO Young Investigator meeting, Heidelberg, Germany, 10-12 April 2002.
4. Title of talk: "Molecular mechanisms of H₂O₂-induced DNA damage: The action of desferrioxamine" FREE RADICAL RES 37: 35-35 Suppl. 1 2003. Free Radicals and Oxidative Stress: Chemistry, Biochemistry and Pathophysiological Implications, Meeting

- of the Society for Free Radical Research – European Section, Ioannina, Greece, June 26-29, 2003.
5. Title of talk: "Understanding of the diversity of endocytic organelles by visualizing the effectors of the small GTPase Rab5" Modern Light Microscopy Techniques in Biomedical Research, University of Crete, Crete, October 31-Nov 4, 2005.
 6. Title of talk: "Interconnections between signal transduction, exocytosis and endocytosis in endothelial cells", 1st Molecular Oncology & Targeted Therapy Training Seminar for Clinical Oncologists, Metsovo, March 30 - April 1, 2007
 7. Title of talk: "Signalling and trafficking in endothelial cells" EMBO Young Investigator meeting, Istanbul, Turkey, 13-15 May 2009.
 8. Title of talk: "Meeting of the Greek Interest Group in Advanced Microscopy", BRFA, Athens, June 1st, 2010.
 9. Title of talk: "The role of transmembrane domains in polarized transport and function using as a model protein the ecto-nucleotidase CD39." EMBO Young Investigator sectorial meeting, Polarity and Neuro, Orsay-Paris, 25-27 May, 2011.
 10. Title of talk: "Interrelationship between trafficking and signaling of VEGFR2 in endothelial cells" EMBO Young Investigator sectorial meeting, Cancer meeting, London UK, July 11-12, 2011.
 11. Title of talk: "Coordination between exocytosis, endocytosis and signaling." 62nd Conference of the Hellenic Society of Biochemistry and Molecular Biology, Athens, December 9-11, 2011.
 12. Title of talk: "Endocytosis and Exocytosis in Vascular Biology and de novo Differentiation of the Endothelial Lineage" MOBI4Health Meeting and Conference Bioinnovation & ScanBalt Forum 2013 Gdańsk, 16-18 October 2013.
 13. Title of talk: "Study of endo- and exo- cytosis using high resolution microscopy approaches" Department of Molecular Biology and Genetics, University of Thrace, Alexandroupolis, 14-12-2013.
 14. Title of talk: "The endothelial ecto-NTPdase1/CD39 exerts potent anti-platelet activity by hydrolyzing extracellular ADP" Advanced Learning on Platelets & Thrombosis International Course, ALPIC 2014, Metsovo, Greece, 7-9 March, 2014
 15. Title of talk: "Role of vesicular transport in blood vessel formation" EMBO Young Investigator sectorial meeting in tissue morphogenesis, Dresden, Germany, 7-9 Feb, 2016.
 16. Title of talk: "Role of vesicular transport in blood vessel physiology", European Network on Microvesicles and Exosomes in Health and Disease, Training course on "Extracellular Vesicles & Exosomes: Analysis and Properties", Ioannina, March 1-3, 2016
 17. Title of talk: "Angiogenesis in cancer: The role of VEGF receptor endocytosis", Open Educational Program "Molecular Medicine", Department of Medicine, University of Thessaly, April 21, 2016
 18. Title of talk: "Oncogenic Mutations of Phosphoinositide-3-Kinase in Breast and Colon Cancers: Development of Targeted Anticancer Drugs" 13th Training Seminar of Molecular Oncology & Targeted Therapy | 29 & 30 March 2018, Ioannina
 19. Title of talk: "The role of intracellular vesicle transport in signal transduction" Department of Medicine and MSc in Biomedical Sciences, University of Patras, 2022

20. Title of talk: "The role of brain vessels in Alzheimer's disease: Existing knowledge and new experimental approaches", Conference of the Hellenic Initiative Against Alzheimer's (HIAAD), Ioannina 2022

8.3. Reviewer of International Scientific Journals

1. EMBO (Impact factor 12,459)
2. EMBO Reports (Impact factor 6,046)
3. Proceedings of the National Academy of Sciences of the United States of America, PNAS (Impact factor 9,38)
4. Biochemical Pharmacology (Impact factor 3,34)
5. Journal of Cell Science (Impact factor 6,11)
6. Biochemical Journal (Impact factor 4,4)
7. Experimental Cell Research (Impact factor 3,3)
8. Purinergic Signalling (Impact factor 3,02)
9. FASEB Journal (Impact factor 5,19)
10. International Journal of Molecular Sciences (Impact factor 5,923)

8.4. Reviewer of Fellowships

1. Reviewer of EMBO Long term fellowships
2. Reviewer of EMBO Short term fellowships
3. Reviewer of PhD fellowships for the Hellenic Foundation for Research and Innovation (HFRI)
4. Reviewer of "Niarchos Foundation Fellowships" (IMBB-FORTH).
5. Reviewer of the Greek State Scholar Fellowships (IKY)

8.5. Reviewer of Research Grants

1. Fondation pour la Recherche Medicale, France
2. Portuguese Foundation for Science and Technology (FCT)
3. Operational Programme «Human Resources Development, Education and Lifelong Learning», Ministry of National Education and Religions, Heraclitus Program.
4. Vidi program (Innovational Research Incentive Scheme) 2015, The Netherlands.
5. Program for support of Researchers, with emphasis on young researchers, EDBM34.
6. EU Horizon 2020, Spreading Excellence and Widening Participation programme, 2019 Twinning.
7. EU Horizon Europe, Spreading Excellence and Widening Participation programme, 2021 Twinning Western Balkans.
8. Venture Discovery Fund of the Richman Family Precision Medicine Center of Excellence in Alzheimer's Disease at Johns Hopkins (2021)

8.6. Member of Scientific Societies

- Hellenic Society of Biochemistry and Molecular Biology
- Hellenic Society of Biology
- The Society of Greek Chemists
- American Association for the Advancement of Science
- European Light Microscopy Initiative, ELMI.
- Hellenic Bioimaging Society

8.7. Member of European Expert Networks

- Member of the Young Investigators Program of the European Molecular Biology Organization (EMBO YIP) and reviewer of short and long term fellowships of this Organization.
- Member of the European Network «Tracking the Endocytic Routes of Polypeptide Growth Factor Receptor Complexes and their Modulatory Role on Signalling (EndoTrack).» FP6 Integrated Project of EC (2006-2010 – Contract No LSHG-CT-2006-019050). Coordinator: Prof. M. Zerial
- Member of the European Network «Pulmonary Hypertension: Functional Genomics and Therapy of Lung Vascular Remodelling (Pulmotension)» FP6 Integrated Project of EC (2006-2010 – Contract No LSHM-CT-2006-018725). Coordinator: W. Seeger (Coordinator for the University of Ioannina: S. Christoforidis)
- Member of the European Light Microscopy Initiative (ELMI).
- Member of the scientific advisor committee in MOBI4HEALTH, FP7-REGPOT, 2013-2017, “Molecular Biotechnology solutions bringing health to living organisms and environment supported by mass spec-focused research platform uncovering cellular functions of molecules”

8.8. Member of the examining committee of PhD Theses

From 2004 until 2022: Participation in the seven-member examining committees in 46 Doctoral Theses employed in University Institutions of the country.

8.9. Member of the examining Committee of Postgraduate (Master) Theses

From 2004 until 2022: Participation in the five-member examining committees in 23 Postgraduate Theses (Master’s) employed in University Institutions of the country.

9. Research Interests and members of the team

Main research direction: **“Study of the mechanisms of intracellular vesicular transport in endothelial cells and implications in vascular physiology”**

9.1. Brief description of research

Our group studies the interplay between endocytosis, signaling and exocytosis in endothelial cells and the role they play in vascular physiology.

Activated endothelial cells and/or endothelial dysfunction are implicated in the most life-threatening diseases, such as cardiovascular and inflammatory diseases as well as in cancer-angiogenesis. Intriguingly, key vasoactive players of the above pathophysiological processes are stored in specific granules (called Weibel Palade bodies) in endothelial cells. Upon activation of receptors at the cell surface of endothelial cells, Weibel Palade bodies fuse with plasma membrane and release their vasoactive molecules in the blood stream.

Our studies have the following aims:

1. To shed light on the molecular mechanisms that are responsible for Weibel Palade body trafficking and exocytosis.
2. To identify the cell surface receptors and the corresponding signaling cascades that trigger Weibel Palade body exocytosis.
3. To track the endocytic routes followed by activated receptors of endothelial cells and the role of these routes in signaling and Weibel Palade body exocytosis.
4. To get functional insights into the role of the above processes in vascular physiology and in serious vascular diseases.

These studies will shed light on the molecular and functional links between secretion, endocytosis and signalling, as well as on their spatial and temporal coordination. Ultimately, the knowledge generated by these studies will contribute to the design of more effective therapeutic approaches for vascular diseases.

For more information:

- <https://www.bri.forth.gr/en/research-en/item/117-savvas-christoforidis>
- <https://www.bri.forth.gr/bri-people/en/christoforidis-laboratory>

Other projects in the lab include:

- Identification of chemical allosteric inhibitors of the oncogenic mutants of PI3Kinase, as well as inhibitors of the oncogene cMyc (in close collaboration with teams from BRFAA/Athens).
- The role of a new interaction of the small GTPase Rab5 (in collaboration with the group of Marino Zerial, MPI-CBG/Dresden).

9.2. Members of the research group (<https://www.bri.forth.gr/bri-people/en/members-christoforidis>)

Current members and position

- Alexandra Papafotika, PhD Candidate
- Vasiliki Karamani, PhD Candidate
- Victoria Koloi, Postgraduate student
- Panagiotis Lentzaris, Postgraduate student
- Athina Karra, Postgraduate student
- Konstantinos Giotakis, Undergraduate student
- Stella Tsiaga, Undergraduate student

Past members (alumni) and position

- Katerina Galanopoulou, PhD Candidate and Postdoctoral Fellow
- Despina Gkeka, PhD Candidate and Postdoctoral Fellow
- Evangelia Goula, PhD Candidate and Postdoctoral Fellow
- Vasiliki Lasani, Postdoctoral Fellow
- Sofia Zografou, PhD Candidate and Postdoctoral Fellow
- Dimitris Basagiannis, PhD Candidate and Postdoctoral Fellow
- Agathi Papanikolaou, PhD Candidate / Postdoctoral Fellow
- Panagiotis Kliafas, Postgraduate student
- Petros Tsalagradas, Postgraduate student
- Athanasios Ziogas, Postgraduate student
- Maria Balatsou, Postgraduate student
- Maria Ketikoglou, Postgraduate student
- Vasiliki Kosti, Postgraduate student
- Eleftherios Sinanis, Undergraduate student
- Chara Konstantakopoulou, Undergraduate student
- Dimitris Angelidis, Undergraduate student
- Vasiliki Roupaka, Undergraduate student
- Georgia Fodelianaki, Undergraduate student
- Michaela Diamanti, Undergraduate student
- Zoi Tsianou, Undergraduate student
- Vicky Florou, Undergraduate student

10. Collaborations

Collaborations with institutions from abroad

- Marino Zerial, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany.
- Temo Kurzchalia, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany.
- Kai Simons Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany.
- Rob Parton, School of Biomedical Sciences, University of Queensland, Australia.
- Sandy Schmid, The Scripps Research Institute, La Jolla, USA.
- Christian Gachet, INSERM, Etablissement Francais du Sang-Alsace, Strasbourg, France.
- Herbert Zimmerman, Biozentrum der J.W. Goethe-Universitat, AK Neurochemie, Frankfurt am Main, Germany.
- Mitsunori Fukuda, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University, Miyagi, Japan
- Hisanory Horiuchi, Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto University, Japan
- Simon Robson, Department of Medicine and Surgery, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts, USA.
- Jason Mercer, MRC-Laboratory for Molecular Cell Biology, University College London, Gower Street, London WC1E 6BT, UK
- Lucia Morbidelli & Marina Ziche, Department of Life Sciences, University of Siena, Via Aldo Moro 2, 53100, Siena, Italy

Past and present collaborations with institutions of the country

- Theodoros Fotsis, Professor, Laboratory of Biological Chemistry, Medical School, University of Ioannina and Institute of Biomedical Research, Ioannina
- Carol Murphy, Researcher B', Institute of Biomedical Research, Ioannina
- Evangelos Kolettas, Laboratory of Biology, Medical School, University of Ioannina and Institute of Biomedical Research, Ioannina
- Thomais Papamarkaki, Laboratory of Biological Chemistry, Medical School, University of Ioannina and Institute of Biomedical Research, Ioannina
- Dimitrios Galaris, Laboratory of Biological Chemistry, Medical School, University of Ioannina
- Charalambia Boleti, Researcher C, Hellenic Pasteur Institute
- Panagiotis Kouklis, Assistant Professor of Biology, Medical School, University of Ioannina
- Andreas Papapetropoulos, Professor, University of Patras
- Vassilios Tsikaris, Laboratory of Biochemistry, Department of Chemistry, University of Ioannina
- Alexandros Tselepis, Laboratory of Biochemistry, Department of Chemistry, University of Ioannina
- Argyris Efstratiadis, The Biomedical Research Foundation (BRFAA) of the Academy of Athens
- Konstantinos Tamvakopoulos, The Biomedical Research Foundation (BRFAA) of the Academy of Athens
- Zoe Kournia, The Biomedical Research Foundation (BRFAA) of the Academy of Athens
- Pavlos Agianian, Department of Molecular Biology and Genetics, Democritus University of Thrace
- Anastasios Troganis, Department of Biological Applications and Technologies, University of Ioannina.

11. Research Funding

Total number of grants: 28, Principal Investigator in 11 grants, total funding for the group of Christoforidis: 1,508,814.00 Euro.

- 2000-2001** Marie Curie Individual Return grant, TMR-EC (Training and Mobility of Researchers), EU-FP5, 51,600 Euro (*Principal Investigator*)
- 2002-2003** Research committee, University of Ioannina, "Molecular mechanisms controlling the anti-thrombotic properties of ATP diphosphohydrolase, 5,870 Euro. (scientific responsible)
- 2002-2005** General Secretary of Research and Technology Hellas, PENED Program, 2001/01EΔ585 "Signal transduction and intracellular membrane trafficking in endothelial cells" 44,021 Euro for our team. (participant)
- 2002-2005** EMBO Young Investigator award. «The role of endocytosis and secretion in the antithrombotic function of EC.», 55,000 Euro (scientific responsible).
<http://www.embo.org/programmes/yip.html>
- 2004-2005** Human Networks R&D training GSRT (2003-2005). «Applications of light microscopy methods in Biomedical Research and Diagnosis" 180,000 Euro (37,153 Euro for the University of Ioannina, 3,715 Euro for our team). (participant).
- 2005-2006** Pythagoras II program. «Plasma membrane and signal transduction: The role of lipid microdomains» 50,000 Euro, 16,667 for our team (Participant)
- 2005-2008** PENED 2003, GSRT, «Inter-relationships between molecular mechanisms of signal transduction, cytoskeleton and secretion in thrombosis and inflammation of endothelium», 199,080 Euro, 66,360 for our team. (Participant)
- 2006-2009** «Tracking the Endocytic Routes of Polypeptide Growth Factor Receptor Complexes and their Modulatory Role on Signalling. Endotrack» Integrated Project, FP6-2004-LIFESCIHEALTH-5, EU 6th Framework Programme, Total Budget of the Ioannina teams 702,363 Euros, 234,121 Euros for the Christoforidis team (Participating faculty member of the research team from Ioannina.)
- 2006-2009** «PULMONARY HYPERTENSION: Functional Genomics and Therapy of Lung Vascular Remodelling. Pulmotension» Integrated Project, FP6-2004-LIFESCIHEALTH-5, EU 6th Framework Programme LIFESCIHEALTH, Total Budget of Ioannina teams 322,078 Euro, 107,359 Euro for the Christoforidis team (Co-applicant and scientific responsible for the group of teams of Ioannina)
- 2010-2012** «The role of VEGFR2 compartmentalization in VEGF signalling» Heraklitos II program, Greek Ministry of Education, 45,000 Euro. (Scientific responsible)
- 2010-2013** «PIK3CA Oncogenic Mutations in Breast and Colon Cancers: Development of Targeted Anticancer Drugs and Diagnostics» (NSRF 2014-2020), Cooperation, Large Scale Cooperative Projects, 189,000 Euro for the teams in Ioannina, 63,000 Euro for our team (participant)
- 2010-2013** "Mechanisms of Induced Pluripotency: From transcriptional noise to stem cell therapies" (NSRF 2014-2020), Cooperation, Large Scale Cooperative Projects, 635,000 Euro for the teams in Ioannina, 75,000 Euro for our team (participant)
- 2012-2015** Cross-Border Cooperation within the European Neighbourhood and Partnership Instrument (ENPI), Mediterranean Sea Basin Joint Operational Programme, "Mobility, exchanges, training and professionalism of young experts from the Mediterranean basin in the field of safety evaluation and risk

- assessment of botanicals." "BRAMA", 15,000 Euro for our team (participant)
- 2013-2015** "Thrombosis and Inflammation: The diagnostic and therapeutic significance of the secretory mechanism of endothelial cells" Epirus Region Operational Programme "New Knowledge", 150,000 Euro (Scientific responsible)
- 2013-2015** "Basic mechanisms of differentiation of stem cells", GSRT, Ministry of Education and Religions, Kripis Program, 45,000 Euro for the lab (participant)
- 2013-2015** Operational Programme "Education and Lifelong Learning", Aristeia II, "Endocytosis, regulated secretion, and signalling in endothelial cells: Coordination, molecular mechanisms and implications in blood vessel diseases." budget 177,000 Euro. (Scientific responsible)
- 2015-2017** Excellence Programme of IKY/Siemens, "Correlation between metabolism, endocytosis and signal transduction: Characterization of the role of the interaction between the metabolic enzyme ACAT2 and the small GTPase Rab5.", budget 49,300 Euro (Scientific responsible)
- 2015-2017** GSRT, Siemens Grant, Biology - Biophotonics - Health: "Modern Technological Approaches and Applications in the Field of Biology, Biophotonics and Health", Budget for Ioannina: 120,000 Euro, 25,704 Euro for the lab (participant)
- 2016-2018** Ministry of Education and Religious Affairs, National Roadmap for Research Infrastructures, Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020), KRHPIS II, "Advanced research activities in Biomedical Technology and Agridiet", Budget for Ioannina: 480,000 Euro, 45,000 Euro for the lab (participant)
- 2017-2018** Directorate of Scholarships (IKY), Awarded PhD student of our team: Evangelia Goula, Title: "Spatiotemporal coordination and mechanisms of communication between endocytosis and regulated exocytosis upon signalling by VEGFR2", 12,240 Euro (Scientific responsible)
- 2017-2018** Directorate of Scholarships (IKY), Awarded PhD student of our team: Despina Gkeka, Title: "Study of spatiotemporal coordination of RabGTPases in regulated exocytosis in endothelial cells", 12,240 Euro (Scientific responsible of the PhD student)
- 2017-2020** Ministry of Education and Religious Affairs, National Roadmap for Research Infrastructures, (NSRF 2014-2020), "BioImaging-GR: The Greek Research Infrastructure for the Imaging and Monitoring of Fundamental Biological Processes", Budget for the infrastructure in Ioannina: 204,500 Euro (Responsible for the Ioannina team)
- 2017-2020** Ministry of Finance, Call EΔBM34 for the "Support of researchers with emphasis on young researchers" (NSRF 2014-2020), Proposal Title: "Mechanisms of Differentiation of Stem Cells into Endothelial Cells" 72,100 Euro (Scientific responsible)
- 2019-2020** Program ARCHERS of the Stavros Niarchos foundation, fellowship awarded to Katerina Galanopoulou, PhD student of our team. Title: "Interconnections between metabolism and endocytosis: elucidation of the role of a new interaction between Rab5 and the cytoplasmic thiolase ACAT2", 11,313 Euro (Scientific responsible of the PhD student)
- 2019-2021** "Regulation of stem cell differentiation via endocytosis." Co-financed by Greece and the European Union (European Social Fund-ESF) through the Operational Programme «Human Resources Development, Education and Lifelong Learning» in the context of the project "Reinforcement of Postdoctoral Researchers - 2nd Cycle" (MIS-5033021), implemented by the State

Scholarships Foundation (IKY). Budget: 19,605 Euro (Scientific responsible of the fellow)

- 2019-2021** “Study of the molecular mechanism of galectin-1 entry into Weibel Palade bodies and exocytosis, in endothelial cells”, Co-financed by Greece and the European Union (European Social Fund-ESF) through the Operational Programme «Human Resources Development, Education and Lifelong Learning» in the context of the project “Reinforcement of Postdoctoral Researchers - 2nd Cycle” (MIS-5033021), implemented by the State Scholarships Foundation (IKY). Budget: 19,605 Euro (Scientific responsible of the fellow)
- 2019-2022** Ministry of Finance, "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) "Innovative development of new anticancer drugs with a therapeutic target for the oncoprotein MYC", Total budget 1,000,000 Euro, Budget for Ioannina: 42,500 Euro (participant)
- 2020-2023** Hellenic Foundation for Research and Innovation (HFRI), Research grants for Academic Staff and Researchers «Drugging Protein-Membrane Interfaces: A Novel Approach for Targeted Drug Design», (participant, 26,339.00 Euro for the group of Christoforidis)

Pending application:

- 2022-2025** EU-Horizon, Spreading Excellence and Widening Participation programme, Twinning “Strengthening excellence in cellular communication at a systems level” Acronym: COUNSEL, Total Budget 1,500,000.00 Euro (coordinator)

12. Publications in Conferences (Greek and International)

12.1. Publications in Greek Conferences (abstract or poster or oral presentations)

1. S. Christoforidis, D. Galaris, T. Papamarkaki and O. Tsolas. Purification and characterization of ATP diphosphohydrolase from human term placenta. 9th Balkan Biochemical and Biophysical Days, Thessaloniki, 21-23 May, 1992 (abstract and oral presentation).
2. S. Christoforidis, T. Papamarcaki, D. Galaris, and O. Tsolas. Subcellular localization of human placental ATP diphosphohydrolase. Hellenic Biochemical Biophysical Society Meeting, Larissa, 7-8 May, 1993 (abstract, poster).
3. S. Christoforidis, T. Papamarcaki and O. Tsolas. Antibodies to ATP diphosphohydrolase from human term placenta recognize a glycosylated (82 kDa) and a deglycosylated (57 kDa) form. Hellenic Biochemical and Biophysical Society Meeting, Athens, 21 - 22 January, 1994 (abstract, poster).
4. S. Christoforidis, C. Schnatwinkel, and M. Zerial, Molecular mechanisms of intracellular vesicular transport in the endocytic pathway, Hellenic Biochemical and Biophysical Society Meeting, Athens, December, 2001 (**invited speaker**)
5. Papanikolaou, C. Murphy, T. Papamarcaki, O. Tsolas, A. Papafotika, T. Fotsis, and S. Christoforidis. The ecto-nucleotidase CD39 is targeted to the apical surface of polarized cells and colocalizes with actin. Hellenic Biochemical and Biophysical Society Meeting, Athens 2003, (abstract, poster).
6. Papanikolaou, A. Papafotika, J. Mitsios, A. Tselepis, M. Drak, T. Kurzchalia, O. Tsolas, and S. Christoforidis. Cholesterol-dependent lipid microdomains regulate the function of

- the anti-thrombotic factor CD39. Hellenic Biochemical and Biophysical Society Meeting, Larisa 2004, (abstract and oral presentation).
7. Christoforidis S. "Understanding of the diversity of endocytic organelles by visualizing the effectors of the small GTPase Rab5" Modern Light Microscopy Techniques in Biomedical Research, University of Crete, Crete, October 31-Nov 4, 2005. **(invited speaker)**
 8. A. Petrou, S. Christoforidis, Pathophysiology of hypoxia in apnea. A brief consideration. The Greek E-Journal of Perioperative Medicine 2006; 4: 15-36 (full paper in a Greek magazine)
 9. Papanikolaou, A. Papafotika, and S. Christoforidis. Transmembrane/cytoplasmic domains of the anti-thrombotic factor CD39 play determining role in transport and enzymatic activity. 58th Meeting of Hellenic Society of Biochemistry and Molecular Biology, 9-11 November 2006, Patras, Greece. (abstract, poster).
 10. S. Christoforidis "Interconnections between signal transduction, exocytosis and endocytosis in endothelial cells", 1st Molecular Oncology & Targeted Therapy Training Seminar for Clinical Oncologists, Metsovo, March 30 - April 1, 2007 **(invited speaker)**
 11. S. Zografou, A. Papafotika, C. Xilouri, E. Mortz, S. Wilhelm, K. Rutschmann, D. Auerbach, H. Aygón and S. Christoforidis. Rab27a: A positive regulator of Weibel-Palade body exocytosis in endothelial cells. 59th Meeting of Hellenic Society of Biochemistry and Molecular Biology, 7-9 Dec. 2007, Athens. (abstract, poster)
 12. Christos Papadopoulos, Savvas Christoforidis, Sofia Zografou, Alexandra Ntouhaniari, Panagiotis Kouklis and Vassilios Tsikaris "Influence of CDC42 derived peptides conjugated to a Cell Penetrating Sequential Carrier on rearrangement of actin and Weibel-Palade Bodies secretion" 6th Hellenic Forum on Bioactive Peptides, Patras, 18-20 May 2008 (abstract, poster)
 13. C. Boleti, D. Smyrli, S. Christoforidis, P. Mavromara, "Study of anchoring and retention Sequences in the endoplasmic reticulum (ER) of the hepatitis C virus NS4B protein: Fusion of NS4B with the plasma Membrane CD39 reveals an experimental system for the identification of membrane protein retention sequences in ER" 30th Annual Scientific Conference of the Hellenic Society of Biological Sciences. Thessaloniki, 22-24 May 2008. (abstract, poster)
 14. D. Basagiannis, M. Drab, C. Xilouri, H. Aygon, S. Christoforidis. The role of Caveolae in VEGFR-2 signaling and endothelial cell migration. 60th Meeting of Hellenic Society of Biochemistry and Molecular Biology, 20-22 Nov 2009, Athens. (abstract, poster)
 15. Christos Papadopoulos, Sofia Zografou, Alexandra Ntouhaniari, Eleana Papadopoulou, Panagiotis Kouklis, Savvas Christoforidis and Vassilios Tsikaris. "Cdc42 derived peptides conjugated to a new cell penetrating sequential carrier (CPSC) and their effect on the rearrangement of actin and Weibel-Palade bodies secretion" 7th Hellenic Forum on Bioactive Peptides, Patras, 16-17 May 2010. (abstract, poster)
 16. Ziogas A., Papanikolaou A., Pappas N., Korn K., Moebius C., Fotsis T., Fava E., Murphy C., Zerial M. and Christoforidis S., "Identification of Rab5 effectors involved in activin A signaling", 61st EEBMB, 15-17 Okt, 2010, Alexandroupolis, Greece. (abstract, poster)
 17. Basagiannis D., Zografou S., Xilouri C., Murphy C., Fotsis T. and Christoforidis S. "Dynamin-mediated endocytosis is indispensable for VEGF-induced Palade body exocytosis but redundant for VEGFR2 degradation." 62nd EEBMB, Athens, Greece, 9-11 Dec, 2011. (abstract, poster)
 18. Sofia Zografou, Dimitris Basagiannis and Savvas Christoforidis, "Coordination between exocytosis, endocytosis and signaling." 62nd EEBMB, Athens, Greece, 9-11 Dec, 2011. **(abstract, invited speaker)**.

19. Maria Pavlaki, Eftychia Angelou, Jonathan Popplewell, Savvas Christoforidis, Zoe Cournia, Pavlos Agianian, "Surface Plasmon Resonance in the investigation of protein membrane interactions" 64th HSBMB, Athens, Greece, 6-8 Dec, 2013. (Poster-abstract).
20. Ntouhaniari D. Alexandra, Kalimanis A., Christoforidis S. and Kouklis P. "The cadherin topology in endothelial cells is influenced by plasma membrane microdomains." 64th HSBMB, Athens, Greece, 6-8 Dec, 2013. (Poster-abstract).
21. E. Kouvari, O. Argyros, P. Marakos, N.Pouli, N. Lougiakis, S.Christoforidis, E. Mikros, L.Skaltsounis C. Tamvakopoulos, "Identification and development of structurally novel inhibitors against the H1047R mutant of PI3K α ." 8th Conference of the Hellenic Society for Basic and Clinical Pharmacology, Athens, Greece, 23-25 May 2014. (Poster-abstract).
22. Lazani V, Papafotika A, Ioannou M, Aivaliotis M, and Christoforidis S, "A proteomic approach to get insights into the role of Weibel Palade bodies of Endothelial cells in thrombosis and angiogenesis", 65th HSBMB meeting, Thessaloniki, Greece, 28-30 Nov, 2014. (Poster-abstract).
23. Basagiannis D, Zografou S, Murphy C, Fotsis T, Morbidelli L, Ziche M, and Christoforidis S, "Distinct endocytic routes play discrete roles in VEGFR2 signalling", 65th HSBMB meeting, Thessaloniki, Greece, 28-30 Nov, 2014. (Poster-abstract).
24. Zografou S, Bagli E, Basagiannis D, Mantzaris M, Murphy C, Fotsis T, Christoforidis S "VEGFR2 endocytic routes and vascular development", 65th HSBMB meeting, Thessaloniki, Greece, 28-30 Nov, 2014. (Poster-abstract).
25. Gkeka P, Evangelidis T, Pavlaki M, Lazani V, Christoforidis S, Agianian B, and Cournia Z "Investigating the structure and dynamics of the PIK3CA wild-type and H1047R oncogenic mutant." IXth Joint Meeting in Medicinal Chemistry, Hellenic Society of Medicinal Chemistry, 7-10 June 2015, Athens, Greece (Poster-abstract).
26. Galanopoulou K, Papanikolaou T, Ziogas T, Zerial M, and Christoforidis S, "Acetoacetyl CoA thiolase is a new Rab5-interacting protein that regulates endosome fusion". 66th HSBMB meeting, Athens, Greece, 11-13 Dec, 2015. (Poster-abstract).
27. Georvasili B, Lianos C, Christoforidis S, Kalyvioti X, Baltogiannis G, Bali C, "Study of the levels of Von Willebrand factor in cancer patients" 30th Panhellenic Congress of Surgery & International Surgery Forum 8-12 Nov, 2016, Thessaloniki (Poster-abstract).
28. Basagiannis D, Zografou S, Murphy C, Fotsis T, Morbidelli L, Ziche M, Bleck C, Mercer J and Christoforidis S, "Endocytic routes in control of VEGFR2 function: Protection of the receptor and regulation of signaling" 67th HSBMB meeting, Ioannina, Greece, 25-27 Nov, 2016 (oral presentation-abstract) (**award for oral presentation**).
29. Galanopoulou K, Ziogas T, Papanikolaou A, Zerial M, and Christoforidis S, "The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2) interacts with the GDP-form of Rab5 and regulates endocytic membrane transport". 67th HSBMB meeting, Ioannina, Greece, 25-27 Nov, 2016 (Poster-abstract).
30. Zografou S, Bagli E, Basagiannis D, Murphy C, Fotsis T, Christoforidis S "Mapping of the endocytic pathways of VEGFR2 in human stem cells and in the different developmental stages towards the endothelial lineage", 67th HSBMB meeting, Ioannina, Greece, 25-27 Nov, 2016 (Poster-abstract).
31. Kapella A, Gkeka P, Stellas D, Vidali V, Papafotika A, Cournia Z, Christoforidis S, Efstratiadis A, Couladouros E, "Design and synthesis of H1047R mutated PI3K α targeted inhibitors", Conference of the Hellenic Society for Computational Biology and Bioinformatics HSCBB17, Athens, Greece, 11-13 October 2017 (Poster-abstract).
32. Goula E, Lazani V, Papafotika A, Ioannou M, Aivaliotis M, and Christoforidis S. "Lingering-kiss regulated exocytosis as a possible mechanism that explains the

- presence of Galectin-1 in Weibel Palade Bodies", 68th HSBMB meeting, Athens, Greece, 13-14 Oct, 2017 (Poster-abstract).
33. Gkeka D, Zografou S, and Christoforidis S, "Spatiotemporal organization of RabGTPases in stimulated exocytosis in endothelial cells", 68th HSBMB meeting, Athens, Greece, 13-14 Oct, 2017 (Poster-abstract).
 34. Kapella A, Gkeka P, Stellas D, Vidali V, Papafotika A, Cournia Z, Christoforidis S, Efstratiadis A, Couladouros E, "Design and synthesis of H1047R mutated PI3K α targeted inhibitors", 18th Conference of Medical Chemistry, Patras 30-31 October 2017 (Poster-abstract).
 35. S. Christoforidis "Oncogenic Mutations of PI-3-Kinase in Breast and Colon Cancers: Development of Targeted Anticancer Drugs" 13th Training Seminar of Molecular Oncology & Targeted Therapy | 29 & 30 March 2018, Ioannina (**invited speaker**)
 36. Despoina Gkeka, Yannis Kalaidzidis, and Savvas Christoforidis, 69th HSBMB meeting, "Timing and dynamics of recruitment of RabGTPases on Weibel Palade Bodies during regulated exocytosis in endothelial cells", 23-25 Nov, 2018, Larisa, Greece (Poster-abstract).
 37. Valia Karamani, Alexandra Papafotika, George Markopoulos, Evaggelos Kolettas, Hari Leontiadou, Zoe Cournia, and Savvas Christoforidis, 69th HSBMB meeting, "Development and validation of specific inhibitors against the PI3K α E545K oncogenic mutant", 23-25 Nov, 2018, Larisa, Greece (Poster-abstract).
 38. Evangelia Goula, Vasiliki Lazani, Michalis Aivaliotis, and Savvas Christoforidis, 69th HSBMB meeting, "Unconventional secretion in endothelial cells: Cytoplasmic galectin-1 enters Weibel-Palade bodies", 23-25 Nov, 2018, Larisa, Greece, (1st poster award to PhD student E. Goula)
 39. Evangelos Sfikas, Despoina Gkeka, Savvas Christoforidis, Martina Samiotaki, Efstathios Hatziloukas, Theologos Michailidis, Amalia-Sofia Afendra, «Therapeutic approach and investigation of α -synuclein protein interactions in a yeast model of Parkinson's Disease» 23-25 Nov, 2018, Larisa, Greece, (Poster-abstract).
 40. Katerina Galanopoulou, Thanasis Ziogas, Dimitris Basagiannis, Sofia Zografou, Agathi Papanikolaou, Michalis Aivaliotis, Marino Zerial and Savvas Christoforidis, 70th HSBMB Annual Conference, "The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2), a novel Rab5 effector, regulates endocytic membrane transport" 29.11-01.12, 2019, Athens (**1st poster award to PhD student K. Galanopoulou**)
 41. Katerina Galanopoulou, Thanasis Ziogas, Agathi Papanikolaou, Michalis Aivaliotis, Marino Zerial and Savvas Christoforidis, "The role of cytoplasmic Acetoacetyl CoA Thiolase (ACAT2), a novel Rab5 effector, in endocytic membrane transport" 12th Scientific FORTH Retreat, FORTH/ICE-HT, Patras, October 14-16 2019 (**Best poster presentation award**)
 42. Despoina Gkeka and Savvas Christoforidis, «Endosomal compartments interact with the exocytic organelles Weibel Palade Bodies in a Rab27-dependent manner», 12th Scientific FORTH Retreat, FORTH/ICE-HT, Patras, October 14-16 2019 (abstract and poster)
 43. Evangelia Goula, Vasiliki Lazani, Alexandra Papafotika, Michalis Aivaliotis and Savvas Christoforidis, «Unconventional secretion hijacks the conventional pathway in endothelial cells», 12th Scientific FORTH Retreat, FORTH/ICE-HT, Patras, October 14-16 2019 (abstract and poster)
 44. Kapella A, Gkeka P, Stellas D, Vidali V, Papafotika A, Christoforidis S, Cournia Z, Couladouros E, "Design and synthesis of Targeted Inhibitors of PI3K α as Candidate

anti-Cancer Drugs", 18th Medicinal Chemistry Conference Drug Discovery and Design, Volume 34, No 2, 2020 (abstract).

12.2. Publications in International meetings (abstract or poster or oral presentations)

1. S. Christoforidis, T. Papamarcaki, D. Galaris, and O. Tsolas. Purification and Properties of ATP diphosphohydrolase from human term placenta. 2nd International Union of Biochemistry and Molecular Biology Conference, "Biochemistry of Cell Membranes", Bari, Italy, 29 September - 3 October, 1993 (abstract, poster).
2. S. Christoforidis, T. Papamarcaki, and O. Tsolas. Purification and Properties of human placental ATP diphosphohydrolase, an anti-clotting agent. 5th Meeting of the Balcan Clinical Laboratory Federation, BCLF, Ioannina, Greece, 9-12 October 1997 (abstract).
3. R. Lippe, H. Horiouchi, H. McBride, S. Christoforidis, A. Simonsen, H. Stenmark, and M. Zerial. Identification and analysis of Rab5 specific factors. Mechanisms of exocytosis, LA LONDE-LES-MAURES, France , April 20-24, 1998, (abstract, poster).
4. S. Christoforidis, V. Rybin, H. McBride, K. Ashman, M. Wilm, and M. Zerial. Novel, affinity purified Rab5 effectors are the only cytosolic requirements for early endosome fusion. Gordon Research Conference "Lysosomes", Proctor Academy, New Hampshire, USA, June 28-July 3, 1998 (abstract, poster).
5. S. Christoforidis, R. Lippe, A. Simonsen, H. McBride, H. Gournier, H. Stenmark, and M. Zerial. Regulation of endocytic membrane traffic by Rab GTPases. 25th Silver Jubilee FEBS Meeting, The Bella center, Copenhagen, Denmark, July 5-10, 1998 (abstract).
6. O. Tsolas, T. Papamarcaki, S. Christoforidis. Blood fluidity and blood coagulation: Newer aspects. 6th Meeting of the Balkan Clinical Laboratory Federation, BCLF, Plovdiv, Bulgaria, 8-11 October, 1998 (abstract).
7. E. Nielsen, F. Severin, S. Christoforidis, J-C. Olivo, and M. Zerial. Rab5 regulates motility of early endosomes on microtubules. 38th American Society for Cell Biology Annual Meeting, San Francisco, CA, December 12-16, 1998 (abstract, poster)
8. S. Christoforidis, H. McBride, R. Lippe, A. Simonsen, H. Stenmark, and M. Zerial. Regulation of endocytic membrane traffic by Rab GTPases. Keystone Symposia, The function of Small GTPases. Santa Fe, New Mexico, 6-11 March, 1999.
9. S. De Renzis, B. Soenichsen, E. Nielsen, S. Christoforidis, and M. Zerial. Sequential Action of Rab GTPases along the endocytic recycling pathway. European Congress of Cell Biology, ECBO, Bologna, Italy, May 8-11, 1999 (abstract, poster).
10. O. Tsolas, T. Papamarcaki, S. Christoforidis, and M. Vlassi. Molecular Effects of ATP Diphosphohydrolase on Blood Fluidity and Blood Clotting. 2nd International Workshop on Ecto-ATPases and Related Ecto-Nucleotidases. Diepenbeek, Belgium, June 14-18, 1999. (abstract)
11. M. Miaczynska, S. Christoforidis, L. Zhao, and M. Zerial. Molecular machinery of endosome fusion: Insights from reconstitution studies. 6th Joint meeting, The American Society for Cell Biology, European Molecular Biology Organization, H. Dudley Wright Foundation, "Membrane Trafficking and the Cytoskeleton: An Integrated View", Santa Maria Imbaro, Italy, June 26-30, 1999 (abstract, poster).
12. O. Tsolas, T. Papamarcaki, and S. Christoforidis. Blood Coagulation, Blood Fluidity, and ATP Diphosphohydrolase. 7th Meeting of the Balkan Clinical Laboratory Federation, Antalya, Turkey, 4-7 November, 1999 (abstract).

13. S. Christoforidis, H. McBride, R. Lippe, A. Simonsen, H. Stenmark, and M. Zerial. Regulation of endocytic membrane traffic by Rab GTPases. 5th International Symposium on Biochemical Roles of Eukaryotic Cell Surface Molecules. Bangalore, India, 4-8 Jan, 1999 (abstract).
14. S. Uttenweiler-Joseph, S. Christoforidis, M. Zerial and M. Wilm. Differential Scanning for De Novo Sequencing: Application for the Identification of a Complex involved in Endocytosis. 48th ASMS Conference on Mass Spectrometry and Allied Topics. Long Beach Convention Center, Long Beach, California, June 11-15, 2000. (abstract, poster)
15. S. Uttenweiler-Joseph, S. Christoforidis, M. Zerial and M. Wilm. Functional proteomics highlights a novel mechanism in membrane trafficking. From Genome to Proteome. Knowledge Acquisition and Representation. Fourth Siena 2D electrophoresis meeting, Siena, Italy, Sept 4-7, 2000. (abstract, poster)
16. S. Christoforidis, C. Schnatwinkel, S. Uttenweiler-Joseph, Mathias Wilm, and Marino Zerial. Identification of new Rab5 effectors which regulate endosome function. European Life Scientist Organization (ELSO) meeting, ELSO 2000, Geneva, Switzerland, Sept 2-6, 2000. (abstract, poster)
17. J. Murray, S. Christoforidis, M. Zerial, and J. Backer. p150, the human ortholog of VPS15, is involved in endosomal targeting of hVPS34 and EEA1. ASCB, Fortieth annual meeting, San Francisco, CA, December 9-13, 2000. (abstract, poster)
18. S. Christoforidis, "The thromboregulatory role of endothelial cells" EMBO Young Investigator meeting, Heidelberg, Germany, 10-12 April 2002. (**invited speaker**)
19. S. Christoforidis, T. Papamarcaki, O. Tsolas, C. Schnatwinkel, and M. Zerial, Molecular mechanisms in the pathway of endocytosis. Implications in the function of ecto-ATPases. ATP 2002, Woods Hole, Massachusetts, USA, September 15-20, 2002. (**invited speaker**)
20. H. Shin, S. Christoforidis, M. Zerial, Rab5-regulated phosphoinositides synthesis and turnover and its cellular function MOL BIOL CELL 13: 2042, Nov. 2002. (abstract, poster)
21. S. Christoforidis, P.T. Doulias, M. Tenopoulou, et al. "Molecular mechanisms of H₂O₂-induced DNA damage: The action of desferrioxamine" FREE RADICAL RES 37: 35-35 Suppl. 1 2003. Free Radicals and Oxidative Stress: Chemistry, Biochemistry and Pathophysiological Implications, Meeting of the Society for Free Radical Research – European Section, Ioannina, Greece, June 26-29, 2003. (**invited speaker**)
22. A. Papanikolaou, A. Papafotika, A. Xilouri, J. Mitsios, A. Tselepis, and S. Christoforidis. Differential regulation of NTPdase1 and NTPdase2 by cholesterol. 8th International Symposium on Adenosine and Adenine Nucleotides, Ferrara, Italy. 24-28 May 2006. (abstract, poster).
23. C. Papadopoulos, S. Christoforidis, S. Zografu, A. Niouhaniari, P. Kouklis, V. Tsikaris, Influence of cdc42 derived peptides conjugated to a cell penetrating sequential carrier on rearrangement of actin and weibel-palade bodies secretion, Journal of Peptide Science, 14 (8): 118-118 Suppl. S, Aug. 2008. (abstract, poster).
24. Christoforidis S. "Signalling and trafficking in endothelial cells" EMBO Young Investigator meeting, Istanbul, Turkey, 13-15 May 2009. (**invited speaker**)
25. A. Papanikolaou, K. Korn, C. Moebius, N. Pappas, T. Fotsis, E. Fava, C. Murphy, M. Zerial and S. Christoforidis. "The role of Rab5 effectors in activin A signaling." International conference on the tracks of signaling. Il Ciocco, Tuscany, Italy, 9-11 Nov. 2009. (abstract, poster).

26. Christoforidis S. "The role of transmembrane domains in polarized transport and function using as a model protein the ecto-nucleotidase CD39." EMBO Young Investigator sectorial meeting, Polarity and Neuro, Orsay-Paris, 25-27 May, 2011. (**invited speaker**)
27. Christoforidis S. "Interrelationship between trafficking and signaling of VEGFR2 in endothelial cells" EMBO Young Investigator sectorial meeting, Cancer meeting, London UK, July 11-12, 2011. (**invited speaker**)
28. Dimitris Basagiannis, Sofia Zografou, Chrysanthi Xilouri, Carol Murphy, Theodore Fotsis and Savvas Christoforidis "VEGFR2 internalization is indispensable for VEGF-induced Palade body exocytosis." EMBO Conference on Dynamic Endosomes: Mechanisms Controlling Endocytosis, Chania, Crete, 24-29 Sept, 2011. (Poster-abstract)
29. M. Karagiannopoulos, D. Basagiannis, S. Christoforidis, G. Nakos, M. E. Lekka, "Secretory pathway of sPLA2-IIA from pneumocytes type II after stimulation with LPS" 12th Eurasia Conference on Chemical Sciences, Corfu, Greece, April 16-21, 2012. (Poster-abstract)
30. M. Karagiannopoulos, D. Basagiannis, S. Christoforidis, G. Nakos, M. E. Lekka, "Production and secretion of sPLA2-IIA from pneumocytes type II after stimulation with LPS", 4th European Workshop on Lipid mediators, Pasteur Institute, Paris, September 27-28, 2012. (Poster-abstract).
31. Panagiotis Marakos, Konstantinos Daniilides, Nikolaos Lougiakis, Nicole Pouli, Evanthia Kouvari, Orestis Argyros, Constantin Tamvakopoulos, Alexandra Papafotika, Savvas Christoforidis. The design, synthesis and biological evaluation of some new fused pyridines which mimic the purine scaffold, The 6th Anglo-Swedish Medical Chemistry Symposium, June 16-19, 2013, Stockholm, Sweden. (Poster-abstract).
32. Nicole Pouli, Vasiliki Giannouli, Ioannis K. Kostakis, Panagiotis Marakos, Evanthia Kouvari, Orestis Argyros, Constantin Tamvakopoulos, Alexandra Papafotika, Savvas Christoforidis. Synthesis and cytotoxic activity evaluation of new substituted pyrazolopyridines. The 6th Anglo-Swedish Medical Chemistry Symposium, June 16-19, 2013, Stockholm, Sweden. (Poster-abstract).
33. Dimitris Basagiannis, Sofia Zografou, Carol Murphy, Theodore Fotsis, Chrysanthi Xilouri, Lucia Morbidelli, Marina Ziche, and Savvas Christoforidis. "Distinct endocytic routes play discrete roles in VEGFR2 signaling." EMBO Conference on Systems dynamics in endocytosis. "Systems dynamics in endocytosis", 29 Sept-4 Oct, 2013, Villars, Switzerland (Poster-abstract).
34. Christoforidis S. "Endocytosis and Exocytosis in Vascular Biology and de novo Differentiation of the Endothelial Lineage" MOBI4Health Meeting and Conference Bioinnovation & ScanBalt Forum 2013 Gdańsk, 16-18 October 2013. (**invited speaker**)
35. Christoforidis S. "The endothelial ecto-NTPdase1/CD39 exerts potent anti-platelet activity by hydrolyzing extracellular ADP" Advanced Learning on Platelets & Thrombosis International Course, ALPIC 2014, Metsovo, Greece, 7-9 March, 2014 (**invited speaker**)
36. Kapella A, Gkeka P, Papafotika A, Christoforidis S, Cournia Z, Couladouros E, "Synthesis and evaluation of the allosteric effect of PIK-108, a PI3K α inhibitor", First International Congress: From Drug Discovery to Drug Delivery, Athens, Greece, 13-15 November, 2014. (Poster-abstract).
37. Gkeka P, Papafotika A, Christoforidis S, Cournia Z, "Investigating the Structure and Dynamics of the PIK3CA Wild-Type and H1047R Oncogenic Mutant for Potential

- Allosteric Modulation". 249th ACS National Meeting & Exposition - American Chemical Society, March 22-26, 2015, Denver, Colorado, USA (Poster-abstract).
38. Basagiannis D, Zografou S, Murphy C, Fotsis T, Morbidelli L, Ziche M, Bleck C, Mercer J and Christoforidis S, "Comprehensive analysis of the endocytic routes of VEGFR2 and the role they play in endothelial signaling." EMBO Conference on Systems dynamics in endocytosis. "The multidisciplinary era of endocytic mechanics and functions", 27 Sept – 2 Oct 2015, Mandelieu-la-Napoule, France (Poster-abstract).
 39. Christoforidis S. "Role of vesicular transport in blood vessel formation" EMBO Young Investigator sectorial meeting in tissue morphogenesis, Dresden, Germany, 7-9 Feb, 2016. (**invited speaker**)
 40. Christoforidis S. "Role of vesicular transport in blood vessel physiology", European Network on Microvesicles and Exosomes in Health and Disease, Training course on "Extracellular Vesicles & Exosomes: Analysis and Properties", Ioannina, March 1-3, 2016 (**invited speaker**)
 41. Zografou S, Bagli E, Basagiannis D, Murphy C, Fotsis T and Christoforidis S, "Differentiation of human embryonic stem cells into endothelial cells and putative applications", MOB14Health Conference, 12-15 April 2016, Gdansk, Poland (Poster-abstract).
 42. Zoe Cournia, Paraskevi Gkeka, H Leontiadou, I Galdadas, C Athanasiou, Vasiliki Lazani, Maria Pavlaki, Bogos Agianian, Savvas Christoforidis, Argiris Efstratiadis, «Novel small molecule modulators of the hotspot PIK3CA mutants identified by computational and experimental approaches», American Association for Cancer Research (AACR), Annual Meeting 2019, March 29 - Apr 3, 2019, Atlanta, Georgia, USA
 43. Paraskevi Gkeka, Vasiliki Lazani, Maria Pavlaki, Bogos Agianian, Savvas Christoforidis, Zoe Cournia «Investigating the structure and dynamics of oncogene proteins», CECAM Meeting: Learning the Collective Variables of Biomolecular Processes, July 10-12, 2019, FR-MOSER, Inria Paris, France
 44. Vasiliki Lazani, Evangelia Goula, Despoina Gkeka, Alexandra Papafotika, and Savvas Christoforidis, EMBO Conference, The physics and chemistry of endocytosis at multiple scales, "Differentiation of hESCs towards endothelial cells alters the itinerary of VEGFR2 internalization", 1 – 6 September 2019, Ischia, Italy

13. Patents

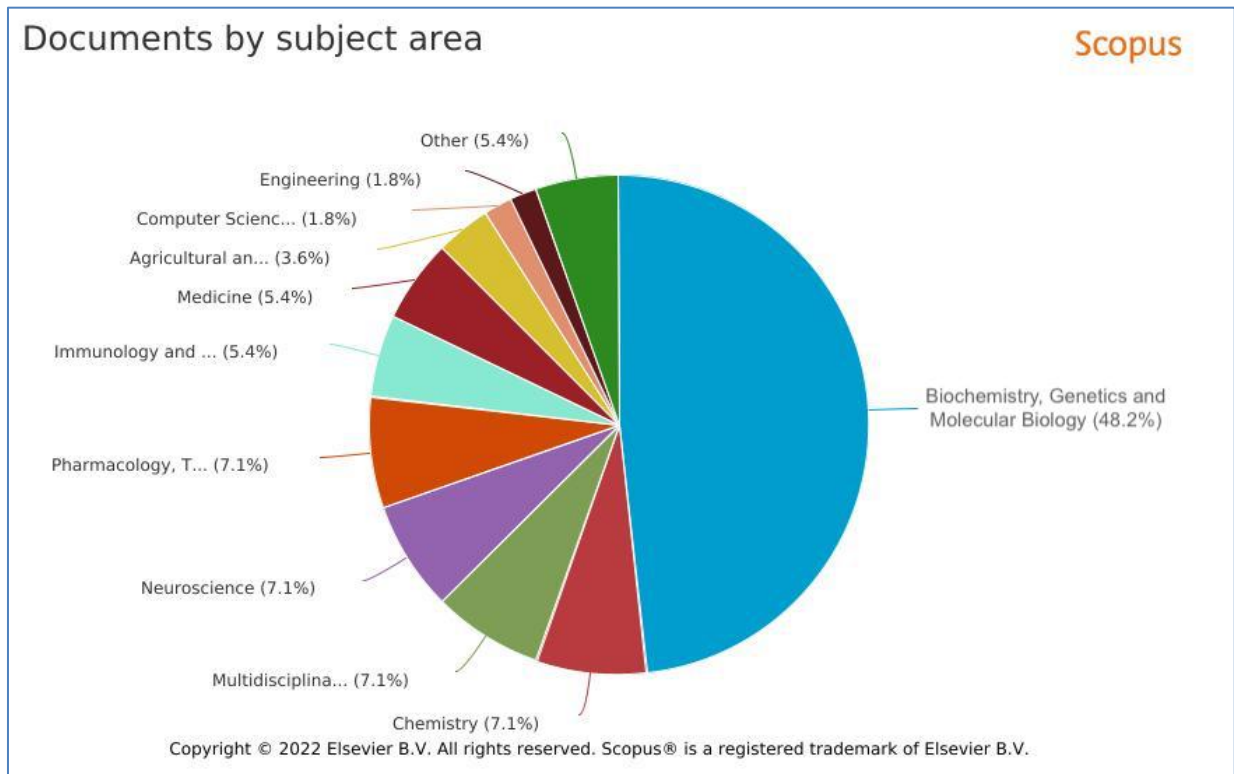
1. Title: "A new assay to detect substances useful for the therapy of cancer and infectious diseases." 16.09.99, European Patent Office - 99118385.6-2204. Inventors: Nielsen Erik, **Christoforidis Savvas**, Murphy Carol, Zerial Marino.
2. Title: "Assay to detect substances useful for therapy". United States Letters Patent, Serial Number 10/088,549, and Canadian Intellectual Property Office, CA 2384306, C12Q 1/44 (2006.01), 22/03/2001, Inventors: Nielsen Erik, **Christoforidis Savvas**, Murphy Carol, Zerial Marino, De Renzis Stefano.
3. Title: "Method of preparation and use of phosphoinositide 3-kinase inhibitors for cancerous diseases" 23.08.2019, PCT/EP2019/072648, European Patent Office, Inventors: Zoe Cournia, Argiris Efstratiadis, Anna Kapella, **Savvas Christoforidis**, Elias Couladouros.

14. Peer-reviewed publications (total number of citations: 6,502 in Google Scholar, 4,404 in Scopus, total impact factor: 310.043)

1. Schuhmacher J, Dieck S, **Christoforidis S**, Landerer C, Hersemann L, Seifert S, Giner A, Toth-Petroczy A, Kalaidzidis Y, Schuman E, Zerial M. (2021) The novel Rab5 effector FERRY links early endosomes with the translation machinery. **bioRxiv** 2021.06.20.449167; doi: <https://doi.org/10.1101/2021.06.20.449167> (preprint in bioRxiv, submitted to "Cell")
2. Basagiannis D, Zografou S, Goula E, Gkeka D, Kolettas E, **Christoforidis S**. (2021) Chemical Inhibitors of Dynamin Exert Differential Effects in VEGF Signaling. **Cells**. Apr 23;10(5):997. doi: 10.3390/cells10050997. PMID: 33922806.
3. Papadopoulos C, Fotou E, Moussis V, Ntoyhaniari A, Zografou S, Maltabe V, Kouklis P, **Christoforidis S**, Tsikaris V. (2021) Intracellular targets: A multiple cargo transporting molecule. **J Pept Sci**. 2021 Nov;27(11):e3359. doi: 10.1002/psc.3359.
4. Basagiannis D, Zografou S, Galanopoulou K, **Christoforidis S**. (2017) Dynasore impairs VEGFR2 signalling in an endocytosis-independent manner. **Sci Rep**. 2017 Mar 22;7:45035. doi: 10.1038/srep45035.
5. Martzoukou O, Amillis S, Zervakou A, **Christoforidis S**, Diallinas G. (2017) The AP-2 complex has a specialized clathrin-independent role in apical endocytosis and polar growth in fungi. **Elife**. Feb 21;6. pii: e20083. doi: 10.7554/eLife.20083.
6. Argyros O, Lougiakis N, Kouvari E, Papafotika A, Raptopoulou CP, Psycharis V, **Christoforidis S**, Pouli N, Marakos P, Tamvakopoulos C. (2017) Design and synthesis of novel 7-aminosubstituted pyrido[2,3-b]pyrazines exhibiting anti-breast cancer activity. **Eur J Med Chem**. Jan 27;126:954-968.
7. Daniilides K, Lougiakis N, Evangelidis T, Kostakis IK, Pouli N, Marakos P, Mikros E, Skaltsounis AL, Bach S, Baratte B, Ruchaud S, Karamani V, Papafotika A, **Christoforidis S**, Argyros O, Kouvari E, Tamvakopoulos C. (2017) Discovery of new aminosubstituted pyrrolopyrimidines with antiproliferative activity against breast cancer cells and investigation of their effect towards the PI3K α enzyme. **Anticancer Agents Med Chem**. 2017;17(7):990-1002.
8. Basagiannis D, Zografou S, Murphy C, Fotsis T, Morbidelli L, Ziche M, Bleck C, Mercer J, **Christoforidis S**. (2016) VEGF induces signalling and angiogenesis by directing VEGFR2 internalisation via macropinocytosis. **J Cell Sci**, 129(21):4091-4104
9. Basagiannis D, **Christoforidis S**. (2016) Constitutive Endocytosis of VEGFR2 Protects the Receptor against Shedding. **J Biol Chem**. 291, 16892-903
10. Tsolis KC, Bagli E, Kanaki K, Zografou S, Carpentier S, Bei ES, **Christoforidis S**, Zervakis M, Murphy C, Fotsis T, Economou A. (2016) Proteome Changes during Transition from Human Embryonic to Vascular Progenitor Cells. **J Proteome Res**. 2016 Jun 3;15(6):1995-2007. doi: 10.1021/acs.jproteome.6b00180.
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Manuscripts in preparation:

- The pathways of endocytosis and signalling of VEGFR2 evolve during differentiation of hESCs towards the endothelial lineage. Zografou S et al and Christoforidis S (manuscript in preparation)
- ACAT2 is a new Rab5-GDP binding protein that regulates Rab5 activity in homotypic endosome fusion. Galanopoulou K et al and Christoforidis S. (manuscript in preparation)
- In endothelial cells, Galectin-1 is secreted unconventionally via Weibel Palade bodies. Goula E et al and Christoforidis S. (manuscript in preparation)
- Timing and dynamics of recruitment of RabGTPases on Weibel Palade Bodies during regulated exocytosis in endothelial cells. Gkeka D et al and Christoforidis S. (manuscript in preparation)
- Over-activation of the oncogenic mutant H1047R of Phosphatidylinositol 3-kinase α depends on membrane association. Papafotika A et al and Christoforidis S. (manuscript in preparation)

15. Summary of research activity

Total number of peer reviewed publications	34
Number of citations	<ul style="list-style-type: none"> • google scholar: 6,502 • Scopus: 4,404 (4,339 excluding self-citations, Scopus)
Mean number of citations (per paper)	<ul style="list-style-type: none"> • google scholar: 191 • Scopus: 129 (127 excluding self-citations, Scopus)
Total impact factor (Thomson Reuters)	310.043
Mean impact factor (per publication)	9.119
h-index	<ul style="list-style-type: none"> • google scholar: 24 • Scopus: 22
Number of grants	<p>Total: 28</p> <p>Participant in: 17</p> <p>Coordinator in: 11</p>
Total funding for the group (Euro)	1,508,814.00 Euro