

Curriculum Vitae

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EDUCATION:

University School of Pharmacy, University of Patras, Patras, Greece; 1985-1989. Degree: B. Pharm
Graduate: Department of Pharmacology and Toxicology, Medical College of Georgia, USA; 1990-1994; Degree: Ph.D. in Pharmacology
Postdoctoral: Vascular Biology Center, Medical College of Georgia, USA; 1994-1995
Boyer Center for Molecular Medicine & Department of Pharmacology, Yale University School of Medicine; 1995-1998

ACADEMIC APPOINTMENTS:

1999-2003: Assistant Professor of Pharmacology, School of Nursing, National and Kapodistrian University of Athens, Greece
2003-2009 Associate Professor of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece
2009-2013 Professor of Pharmacology, Department of Pharmacy, University of Patras, Greece
2013-present Professor of Pharmacology, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece

SECONDARY AND ADJUNCT APPOINTMENTS:

2000-2008: Group Leader, "G. P. Livanos" Laboratory, Dept of Critical Care and Pulmonary Services, National and Kapodistrian University of Athens School of Medicine, Greece
2003-2022: Adjunct faculty, Hellenic Open University, Greece
2008-2017: Adjunct Professor, Department of Medicine, McGill University, Canada
2011-2013: Honorary Professor, Department of Pharmacology, University of Maastricht, The Netherlands
2011-2023 Adjunct Professor, Department of Anesthesiology/Surgery University of Texas Medical Branch, Galveston, USA
2012-present: Affiliated Investigator, Biomedical Research Foundation of the Academy of Athens, Greece

2014-present Professor, Faculty of Medicine, 1st Department of Critical Care and Pulmonary Services, Evangelismos Hospital, National and Kapodistrian University of Athens, Greece

VISITING PROFESSORSHIPS:

1999-2001: Department of Pharmacology, Yale University School of Medicine, USA
2007: Department of Surgery, University of Dentistry and Medicine New Jersey, USA (July-August)
2011: Biomedical Research Foundation of the Academy of Athens, Greece (February-June)
2014-2016 Department of Pharmacy, University of Patras, Greece
2017 Cardiovascular Center of Excellence, Louisiana State University Health Sciences Center, New Orleans, USA (July-December)

SCIENTIFIC ADVISORY BOARDS

Academia-non profit

2020-present Bioactive Natural Products Steering Center of Excellence, National and Kapodistrian University of Athens, Greece, Member of the Steering Committee
2020-present Scientific Board, Biomedical Research Foundation of the Academy of Athens, Member
2021-present Research Unit, Onassis Cardiac Surgery Center, Scientific Committee, Member

Industry-Biotech

2013-2018 CBS Therapeutics Inc, Scientific Advisory Board member
2020-present Sulfagenix, Inc, Scientific Advisory Board member
2023-present Phrarma Therapeutics Inc, Co-Founder and Senior Scientific Advisor
2024-present GalleonBio LLC, Chief Scientific Officer

LICENSURES/ Board Certified in Pharmacy, Athens, Greece, 1990
CERTIFICATIONS: Open and Distance Learning, Hellenic Open University, 2018
European Certified Pharmacologist (EuCP), 2023

PROFESSIONAL ACTIVITIES

Institutional Committees:

2005-2016 Curriculum Committee, Hellenic Open University
2010-2013 Internal Accreditation and Evaluation Committee, Department of Pharmacy, University of Patras
2009-2011 Member (substitute) of the University of Patras Research Committee Governing Body
2014-2018 Curriculum Committee, Faculty of Pharmacy, National and Kapodistrian University of Athens
2015-2018 Internal Accreditation and Evaluation Committee, Faculty of Pharmacy, National and Kapodistrian University of Athens
2020-2024 Head of the Curriculum Committee, Faculty of Pharmacy, National and Kapodistrian University of Athens

Administrative appointments and other activities:

Intramural

2006-2013 Director, Lab for Molecular Pharmacology, University of Patras
2005-2009 and

2011-2013	Vice Chairman (elected), Department of Pharmacy, University of Patras
2010-2013	Graduate Program Director, Department of Pharmacy, University of Patras
2016-present	Director, Lab of Pharmacology, National and Kapodistrian University of Athens
2020-2024	Vice Chairman (elected), Department of Pharmacy, National and Kapodistrian University of Athens
2020-2024	Director of Postgraduate Studies, Department of Pharmacy, National and Kapodistrian University of Athens
2023-2027	Director of MPharm program for foreign students in English
2024-2028	Head of the Department of Pharmacy

National

2003-2007	Elected Member of the Board, Hellenic Society of Basic and Clinical Pharmacology
2009-2013	Pharmacopoeia Committee, National Organization for Medicines
2013-2017	Greek Society for Basic and Clinical Pharmacology, President
2015-2023	National Pharmacy Board Examination Committee, Examiner
2023-2025	Hellenic Society of Basic and Clinical Pharmacology, Vice-President

International

2007	National Delegate, European Medicines Agency, Pediatric Committee
2007-present	European Medicines Agency expert
2011-present	European Network on Gasotransmitters, Chair
2014-2015	International Union of Pharmacology (IUPHAR) General Assembly member (National Delegate)
2014-2016	European Federation of Pharmacological Societies General Assembly member (National Delegate)
2014-present	NC-IUPHAR Co-chair for gasotransmitters
2016-2022	Secretary General, EPHAR (European Federation of Pharmacological Societies)
2022-2024	President, EPHAR

International jury and board positions

2015	LifePharm Award Committee, Italian Society of Pharmacology
2016-2020	Expert Advisory Board, Innovative Training Network Horizon2020, “European Vascular Interventions and Therapeutic Innovation Network”
2018-present	Prix Galien (Greece), Member of the Awards Committee, member
2018-present	American Society for Pharmacology and Experimental Therapeutics Cardiovascular Pharmacology Awards Committee, Chairman (2022-present)

Editorial board member:

Editorial board member

1998-2010	Vascular Pharmacology
2009-2018	British Journal of Pharmacology
2019-2022	British Journal of Pharmacology, Reviews Editorial Board
2010-2023	Arteriosclerosis, Thrombosis and Vascular Biology
2012-2022	Journal of Pharmacology & Experimental Therapeutics
2015-present	Nitric Oxide Biology and Chemistry
2020-present	Antioxidants
2021-present	Frigid Zone Medicine
2021-present	Pharmacology
2022-present	Frontiers in Pharmacology, Reviews Editor

Associate/Senior Editor

2023-present British Journal of Pharmacology, Senior Editor
 2022-present Pharmacological Research, Associate editor
 2025-present European Reviews for Medical and Pharmacological Sciences, Associate Editor

Guest Editor

2015 Themed Issue on “Gasotransmitters” *Br. J. Pharmacol.* (Papapetropoulos, Ferdinandy, Foresti)
 2016 Special Issue on “Drugs and druggable targets in angiogenesis” *Pharmacol Res.* (Papapetropoulos, Morbidelli)
 2018 Themed Issue on “Drug Repurposing” *Br. J. Pharmacol.* (Papapetropoulos, Szabo)
 2020 Themed Issue on “Hydrogen Sulfide in Biology & Medicine” *Br. J. Pharmacol.* (Papapetropoulos, Wallace, Wang)
 2021 Research Topic Issue on "Interplays and Functions of Gaseous Mediators: From Underlying Mechanisms to Therapeutic Approaches in Cardiovascular Diseases, *Front Pharmacol.* (Brancaleone, Papapetropoulos, Mitidieri)
 2021 Special Issue on “e-Cigarettes and Health” *Toxics* (Topouzis, Papapetropoulos)

MEMBERSHIP IN SOCIETIES (year joined):

American Association for the Advancement of Science (1999)
 American Heart Association (2007)
 American Society for Biochemistry and Molecular Biology (2004)
 American Society for Pharmacology and Experimental Therapeutics (1993)
 American Physiological Society (2010)
 British Society for Pharmacology (2003)
 European Society for Cardiology, Heart Failure Association (2014)
 European Vascular Biology Organization (2011)
 North American Vascular Biology Organization (1996)
 Nitric Oxide Society (2014)
 Southeastern Pharmacology Society (1991)
 Swiss Society for Experimental Pharmacology (2023)
 Hellenic Society of Basic and Clinical Pharmacological (1998)
 Greek Union of Pharmacists (1998)

REVIEWER in peer reviewed journals:

Acta Pharmacologica Sinica	Cancer Letters
American Journal of Pathology	Cardiovascular Drugs and Therapy
American Journal of Physiology	Cardiovascular Research
American Journal of Respiratory and Critical Care Medicine	Cell and Tissue Research
American Journal of Respiratory Cell and Molecular Biology	Cell Metabolism
Antioxidants and Redox Signaling	Cellular Biochemistry and Biophysics
Arteriosclerosis, Thrombosis, Vascular Biology	Circulation
Biochemical Biophysical Acta	Circulation Research
Biochemical Pharmacology	Chemistry and Medicinal Chemistry
Biochemistry and Cell Biology	Communications Chemistry
BMC Cell Biology	Current Medicinal Chemistry
British Journal of Anesthesia	Current Pharmaceutical Design
British Journal of Pharmacology	Cytokine
	EMBO Molecular Medicine
	European Respiratory Journal
	European Journal of Pharmacology

Experimental Physiology	Mitochondrion
Expert Opinion on Investigational Drugs	Molecular Medicine
Expert Opinion on Drug Discovery	Molecular Neurobiology
FASEB Journal	Molecular Pharmacology
FEBS Letters	Nature
Free Radicals Biology & Medicine	Nature Chemical Biology
Frontiers in Oncology	Nature Reviews Drug Discovery
General Pharmacology	Nature Reviews Cardiology
Hepatology	Nitric Oxide
International Journal of Cardiology	Oncogene
International Journal of Biochemistry and Cell Biology	Oxidative Medicine and Cellular Longevity
Journal of Applied Physiology	Pediatric Allergy and Immunology
Journal of Biological Chemistry	Pharmacological Research
Journal of Cellular and Molecular Medicine	Pharmacology
Journal of Clinical Investigation	Phytotherapy Research
Journal of Medicinal Chemistry	PLOSone
Journal of Molecular Endocrinology	Proceedings of the Society for Experimental Biology and Medicine
Journal of Molecular Medicine	Proteins
Journal of Pharmacology and Experimental Therapeutics	Redox Biology
Journal of Pharmacy and Pharmacology	Respiratory Research
Journal of Thrombosis and Hemostasis	Scientific Reports
Journal of Vascular Research	Science Advances
Life Sciences	Singal Transduction and Targeted Therapy
Medicinal Chemistry Communications	Trends in Immunology

REVIEWER (granting agencies)

General Secretariat of Research and Technology (Greece), 2003, 2010, 2017, 2020
 Associazione Italiana per la Ricerca sul Cancro (Italy), 2004
 National Medical Research Council (Singapore), 2005-2007, 2009
 Health Research Board (Ireland), 2005
 State Scholarship Foundation IKY (Greece), 2006
 Medical Research Council (UK), 2006
 University of Gent (Belgium), 2009
 French National Research Agency 2011-2012
 Romanian National Council for Scientific Research, 2012
 Czech Science Foundation, 2012
 Research Foundation-Flanders (Belgium), 2013
 National Centre for Research and Development (Poland), 2014
 Biotechnology and Biological Sciences Research Council (UK), 2014
 Diabetes UK, 2015
 Northcott Devon Medical Foundation (UK), 2015
 European Union, Cooperation in Science and Technology, 2015
 Slovak Academy of Sciences (VEGA)/Ministry of Education, Science, Research and Sport, Slovak Republic, 2016
 Hellenic Ministry of Education, 2017
 Onassis Foundation (Greece), 2017-present
 United States Army Research Office, 2017
 Chilean National Science and Technology Commission, 2017
 National Science Center (Poland), 2018, 2020

Medical Research Council (UK), 2018
Israel Science Foundation, 2019
Patras Science Park (Greece), 2019
University of Timisoara (Romania), 2019
Medical Research Council (UK), 2019
St Barts Hospital Trust funded clinical PhD studentships (UK), 2020
British Heart Foundation (UK), 2021
State Scholarship Foundation IKY (Greece) 2022-24
Swiss National Science Foundation, 2017, 2022
“La Caixa” Foundation, 2023, 2025
Duchenne Parent Project, Italy, 2024
Fondation Jérôme Lejeune, France 2024, 2025

CONFERENCE CHAIR AND MEMBER OF SCIENTIFIC OR LOCAL COMMITTEE (international meetings)

1. 1st European Conference on hydrogen sulfide, Smolenice, Slovakia 2012, **International Advisory Board**
2. 5th BBBB International Conference, From Drug Discovery and Formulation Strategies to Pharmacokinetic-Pharmacodynamics, Athens Greece 2013, **Local Organizing Committee**
3. 2nd European Conference on the biology of hydrogen sulphide, Exeter, UK 2013, **International Advisory Board**
4. 3rd Science On Conference on Drug Discovery and Development, Dubai 2014 **Program Technical Committee**
5. 8th Biannual Hellenic Society of Basic and Clinical Pharmacology, Athens, Greece, 2014, **Conference Chair**
6. 3rd European Conference on the Biology of H₂S, Athens, Greece, 2015, **Conference Chair**
7. 7th European congress of Pharmacology, EPHAR2016, Istanbul, Turkey, **International Scientific Advisory Board**, 2016
8. 4th International Conference on the biology of hydrogen sulfide, Naples, Italy 2016, **International Advisory Board**
9. 1st International Summit on Tobacco Harm Reduction: Novel products, research and policy, Athens 2018, **Scientific Organizing Committee**
10. 5th International Conference on the biology of hydrogen sulfide, Toronto, Canada 2018, **International Advisory Board**
11. 15th Congress of the European Association for Clinical Pharmacology and Therapeutics, Athens, Greece, 2022, **Local Organizing Committee**
12. 6th International Conference on the Biology of hydrogen sulphide, Budapest, Hungary, 2022, **International Advisory Board**
13. 8th European Congress of Pharmacology, EPHAR2020, Prague, Czech Republic, **Organizing Committee**, 2022
14. 9th European Congress of Pharmacology, EPHAR2024, Athens, Greece, **Chairman**
15. 7th World Congress on Hydrogen Sulfide in Biology and Medicine Conference on the Biology of hydrogen sulphide, Bethesda, 2024, **Organizing Committee**

SYMPOSIUM ORGANIZER AND SESSION CHAIR (international meetings)

1. 3rd International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Dresden, 2007, **Session Chair**

2. 4th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Regensburg, 2009, **Poster Session Moderator**
3. 5th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Halle, 2011, **Session Chair**
4. British Pharmacological Society, 2011 Winter Meeting, London, **Symposium Co-organizer**, “Gasotransmitters as physiological mediators and therapeutic agents: the challenges ahead”
5. 6th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Erfurt, 2013, **Session Chair**
6. Heart Failure 2014, European Society for Cardiology, Athens, Basic Science 1 **Session Chair** and Young Investigators Award **Judge**
7. British Pharmacological Society, Pharmacology 2014, London, **Symposium Co-organizer** “Advances and challenges for cardioprotection: getting to the heart of the matter”
8. European Council for Cardiovascular Research, Lake Garda, 2014, **Session Chair** and poster **Judge**
9. 7th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Trier, 2015, **Session Chair**
10. American Society for Experimental Biology and Medicine, EB16, “The Biology and Translational Potential of Hydrogen Sulfide: One Person's Trash is Another Person's Treasure” **Symposium co-organizer**, April 2016
11. American Heart Association Sessions 2017, Anaheim, California, **Session moderator**
12. 7th European congress of Pharmacology, EPHAR2016, Istanbul, Turkey, **Session co-organizer**, June 2016
13. American Society for Experimental Biology and Medicine, EB18, “Update on the Gaseous Signaling Molecules NO, H₂S, and CO” **Symposium co-organizer**, April 2018

REVIEWER (book publishers)

Springer Science and Business Media
Royal Society of Chemistry Books

AWARDS & HONORS

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| 1988 | Award from the Greek National Scholarship Foundation |
| 1992-94 | Scholarships from the American Hellenic Education Progressive Association |
| 1994 | PhD in Pharmacology with Distinction, Medical College of Georgia |
| 1996-98 | Fellow of the Patrick and Catherine Weldon Donaghue Medical Foundation |
| 2011 | Fellow of the American Heart Association |
| 2012 | Fellow of the British Pharmacological Society |
| 2014 | Most influential Greek Scientist list
(published by Prof. Ioannidis, ISBN 978-960-04-4489-6) |
| 2023 | Honorary member of the Hungarian Pharmacological Society |

Teaching activities

1. 2013-present: Course Director for the courses “Pharmacology I” and “Pharmacology II” for pharmacy students, Faculty of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens (fifth and sixth semesters)
2. 2003-2013: Course co-director for “Molecular Pharmacology I” and “Molecular Pharmacology II” for Pharmacy students (ninth and tenth semesters), at the University of Patras. In 2008, the two courses were merged and taught as one (Molecular Pharmacology)
3. 2015-present: Molecular Pharmacology, Elective course for third year Pharmacy students, at the National and Kapodistrian University of Athens

4. 2004-2013: Course Director, “Pharmacology I” and “Pharmacology II” for pharmacy students, Department of Pharmacy, University of Patras (fifth and sixth semesters)
5. 1998-2003: Course Director for the courses “Pharmacology I” and “Pharmacology II” for students of the School of Nursing (second and third semesters), at the National and Kapodistrian University of Athens (1998-2003)
6. Lectures on anti-coagulant drugs to third year students in the School of Nursing at the Medical College of Georgia (1994-1995)

Graduate

1. 2003-2013: Department of Pharmacy, University of Patras, Graduate Studies Program; Lectures for the following courses (total 50 hours annually): “Biochemical basis of drug action”, “Advanced molecular pharmacology”, “Advanced Pharmacology”, “Pathophysiology and pharmacology of angiogenesis”, “In vitro and In vivo systems used to study the mechanisms of drug actions”.
2. 2007-2010: Course Director, “Pharmacology for Nursing graduates”, National and Kapodistrian University of Athens and Athens Technological Institute
3. 2011-2013: Introduction to cellular signaling (4hr) MSc in Bioinformatics, National and Kapodistrian University of Athens
4. 2013-2015: Molecular Medicine, Medical School National and Kapodistrian University of Athens, Experimental Thesis supervision
5. 2015-present, MSc in “Design and Synthesis of New Pharmaceutical Compounds”, Faculty of Pharmacy, National and Kapodistrian University of Athens, Course Director “Advanced Pharmacology”, “Biochemical and Molecular Pharmacology”

Graduate students and postdoctoral fellows trained:

Postdoctoral Fellows

Xagorari Aggeliki, Ph.D. 1999-2001 (current position: Biologist, Dept of Hematology, Papanikolaou Hospital, Thessaloniki, Greece)

Roula Andreopoulos, Ph.D. 1999-2000 (current position: Associate Professor, University of Toronto, Canada)

Zongmin Zhou, Ph.D. 2001-2015 (current position: Senior Scientist, Spirou House of Agriculture, Athens, Greece)

Davina Simoes, Ph.D. 2003-2010 (current position: Senior Lecturer, Northumbria University, UK)

Panagiota Stamatiou, Ph.D., 2006-2007 (current position: Scientific Advisor, inVentiv Health Clinical, Canada)

Tania Pyriochou, Ph.D. 2003-2010 (current position: Staff Scientist, University of Patras, Greece)

Antonia Marazioti, Ph.D. 2007-2011 (current position: Assistant Professor, University of Peloponnese, Greece)

Panagiotis Panopoulos, Ph.D., 2011-2014 (current position: Senior Postdoc, University of Patras, Greece)

Chrisitna Malavaki, PhD, 2012-2013 (current position: Senior Postdoc, University of Patras, Greece)

Kostantinos Glynos MD, PhD, 2012-2015 (current position: Lead Medical Advisor, GSK Hellas, Athens, Greece)

Maria Peleli, PhD, 2018-2022 (current position: Assisant Professor, Uiversity of Southern Denmark)

Ivi Antoniadou, PhD, 2020-present (current position: Medical Writer, Excelya Hellas SA, Athens, Greece)

Eleni Vasilaki, PhD 2020-2021 (current position: High School Biology Teacher, Public School System, Athens, Greece)

Antonia Katsouda, 2021-2023 (current position: postdoc University of Oxford, UK)

Graduate Students

Ioanna Kosmidou, MD, 1998-2002 (current position: Associate Professor, Weill Cornell Medicine, NY, USA)
Kostantinos Glynos MD, 2000-2007 (current position: Lead Medical Advisor, GSK Hellas, Athens, Greece)
Christina Gerassimou, M.Sc., 2002-2007 (current position: Quality Assurance Manager, CreativePharmaServices, Athens, Greece)
Stelios Tsigkos, MD, 2001-2007 (current position: Scientific Officer, European Medicines Agency, Amsterdam, Netherlands)
Vicky Koika, MSc., 2004-2010
George Haramis, MD, 2006-2013 (current position: Head of Urology, Mouwasat Hospital Dammam, Saudi Arabia)
Bukar Umaru, MSc, DVM, 2010-2015 (current position: Assistant Professor, University of Maiduguri, Nigeria)
Sofia-Iris Bibli, MSc, 2012-2016 (current position: Professor, Heidelberg University, Germany)
Antonia Asimakopoulou, MSc, 2012-2017
Thani Pavlidou, MSc, 2014-2022 (current position Director, Business Development, Accelsiors CRO)
Antonia Katsouda, MSc 2015-2021 (current position: postdoc University of Oxford, UK)
Paris Zampas, MSc 2018-2025 (current position: postdoc BRFAA, Greece)
Maria Markou, MSc 2020-2025 (current position: postdoc BRFAA, Greece)
Konstantinos Salagiannis, MSc 2022-present
Stella Ravani, MSc 2022-present
Odyseia Savvoulidou, MSc 2023-present (co-supervision; Southern Denmark University)

Thesis Examination and Evaluation Committees (International) (National >30)

Martina Monti (PhD candidate), University of Siena, Italy (2008)
Laurice Fretwell, British Pharmacological Society, Diploma in Advanced Pharmacology (2012)
Eelke Bos (PhD candidate), University of Groningen, The Netherlands (2013)
Pauline M. Snijder (PhD candidate), University of Groningen, The Netherlands (2014)
Hana Černecká, British Pharmacological Society, Diploma in Advanced Pharmacology (2016)
Maria Peleli, (PhD Candidate), Karolinska Institute (2016)
Akansha Tarun (PhD Candidate) University of Oxford (2018)
Patrice Gomes Marques (PhD candidate) University of Valencia (2020)
Eugenia Piragine (PhD Candidate), University of Pisa (2020)
Flavia Giordano (PhD Candidate), University of Naples “Federico II” (2021)
Rosa Sparaco (PhD Candidate), University of Naples “Federico II” (2022)
Salih Kucuk (PhD Candidate), University of Birmingham (2023)
Kelly Ascencao (PhD Candidate), University of Fribourg (2023)

MSc Students

Anastasios Koukaliotis (MSc awarded 2008)
Antonia Asimakopoulou (MSc awarded 2012)
Sofia-Iris Bibli (MSc awarded 2013)
Antonia Katsouda (MSc awarded 2015)
Athanasia Apostolou (MSc awarded 2015)
Georgia Damopoulou (MSc awarded 2017)
Stefania Koutsilieri (MSc awarded 2017)
Paris Zampas (MSc awarded 2018)
Dimokritos Christoforidis (MSc awarded 2021)
Katerina Touloumi (MSc awarded 2021)
Stella Ravani (MSc awarded 2022)
Alexandra Lambrou (MSc awarded 2022)

Georgia Kelaidoni (MPharm awarded 2023)

INVITED SPEAKER (Academic Institutions and Research Centers)

Department of Medicine, Royal Victoria Hospital, McGill University, Canada, 1999
Department of Intensive Care, University of Athens, Greece, 2001
Institute for Biochemistry II, University of Frankfurt, Germany, 2004
Foundation for Biomedical Research of the Academy of Athens, Greece, 2004
Department of Pharmacological Sciences, University of Siena, Italy, 2005
Institute for Biotechnology, Greek Research Foundation, Greece, 2006
4th Department of Internal Medicine, University of Athens, Greece, 2006
Institute for Organic Chemistry, University of Leipzig, Germany, 2007
Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, Portugal, 2008
University of Medicine and Dentistry New Jersey, Dept of Pharmacology & Physiology, USA 2008
Meakins-Christie Laboratories, McGill University, Canada, 2008
Department of Pharmacy, Aristotelian University of Thessaloniki, Greece, 2009
Department of Experimental Pharmacology, School of Pharmacy, University of Naples, Italy, 2009
Department of Medicine, University of Patras, Greece, 2010
Vascular Biology Center, Medical College of Georgia, Georgia, USA, 2010
Faculty of Pharmacy, Ege University, Izmir, Turkey, 2012
Center for Sepsis Control and Care, Universitätsklinikum Jena, Germany, 2013
Institute of Vascular Signalling, Goethe University, Germany, 2013
Jagiellonian Centre for Experimental Therapeutics, Jagiellonian University, Poland, 2014
Department of Pathology and Mucosal Biology, University of Groningen, Netherlands, 2014
Oxford Group of Translational Cardiovascular Research, Oxford University, UK, 2014
Molecular Cardiology, University of Mainz, Germany, 2015
School of Pharmacy, Texas Tech Health Sciences University Center, Amarillo, TX, USA, 2016
Cardiovascular Center of Excellence, LSU Health Science Center, Louisiana, USA, 2016
Department of Biology, Laurentian University, Ontario, Canada, 2016
Department of Physiology and Pharmacology, Karolinska Institutet, Sweden, 2016
Center for Diagnostics and Therapeutics, Georgia State University, Atlanta, GA, 2017
Vascular Biology & Therapeutics, Yale University School of Medicine, New Haven, CT, 2017
cGMP Forum, Novartis Institute for Biomedical Research, Boston, MA, 2018
Department of Pharmacology, University of Fribourg, Switzerland, 2018
Institute of Vascular Signalling, Goethe University, Germany, 2021
Institute of Molecular Medicine, Dept of Cardiovascular and Renal Research, Odense, Denmark, 2021
Institute of Inflammation and Ageing, University of Birmingham, UK, 2023
Clinical Research Center, Lund University, Sweden, 2023

INVITED SPEAKER (International Conferences)

NATO Advanced Study Institute: Vascular endothelium: Mechanisms of cell signalling", Crete, 1998
3rd State of the Art, Interdisciplinary Review Course, Athens, 1999
NATO Advanced Study Institute: "Vascular Endothelium: Source and Target of Inflammatory mediators", Crete, 2000
NATO Advanced Study Institute: "Disease markers in exhaled breath: basic mechanism and clinical applications" Crete 2001
Vascular Endothelium: Translating Discoveries into public health practice, Crete, 2005
8th International conference: Angiogenesis: Basic Sciences and Clinical Applications, Corfu 2006
Nitric oxide and nitrosative stress in the cardiovascular system, Budapest, 2006
3rd International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Dresden, 2007

9th International Angiogenesis Conference: Basic Science and Clinical Applications, Patras, June 22-26, 2008
XXVIII European Section Meeting, International Society for Heart Research, Athens, 2008
7th European Association of Clinical Pharmacology and Therapeutics Summer School, Alexandroupolis, 2009
4th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Regensburg, 2009
3rd Master Class in Oncology Pharmacy, Athens, 2009
International Symposium on Nitric Oxide-Cyclic GMP signal Transduction in Brain, Valencia, 2010
European Society for Cardiology, Heart Failure 2010 Berlin, 2010
5th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Halle, 2011
6th European Vascular Biology Meeting, Krakow, 2011
1st European Conference on the Biology of H₂S, Smolenice, Slovakia, 2012
VIIIth Joint Meeting on Medicinal Chemistry, Lublin, Poland, 2013
6th International Conference on cGMP, cGMP: generators, effectors and therapeutic implications, Erfurt, 2013
2nd European Conference on the Biology of H₂S, Exeter, UK, 2013
3rd International Conference on H₂S Biology and Medicine, Kyoto, Japan, 2014
International Symposium on NO and H₂S in health and disease, Naples, Italy, 2014
3rd Congress of Physiological Sciences of Serbia, Belgrade, 2014
Nitric Oxide – Nitrite/Nitrate Conference, Cleveland, Ohio, USA, 2014
18th European Council on cardiovascular Research, Lake Garda, Italy, 2014
Heart Failure Association Winter Research Meeting, Les Diablerets, Switzerland, 2015
British Physiological Society, Cardiff, 2015
Experimental Biology 16, San Diego, 2016
9th International Conference on Heme Oxygenases Prague, 2016
4th International Conference on the Biology of H₂S, Naples, Italy, 2016
Society for Free Radical Research-Europe 2016, Budapest, Hungary, 2016
43rd FEBS Congress, Prague, 2018
1st Meeting in Translational Pharmacology, Spanish Society of Pharmacology, Spain, 2018
5th International Conference on the biology of hydrogen sulphide, Toronto, Canada, 2018
Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory-related Disorders, Siena, 2018
44th FEBS Congress, Krakow, 2019
14th Serbian Congress of Pharmacology, Novi Sad, Republic of Serbia (Plenary Lecture), 2019
6th International Conference on the Biology of hydrogen sulphide, Budapest, Hungary, 2022
FAME2023, Annual conference of the Hungarian Society of Pharmacology (Plenary Lecture), 2023
7th World Congress on Hydrogen Sulfide in Biology and Medicine Conference on the Biology of hydrogen sulphide, Bethesda, 2024 (Keynote Lecture)
6th International Congress IRPES2024, Innovative Research in Pharmaceutical and Environmental Sciences Focus on Bioactive Substances and Pharmaceutical process optimization, Pisa, 2024 (Keynote Lecture)
FAME2025, Annual conference of the Hungarian Society of Pharmacology (Keynote Lecture), 2025
European Association of Clinical Pharmacology and Therapeutics, EACPT2025, Helsinki, 2025

List of publications

Chapters (Books and meeting proceedings)

1. **A. Papapetropoulos** and J.D. Catravas. Endothelial cell functions. In "8th European Congress of Intensive Care Medicine", Monduzzi Editore S.p.A, Bologna, Italy, pp349-354, 1995.

2. **A. Papapetropoulos** and W.C. Sessa. Regulation of the nitric oxide synthase gene family. In "Biology of Nitric Oxide", Eds S.S. Gross, M.S. Goligorski, Chapman and Hill, New York, pp.66-85, 1997.
3. **A. Papapetropoulos**, V. Zachariou and W.C. Sessa. NO synthase biology: Insights gained from knockout mice. In "The haemodynamic effects of nitric oxide". Eds. R.T. Mathie and T.M. Griffith. Imperial College Press, London UK pp 96-110, 1999.
4. A. Xagorari, A. Kotanidou, Ch. Roussos and **A. Papapetropoulos**. Luteolin reduces LPS-induced TNF- α production and protects mice against LPS toxicity. In "Disease markers in exhaled breath: basic mechanism and clinical applications" Eds N. Marczin and M. Yacoub, IOS Press, Amsterdam, pp 366-368, 2002.
5. S. Tsigkos and **A. Papapetropoulos**. The angiopoietins: linking angiogenesis and inflammation Eds: M.E. Maragoudakis and E. Papadimitriou. In: "Angiogenesis: Basic Science and Clinical Applications", Eds: M. E. Maragoudakis and E. Papadimitriou, Transworld Research Network, Singapore, pp 79-93, 2007.
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Sigala, G Dobрева, I Fleming, S-I Bibli. A novel role for cystathionine γ lyase in the control of p53: impact on endothelial senescence and metabolic reprogramming. *Circ Res.* 133:842-857, 2023.

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171. M Smimmo, V Casale, D D'Andrea, I Bello, N Iaccarino, F Romano, V Brancalone, E Panza, R d'Emmanuele di Villa Bianca, A Katsouda, E Mitidieri, I Antoniadou, **A Papapetropoulos**, F Maione, S Castaldo, M Friuli, A Romano, S Gaetani, R Sorrentino, A Randazzo, G Cirino, M Bucci, M Filipovic, V Vellecco. Defective protein persulfidation is involved in obesity associated skeletal muscle dysfunction: role of SIRT-1. *Redox Biol.* 83:103645, 2025.

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Patent

Pharmaceutical compounds based on the association of a histamine antagonist and a hydrogen sulfide donor for the use in the treatment of pruritus GR1010438 Inventor

Scientometrics

Number of citations 29,700; h-index 77 (Google Scholar)

20,014; h-index 67 (Scopus)
18,871; h-index 65 (Web of Science)

Top 2% of scientists world-wide across all fields based on career-long data (Elsevier Data Repository)
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/5>

Grants awarded

Active

National

“A multi-omics approach to unravel novel hydrogen sulfide-regulated pathways driving white adipose tissue browning (SULFA-WHATB)” Hellenic Foundation of Research and Innovation, 2024-2025, Principal Investigator

“Hydrogen sulfide and adipose tissue inflammation”, Hellenic Foundation of Research and Innovation, 2024-2026, Principal Investigator (doctoral grant, supervisor)

“Innovative Products based on Bioactive Compounds deriving from the Apple Tree (*Malus domestica*) for Enhancing Cardiometabolic Health” Hellenic Ministry of Education, Religious Affairs and Sports, 2025-2026, Principal Investigator

European Union

EU Resolve COST Action (CA24138), 2025-2029, Member of the Management Committee

Completed

Intramural

“The β subunit of soluble guanylyl cyclase as a drug target for the development of vasoactive drugs” University of Athens Intramural Grant 2001-2002. Co- Principal Investigator

“Inhibition of vascular permeability by angiopoietin-1: mechanisms and applications” University of Athens Intramural Grant 2002-2003, Principal Investigator

“The role of Nogo-B in angiogenesis” University of Patras Intramural Grant 2004-2007, Principal Investigator

“Pharmanet: Network for the structural and functional evaluation of molecules of pharmaceutical interest”. University of Patras Intramural Grant 2010-2012, Coordinator

National

“Structural and functional characterization of the soluble guanylyl cyclase dimerization region” Greek Secretariat of Research and Technology 1999-2001, Principal Investigator

“Molecular mechanisms of drug action” Thorax Foundation (Greece), 1999-2008, Principal Investigator

“Development of new soluble guanylyl cyclase inhibitors and therapeutic applications in sepsis” Greek Secretariat of Research and Technology. 2003-2007, Principal Investigator

“Signal transduction and intracellular membrane trafficking in endothelial cells” Greek Secretariat of Research and Technology. 2003-2007, Co-Investigator

“Post-translational regulation of soluble guanylyl cyclase” 2004-2008 Greek Ministry of Education Principal Investigator

“Angiopietin-1 as a cardioprotective factor in congestive heart failure: in vivo and in vitro studies” Greek Society for Cardiology, 2005-2006, Co-Investigator

“New tetraindol derivatives: synthesis, evaluation and structure-activity relationship in the cardiovascular system” 2005-2008 Greek Ministry of Education, Co- Principle Investigator

“Biological activity of mastic oil, its constituents and derivatives in angiogenesis”, Greek Secretariat of Research and Technology. 2005-2008, Co-Investigator

“Design, development and evaluation of novel bio-molecules” Greek Secretariat of Research and Technology, 2006-2008, Co-Investigator

“Synthesis and evaluation of new vasoactive agents in the cardiovascular system” Greek Secretariat of Research and Technology, 2006-2008, Principal Investigator

“Enzymatically-modified phytochemicals with improved anti-angiogenic actions” Greek Secretariat of Research and Technology, 2006-2008, Sub-contractor of Galenica S.A

“Resistive breathing induced-lung injury: the regulatory role of guanylyl cyclase pathway”, Hellenic Thoracic Society, 2012-2013, Principal Investigator

“Non-radioactive nitric oxide synthase activity measurement: Development of a biosensor”. Greece-Turkey joint research and technology programs, Greek Secretariat of Research and Technology, 2010-2012 Principal Investigator

“H₂S: a new endogenous signaling molecule with protective actions in the cardiovascular system”, Greek Society for Cardiology, 2011-12, Principal Investigator

“Development of novel Angiogenesis-Modulating Pharmaceuticals by screening of natural compounds and synthetic analogues” Greek Secretariat of Research and Technology, 2010-2015, (Principle Investigator: Leandros Skaltsounis) Co-Investigator

“Hydrogen sulfide a new endogenous regulator of angiogenesis: signaling, physiology/pathophysiology and development of pharmacological inhibitors”. Greek Ministry of Education “Thalis”, 2012-2015, Principal Investigator

“Cigarette smoking attenuates the cardioprotective effect of the endogenous mechanisms of ischemic conditioning”, Hellenic Thoracic Society, 2014-2015, Principal Investigator

“Identification and evaluation of novel biomarkers for early diagnosis, prognosis, and treatment monitoring of breast and prostate cancers, through the development of hypersensitive molecular methodologies.” Greek Ministry of Education “Thalis”, 2012-2015, Participant (Principal Investigator Andreas Scorilas).

“Interactions of the gasotransmitters hydrogen sulfide (H₂S) and nitric oxide (NO) in the vessel wall: implications for vascular homeostasis”. General Secretariat of Research and Technology, 2012-2015, Excellence Award, Principal Investigator.

“Modern techniques in bioanalysis for health, agriculture, environment and nutrition” Greek Ministry of Education, Life-long learning program, 2014-2015, Co-Investigator (educational grant).

“Exploitation of edible plants rich in phenol and sulphur containing compounds for the development of drugs and food supplements” Greek Ministry of Education, 2014-2015, PABET (Industrial Research Program), Subcontractor of Help Pharmaceuticals

“Role of 3-mercaptopyruvate sulfurtransferase in metabolism and potential applications in the treatment of obesity”, State Scholarship Foundation, IKY-Siemens Excellence award, 2015-2017, Principal Investigator

“The role of 3MST-derived H₂S in angiogenesis”, Bodossaki Foundation, 2017-2018, Principal Investigator

“Metabolic effects of hydrogen sulfide”, Hellenic Foundation of Research and Innovation, 2017-2019, Principal Investigator (doctoral grant, supervisor)

“Pharmacological interventions with cardioprotective potential” Hellenic Institute for the Study of Sepsis, 2017-2019, Principal Investigator

Infrastructures Support Program, Upgrading the plant capital (PlantUP), General Secretariat for Research and Technology, 2018-2021, Participant

“Metabolic syndrome, ischemia/reperfusion injury and hydrogen sulfide: pathophysiological mechanisms and therapeutic applications”, Hellenic Foundation of Research and Innovation, 2019-2022, Principal Investigator (doctoral grant, supervisor)

“H₂S and heart failure” Onassis Foundation, 2020-2022, Principal Investigator

“Utilization of winery byproducts and parts of the grape vine for the development of dietary supplements for venous insufficiency”, General Secretariat of Research and Technology, 2018-2023, Principal Investigator

“Cardioprotection by H₂S: sources, pathways and translational opportunities” Hellenic Foundation of Research and Innovation, 2019-2023, Principal Investigator

“Developing a "smart" beet-and-rocket dietary supplement to improve athletic performance and mitigate the impact of metabolic syndrome” General Secretariat of Research and Technology, 2020-2023, Principal Investigator

“Development of an antithrombotic food supplement from berries” General Secretariat for Research and Innovation, 2021-2023, Subcontractor

European Union

“Gasotransmitters: from basic science to therapeutic applications” EU 7th Framework, COST 2011-2015, Chair

“REGPOT, Establishment of a Centre of Excellence for structure-based drug target characterization: strengthening the research capacity of South-Eastern Europe (SEE-DRUG)” EU, 7th Framework, 2012-15, Work package leader

International

“Design, Synthesis and Biological Evaluation on Cardiovascular System of New Selective Inhibitors of Soluble Guanylyl Cyclase” DESMI 2008, Republic of Cyprus and the European Regional Development Fund, 2008-2010; (Principle Investigator: Panayotis Koutentis) Co-Investigator

“S-nitrosylation of soluble guanylyl cyclase: potential role in nitrate tolerance” National Institutes of Health, 1R21 HL089771 2008-2011, (Principle Investigator: Annie Beuve) Consultant

“Role of hydrogen sulfide in angiogenesis and wound healing” Shriners’ Burns Foundation, USA, 2010-2014 Co-investigator (Principal Investigator: Csaba Szabo)

“Mechanisms and significance of hydrogen sulfide-induced angiogenesis” Heart and Stroke Foundation of Canada, G-11-HU-4580, 2011-2014, Co- Principal Investigation (PI: Sabah Hussain)

“Regulation of Soluble Guanylyl Cyclase, the NO-Receptor”, National Institutes of Health, RO1 GM 067640 2012-2015, (Principal Investigator: Annie Beuve) Consultant

“Regulation of angiogenesis by the 3-mercaptopyruvate sulfurtransferase/hydrogen sulfide axis” American Heart Association, Southwest Affiliate, 16SDG29860009, 2016-2019, Co-Investigator (PI Katalin Modis).

“Evaluation of fast and slow hydrogen sulfide donors in treatment of contractility in mice detrusor smooth muscle with acute and chronic interstitial cystitis” Hacettepe University, 2019-2020 Co-Investigator

“Role of hydrogen sulfide modulators in epithelial and endothelial to mesenchymal transition”, Swedish Research Council, 2020-2022, Host lab Principal Investigator