

## CURRICULUM VITAE

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### Education and Degrees

- 1982-1987: Undergraduate student at the Department of Biology, University of Patras, Patra, Greece. Diploma (**BSc**) in Biology.
- 1988-1994: Graduate student at the, National Hellenic Research Foundation, Athens, Greece. **PhD** Diploma in Molecular Biology, Biology Department, University of Athens, Athens, Greece.
- 1994-1996: Research Associate, in the context of the 23-months mandatory military service, at the laboratory of Pathology, Naval Hospital of Athens, Greece.
- 1996-1999: Post-Doctoral Research Associate at Mount Sinai Medical School, University of New York and Howard Hughes Medical Institute, NYC, USA.
- 1999-2000: Post-Doctoral Research Associate at Hellenic Pasteur Institute, Athens, Greece.

### Research activities

- 1986-1987: **Diploma thesis** on “Heat shock proteins of *Drosophila melanogaster*, *Ceratitidis capitata* and *Aspergillus nidulans*. A comparison”. University of Patras, Biology Department, Laboratory of Genetics, Cell Biology and Differentiation.
- 1987: **Visiting scientist** at the Laboratory of Genetic Biochemistry at the Necker Hospital, Paris. Work on the desegregation of the human chromosome 21.
- 1988-1994: **Ph.D. thesis** work at the National Hellenic Research Foundation on “Immunochemical identification and characterization of a novel nuclear RNP”.
- 1991: **Visiting scientist** at the Laboratory of Biochemistry, University of Nijmegen, Nijmegen, The Netherlands. Recipient of an **EMBO short-term fellowship**. Work on the cloning, through phage display, of a novel RNP protein.
- 1993: **National representative** in the **43rd Lindau Nobel Laureate Meeting**, Lindau, Germany.
- 1994-1996: **Research Associate**, in the context of the 23-months mandatory military service, at the laboratory of Pathology, Naval Hospital of Athens. Work on identification of possible prognostic and/or diagnostic markers of Breast Cancer using RT-PCR and immunocytochemistry.

- 1996-1999: **Research Associate** at the Rutenberg Cancer Center, Mount Sinai School of Medicine, and **Howard Hughes Medical Institute**, New York City, NY/USA. Work on the biochemistry of V(D)J recombination.
- 1999-2000: **Research Associate** at the Hellenic Pasteur Institute, Athens, Greece. Work on the Discovery of novel genes and/or pathways in the development of Rheumatoid Arthritis, using animal models, Differential Display PCR and DNA microarrays.
- 2000: **Visiting Scientist** at the laboratory of TAGC, INSERM/CNRS, University of Marseille at Luminy, France. Wet lab training on nylon DNA microarrays.
- 2000: Appointed (12/12/2000) as **Researcher grade C** (eq. Assistant Professor, tenure track) at the Institute of Immunology, Biomedical Sciences Research Center “Alexander Fleming”, Athens, Greece.
- 2001: **Visiting Scientist** at the laboratory of Genome Science, Genomic Exploration Research Group, RIKEN, Yokohama/Japan. Wet lab training on glass cDNA microarrays.
- 2002: **Visiting scientist**, recipient of an **EMBO short term fellowship**, at the Ludwig Institute of Cancer Research, University of Uppsala, Sweden. Wet lab training on glass cDNA microarrays. Work on the expression profiling of an animal model of Rheumatoid Arthritis.
- 2006: Appointed as **Researcher grade B** (eq. Associate Professor, tenure) at the Institute of Immunology, Biomedical Sciences Research Center “Alexander Fleming”, Athens, Greece.
- 2012: Appointed as **Researcher grade A** (eq. Full Professor) at the Institute of Immunology (now Bio-Innovation), Biomedical Sciences Research Center “Alexander Fleming”, Athens, Greece.

### Academic activities

- He has supervised 8 PhD students (plus 5 ongoing), 10 Master students (plus 2 ongoing) and 8 diploma students (plus 1 ongoing)(details at [Dissertations and theses](#)).
- He participated in several post graduate master courses in Greece; currently: [Molecular Biomedicine](#) and [Clinical Biochemistry and Molecular Diagnostics](#).
- He has been invited to present his work to a plethora of scientific conferences (A non-exhaustive list can be found at [Presentations](#)).
- He has served as a **reviewer** in >38 scientific journals (IF 3.51 -16.42), as well as in the [Faculty of F1000](#).
- He has served as a **reviewer/evaluator/rapporteur** of national and international grant proposals: ΓΓΕΤ, ΙΚΥ, ΕΛΙΔΕΚ, Alliance National de la Research (ANR), British Lung Foundation, German-Israeli Foundation, Netherland Organization for Scientific Research (NWO), Cyprus RIF, RIKEN/FANTOM, Welcome Trust, European commission/Marie Curie.
- In 2018, he received the **National Academy of Athens research award** for his work on the role of ATX in liver fibrosis and cancer.
- His lab is recognized as an “excellent” host center for respiratory research ([RESPIRE4](#))

## Other activities

- He pioneered (2000-2007) the use of DNA microarrays and related bioinformatic tools and set up the first expression profiling service unit in Greece offering services to Fleming and external researchers.
- He is a co-founder of [Biomedcode Hellas](#), a Fleming spin-off for preclinical evaluation studies and novel drug development and he has applied for eight patents (6 active).
- He is a founding member of the Scientific Society for Rare Diseases & Orphan Drugs ([SSRDOD](#)).
- He supervised (2005-2011) the creation of several [mouse databases](#), in the context of various international collaborations aiming to promote mouse database functionalities and interoperability.
- He setup the **Respiratory Unit** of BSRC Fleming and various animal models of lung diseases, allowing the investigation of pathogenetic genes and therapeutic interventions.
- He setup two **biobanks** with [idiopathic pulmonary fibrosis \(IPF\)](#) and [lung cancer](#) patient samples (sera, plasma, BALF, tissue), promoting translational research.
- He set up at the local MS facilities **lipidomics**, the quantification of more than 70 (lyso)phospholipids in biologic fluids and tissues.
- He has signed **>42 material transfer agreements** for proprietary materials (genetically modified mice and monoclonal antibodies)
- He established a **drug discovery pipeline** for the identification of novel ATX inhibitors, that can be applied for the pharmacological targeting of other novel drug targets.
- His work provided the **scientific proof of principle** for the ongoing [clinical trials](#) on ATX inhibition in IPF patients.

## Funding (Details at [Funding](#))

- 8 European and 18 Greek competitive (not infrastructural) research grants of a total budget of 4.057.349,06€ (not counting fellowships and awards prior to appointment).
- 4 research contracts/agreements with the international pharmaceutical industry.

**Selected Publications** (For full lists: [PubMed](#), [Google Scholar](#), [Fleming](#))

- The **FANTOM Consortium** (2005). The transcriptional landscape of the mammalian Genome. *Science*. 309(5740):1559-63
- Oikonomou N., Harokopos V., Zalevsky J., Valavanis C., Kotanidou A., Szymkowski D.E., Kollias G. and **Aidinis V.** (2006). Soluble TNF Mediates the Transition from Pulmonary Inflammation to Fibrosis. *PLoS One*. Dec 27, e108.
- Tzouvelekis A, Harokopos V., Paparountas T., Oikonomou N., Chatziioannou A., Vilaras G., Tsiambas E., Karameris A., Bouros D. and **Aidinis V.** (2007). Comparative Expression Profiling in Pulmonary Fibrosis Reveals a Primary Role of Hypoxia Inducible Factor 1a in Disease Pathogenesis. *Am J Respir Crit Care Med*. 2007 Dec 1;176(11):1108-19.
- Oikonomou N, Thanasopoulou A, Tzouvelekis A, Harokopos V, Paparountas T, Nikitopoulou I, Witke W, Karameris A, Kotanidou A, Bouros D and **Aidinis V.** (2009). Gelsolin mediated epithelial apoptosis is a primary pathologic insult in pulmonary inflammation and fibrosis. *Thorax*. 64(6): 467-75
- Kotsianidis I, Nakou E, Bouchliou I, Tzouvelekis A, Spanoudakis E, Steiropoulos P, Sotiriou I, **Aidinis V.**, Margaritis D, Tsatalas C, Bouros D., 2009, "Global Impairment of CD4+CD25+FOXP3+ T Regulatory Cells in Idiopathic Pulmonary Fibrosis.", *Am J Respir Crit Care Med*., 179(12):1121-30.
- Fotopoulou S, Oikonomou N, Grigorieva E, Nikitopoulou I, Paparountas T, Thanassopoulou A, Zhao Z, Xu Y, Kontoyiannis DL, Remboutsika E, **Aidinis V.** 2010, "ATX expression and LPA signalling are vital for the development of the nervous system.", *Dev Biol*., Mar 15;339(2):451-64. Epub 2010 Jan 15.
- Schofield PN, Eppig J, Huala E, de Angelis MH, Harvey M, Davidson D, Weaver T, Brown S, Smedley D, Rosenthal N, Schughart K, **Aidinis V**, Tocchini-Valentini G, Hancock JM. 2010, "Research funding. Sustaining the data and bioresource commons.", *Science*. , 2010 Oct 29; 330(6004):592-3.
- Mouratis MA, **Aidinis V.** 2011, "Modeling pulmonary fibrosis with bleomycin.", *Curr Opin Pulm Med*., 2011 Sep; 17(5):355-61.
- Nikitopoulou I, Oikonomou N, Karouzakis E, Sevastou I, Nikolaidou-Katsaridou N, Zhao Z, Mersinias V, Armaka M, Xu Y, Masu M, Mills GB, Gay S, Kollias G, **Aidinis V.** 2012, "Autotaxin expression from synovial fibroblasts is essential for the pathogenesis of modeled arthritis.", *J Exp Med*., 2012 May 7; 209(5):925-33. Epub 2012 Apr 9.
- Oikonomou N, Mouratis MA, Tzouvelekis A, Kaffe E, Valavanis C, Vilaras G, Karameris A, Prestwich GD, Bouros D, **Aidinis V.** 2012, "Pulmonary Autotaxin Expression Contributes to the Pathogenesis of Pulmonary Fibrosis.", *Am J Respir Cell Mol Biol*, 2012 Nov;47(5):566-74. Epub 2012 Jun 28.
- Sevastou I., Kaffe E., Mouratis M.-A. and **Aidinis V.** 2013. "Lysoglycerophospholipids in chronic inflammatory disorders.", *BBA*, Jan;1831(1):42-60. Epub 2012 Jul 31.
- Kaffe E, Katsifa A, Xylourgidis N, Ninou I, Zannikou M, Harokopos V, Foka P, Dimitriadis A, Evangelou K, Moulas AN, Georgopoulou U, Gorgoulis VG, Dalekos GN,

- Aidinis V.** 2016, "Hepatocyte Autotaxin expression promotes liver fibrosis and cancer", *Hepatology*, 2017 Apr;65(4):1369-1383.
- Magkrioti C, Oikonomou N, Kaffe E, Mouratis MA, Xylourgidis N, Barbayianni I, Megadoukas P, Harokopos V, Valavanis C, Chun J, Kosma A, Stathopoulos GT, Bouros E, Bouros D, Syrigos KN, **Aidinis V.** 2018, "The autotaxin - lysophosphatidic acid axis promotes lung carcinogenesis", *Cancer Res.*, 2018 Jul 1;78(13):3634-3644.
  - Ninou I, Magkrioti C, **Aidinis V.** Autotaxin in Pathophysiology and Pulmonary Fibrosis. *Front Med.* 2018 Jun 13; 5:180.
  - Matralis AN, Afantitis A, **Aidinis V.** "Development and therapeutic potential of autotaxin small molecule inhibitors: From bench to advanced clinical trials". *Med Res Rev.* 2019 May; 39(3):976-1013.
  - Magkrioti C, Galaris A, Kanellopoulou P, Stylianaki EA, Kaffe E, **Aidinis V.** "Autotaxin and chronic inflammatory diseases". *J Autoimmun.* 2019 Aug 27:102327.
  - A Tzouvelekis, O Eickelberg, N Kaminski, D Bouros, V **Aidinis** (Eds). Pulmonary Fibrosis. 2019. *Frontiers Media SA.*
  - Ninou I, Sevastou I, Magkrioti C, Kaffe E, Stamatakis G, Thivaivos S, Panayotou G, Aoki J, Kollias G, **Aidinis V.** Genetic deletion of Autotaxin from CD11b+ cells decrease the severity of experimental autoimmune encephalomyelitis. *PLoS One.* 2020 Apr 2;15(4):e0226050.
  - Magkrioti C, Kaffe E, Stylianaki EA, Sidahmet C, Melagraki G, Afantitis A, Matralis AN, **Aidinis V.** Structure-Based Discovery of Novel Chemical Classes of Autotaxin Inhibitors. *Int J Mol Sci.* 2020 Sep 23;21(19):7002.
  - Zannikou M, Barbayianni I, Fanidis D, Grigorakaki T, Vlachopoulou E, Konstantopoulos D, Fousteri M, Nikitopoulou I, Kotanidou A, Kaffe E, **Aidinis V.** MAP3K8 Regulates Cox-2-Mediated Prostaglandin E 2 Production in the Lung and Suppresses Pulmonary Inflammation and Fibrosis. *J Immunol.* 2021 Feb 1;206(3):607-620.
  - Ray R, Sinha S, **Aidinis V,** Rai V. Atx regulates skeletal muscle regeneration via LPAR1 and promotes hypertrophy. *Cell Rep.* 2021 Mar 2;34(9):108809.

Google Scholar 16/03/2021

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