

CURRICULUM VITAE

Family name, First name: **MITROULIS IOANNIS**

Date of birth: September 8th 1979

Work address: University Hospital of Alexandroupolis, Dragana 68100

E-mail: imitroul@med.duth.gr

PRESENT POSITION:

Associate Professor, Laboratory of Molecular Hematology and First Department of Internal Medicine, Democritus University of Thrace, Alexandroupolis, Greece

EMPLOYMENT

-06/2022 Associate Professor in Internal Medicine, First Department of Internal Medicine and Laboratory of Molecular Hematology, Democritus University of Thrace, Alexandroupolis, Greece

04/2018-: Assistant Professor in Internal Medicine, First Department of Internal Medicine, Democritus University of Thrace, Alexandroupolis, Greece

- 12/2017- 05/2015-3/2018: Physician and Group Leader at the Institute for Clinical Chemistry and Laboratory Medicine, University Clinic Carl Gustav-Carus, Technische Universität Dresden, Germany.

- 11/2012-04/2015: Post-Doctoral Training in Department of Clinical Pathobiochemistry and Institute for Clinical Chemistry and Laboratory Medicine, University Clinic Carl Gustav-Carus, Technische Universität Dresden, Germany

AWARDS

Research Award (2018): Deutsche Arbeitsgemeinschaft für Knochenmark- und Blutstammzelltransplantation, DAG-KBT) for the publication: Secreted protein Del-1 regulates myelopoiesis in the hematopoietic stem cell niche (Journal of Clinical Investigation; 2017, 127(10): 3624-3639)

RESEARCH INTERESTS AND EXPERIENCE

After the completion of my doctoral thesis at the Democritus University of Thrace under the supervision of Professor Konstantinos Ritis, which led to two publications in prestigious international journals (Mitroulis I. et al., 2010 Eur J. Immunol. and Mitroulis I. et al. 2012 PloS One), and having completed my training in internal medicine, I continued my research activities as a postdoctoral researcher at the laboratory of Prof. T. Chavakis at the Technische Universität Dresden (Institute of Clinical Chemistry and Laboratory Medicine (IKL), Uniklinikum, Dresden). From April 2015 to December 2017, I was actively involved as a physician in the clinical and diagnostic laboratory of IKL, with clinical duties at the Hematology lab. My research efforts led to two publications as main investigator in major journals (Mitroulis et al., Cell 2018, Mitroulis et al., Journal of Clinical Investigation 2017), studying the regulation of hematopoiesis in animal models. We studied the regulation of myelopoiesis by signals deriving from the bone marrow micro-environment, focusing on the extracellular matrix protein DEL-1, and by pathogen-derived stimuli that lead to training of the innate immune systems (Trained Immunity). The study published in the Journal of Clinical Investigation was awarded by the German Society of Bone Marrow and Peripheral Blood Cell Transplantation (DAG-KBT). Based on this study, I received funding as the principal investigator in 2017 from the Nationales Centrum für Tumorerkrankungen (NCT) to study the role of DEL-1 protein in myelodysplastic syndromes and myelogenous leukemia. I have been invited to present my work in international meetings (i.e. 2nd Innate Immune Memory Meeting, Hixton, UK, 2017, Radboudumc Summer Frontiers Symposium,

Nijmegen, the Netherlands, 2016). In April 2018, I became Assistant Professor of Internal Medicine at University Hospital of Alexandroupolis, Democritus University of Thrace. Except from myelopoiesis and myeloid lineage malignancies, my clinical and research interests involve the link between thrombosis and inflammation (thromboinflammation), focusing mainly on innate immune function.

PUBLICATION METRICS

H-Index: 43

Total Citations: >11000 (Scopus)

Mean Impact Factor= 9.4

FIVE SELECTED PUBLICATIONS (out of 99)

1. Kalafati L., Kourtzelis I., Schulte-Schrepping J., Li X., Hatzioannou A., Grinenko T., Hagag E., Sinha A., Has C., Dietz S., de Jesus Domingues A.M., Nati M., Sormendi S., Neuwirth A., Chatzigeorgiou A., Ziogas A., Lesche M., Dahl A., Henry I., Subramanian P., Wielockx B., Murray P., Mirtschink P., Chung K.-J., Schultze J.L., Netea M.G., Hajishengallis G., Verginis P., **Mitroulis I.***, Chavakis T. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity (2020) **Cell**, 183 (3), pp. 771 - 785.e12, **Cited 427 times**. DOI: 10.1016/j.cell.2020.09.058 (**IF=42,5**)
2. Mitroulis I., Ruppova K., Wang B., Chen L.-S., Grzybek M., Grinenko T., Eugster A., Troullinaki M., Palladini A., Kourtzelis I., Chatzigeorgiou A., Schlitzer A., Beyer M., Joosten L.A.B., Isermann B., Lesche M., Petzold A., Simons K., Henry I., Dahl A., Schultze J.L., Wielockx B., Zamboni N., Mirtschink P., Coskun Ü., Hajishengallis G., Netea M.G., Chavakis T. Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity (2018) **Cell**, 172 (1-2), pp. 147 - 161.e12, **Cited 809 times**. DOI: 10.1016/j.cell.2017.11.034 (**IF=42,5**)
3. Mitroulis I., Chen L.-S., Singh R.P., Kourtzelis I., Economopoulou M., Kajikawa T., Troullinaki M., Ziogas A., Ruppova K., Hosur K., Maekawa T., Wang B., Subramanian P., Tonn T., Verginis P., Von Bonin M., Wobus M., Bornhäuser M., Grinenko T., Di Scala M., Hidalgo A., Wielockx B., Hajishengallis G., Chavakis T. Secreted protein Del-1 regulates myelopoiesis in the hematopoietic stem cell niche (2017) **Journal of Clinical Investigation**, 127 (10), pp. 3624 - 3639, **Cited 81 times**. DOI: 10.1172/JCI92571(**IF=13,6**)
4. Tasis A., Papaioannou N.E., Grigoriou M., Paschalidis N., Loukogiannaki C., Filia A., Katsiki K., Lampranidou E., Papadopoulos V., Rimpa C.M., Chatzigeorgiou A., Kourtzelis I., Gerasimou P., Kyprianou I., Costeas P., Liakopoulos P., Liapis K., Kolovos P., Chavakis T., Alissafi T., Kotsianidis I., Mitroulis I. Single-Cell Analysis of Bone Marrow CD8+ T Cells in Myeloid Neoplasms Reveals Pathways Associated with Disease Progression and Response to Treatment with Azacitidine (2024) **Cancer Research Communications**, 4 (12), pp. 3067 - 3083, Cited 7 times. DOI: 10.1158/2767-9764.CRC-24-0310 (IF=3,3)
5. Kourtzelis I., Li X., **Mitroulis I.**, Grosser D., Kajikawa T., Wang B., Grzybek M., von Renesse J., Czogalla A., Troullinaki M., Ferreira A., Doreth C., Ruppova K., Chen L.-S., Hosur K., Lim J.-H., Chung K.-J., Grossklaus S., Tausche A.K., Joosten L.A.B., Moutsopoulos N.M., Wielockx B., Castrillo A., Korostoff J.M., Coskun Ü., Hajishengallis G., Chavakis T. DEL-1 promotes macrophage efferocytosis and clearance of inflammation (2019) **Nature Immunology**, 20 (1), pp. 40 - 49, **Cited 234 times**. DOI: 10.1038/s41590-018-0249-1(**IF=27,6**)