BIOGRAPHICAL SKETCH

IOANA MIHAI, MD, Phd	Associate Professor Department of Molecular and Cellular Biology, University of Medicine and Pharmacy of Craiova

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
High school "Traian Vuia" Craiova		06/95	Math-Physics
Faculty of Medicine, University of Medicine and Pharmacy Craiova	M.D.	09/02	General medicine
University of Medicine and Pharmacy Craiova	Ph.D.	05/09	Medicine
University of Medicine and Pharmacy "Carol Davila" Bucharest	Post-doc	2010-2012	Evaluation of innate immune system in various populations

A. Personal Statement

Mihai Ioana worked as researcher and/or project manager in more than 25 national and international research projects, establishing extensive ties with universities/research institutes at home and abroad. He is expert in a plethora of advanced laboratory techniques that purify, modify and analyze DNA, RNA: high throughput sequencing, real-time PCR, siRNA analysis, AFLP, MLPA, MSI, SNP, microarray, array-CGH. Many of these methods use very small amounts of biological samples harvested through a minimally invasive method with no complications. As post-doctoral fellow at the UMF "Carol Davila" Bucharest, Dr. Mihai Ioana was mostly focused on the evaluation of the NLR and TLR receptors in the pathogenesis of tuberculosis, in populations of different ethnic origins. Since 2009 his research experiments are mainly conducted in collaboration with Radboud University Medical Nijmegen Center, Nijmegen, The Nederlands. He is the leader of the Romanian partner (P8-UMFCV) within TANDEM, a four-year Collaborative Project funded by the EC under the 7th Framework Programme of the European Union. Mihai Ioana, the Human Genomics Laboratory coordinator, published more than 25 peer reviewed publications and reviews on population and evolutionary genetics, as well as on the genetic bases of complex diseases. He is the one of the current vice-presidents of the Romanian Society of Human Genetics.

B. Positions and Honors

POSITIONS AND EMPLOYMENT

2003 Junior Doctor - Emergency Clinical County Hospital Craiova
2004 - 2010 - Resident - Medical Genetics - Emergency Clinical County Hospital Craiova
2004 - 2011 - Teaching assistant, Department of Molecular and Cellular Biology, University of Medicine and Pharmacy of Craiova

2011 - 2014 -	Lecturer, Department of Molecular and Cellular Biology, University of Medicine and Pharmacy of Craiova
2012 -	Medical Geneticist - Emergency Clinical County Hospital Craiova
2014 -	Assoc. Professor, Department of Molecular and Cellular Biology, University of Medicine and Pharmacy of Craiova
2009 -	Visiting Researcher, Radboud University Medical Nijmegen Center, Nijmegen. The Nederlands

MANAGEMENT ACTIVITY

- **Coordinator**: Human Genomics Laboratory, University of Medicine and Pharmacy Craiova, Romania

NATIONAL PRIZES

- "Gheorghe Benga" Prize for researchers - 2010.

INTERNATIONAL CONFERENCES & INVITED PRESENTATIONS

- During the past 10 years, Dr. Mihai Ioana attended to more than 40 international congresses, symposiums and workshops (eg: European Human Genetics Conference, European School of Genetic Medicine courses, etc.)

C. Selected Peer-reviewed Publications

1. van Crevel R, Dockrell HM. TANDEM: understanding diabetes and tuberculosis. Lancet Diabetes Endocrinol 2014;2:270-2.
2. Stappers MH, Thys Y, Oosting M, Plantinga TS, Ioana M, Reimnitz P, Mouton JW, Netea MG, Joosten LA, Gyssens IC. Polymorphisms in cytokine genes IL6, TNF, IL10, IL17A and IFNG influence susceptibility to complicated skin and skin structure infections. Eur J Clin Microbiol Infect Dis 2014.
3. Stappers MH, Thys Y, Oosting M, Plantinga TS, Ioana M, Reimnitz P, Mouton JW, Netea MG, Joosten LA, Gyssens IC. TLR1, TLR2, and TLR6 Gene Polymorphisms Are Associated With Increased Susceptibility to Complicated Skin and Skin Structure Infections. J Infect Dis 2014.
4. Sandholm N, Salem RM, McKnight AJ, et al. New Susceptibility Loci Associated with Kidney Disease in Type 1 Diabetes. Plos Genetics 2012;8.
5. Puiu I, Stoica A, Sosoi S, Puiu A, Ioana M, Burada F. Terminal Deletion 2q37.3 in a Patient with Klippel-Trenaunay-Weber Syndrome. Fetal and Pediatric Pathology 2013;32:351-356.
6. Popa S, Pircalaboiu L, Mota M, Mota E, Dinu R, Rogoz S, Comanescu V, Ioana M. The Impact of Adipocytokines on Liver Histology in Chronic Hepatitis C. Diabetes Stoffwechsel Und Herz 2011;20:229-234.
7. Plantinga TS, Ioana M, Alonso S, Izagirre N, Hervella M, Joosten LAB, van der Meer JWM, de la Rua C, Netea MG. The Evolutionary History of TLR4 Polymorphisms in Europe. Journal of Innate Immunity 2012;4:168-175.
8. Mixich F, Ioana M, Voinea F, Saftoiu A, Ciurea T. Noninvasive detection through REMS-PCR technique of K-ras mutations in stool DNA of patients with colorectal cancer. Journal of Gastrointestinal and Liver Diseases 2007;16:5-10.
9. Mixich F, Ioana M, Mixich VA. Paternity analysis in special fatherless cases without direct testing of alleged father. Forensic Science International 2004;146:S159-S161.
10. Mendizabal I, Lao O, Marigorta UM, Wollstein A, Gusmao L, Ferak V, Ioana M, Jordanova A, Kaneva R, Kouvatsi A, Kucinskas V, Makukh H, Metspalu A, Netea MG, de Pablo R, Pamjav H, Radojkovic D, Rolleston SJH, Sertic J, Macek M, Comas D, Kayser M. Reconstructing the Population History of European Romani from Genome-wide Data. Current Biology 2012;22:2342-2349.
11. Martinez-Cruz B, Ioana M, Calafell F, Arauna LR, Sanz P, Ionescu R, Boengiu S, Kalaydjieva L, Pamjav H, Makukh H, Plantinga T, van der Meer JWM, Comas D, Netea MG, Genographic C. Y-Chromosome Analysis in Individuals Bearing the Basarab Name of the First Dynasty of Wallachian Kings. Plos One 2012;7.
12. Laayounia H, Oosting M, Luisia P, Ioana M, Alonsoe S, Ricaño-Poncef I, Trynkaf G, Zhernakovaf A, Plantinga TS, Shih-Chin C, W. M. van der Meerb J, Popp R, Soodh A, Thelmai BK, Wijmenga C, Joosten, L.A.B., Bertranpetit J, Netea MG. Convergent evolution in European and Rroma populations

reveals pressure exerted by plague on Toll-like receptors. Proceedings of the National Academy of Sciences 2014;Published online before print February 3, 2014.
13. Ioana M, Ferwerda B, Plantinga TS, Stappers M, Oosting M, McCall M, Cimpoeru A, Burada F, Panduru N, Sauerwein R, Doumbo O, van der Meer JWM, van Crevel R, Joosten LAB, Netea MG. Different Patterns of Toll-Like Receptor 2 Polymorphisms in Populations of Various Ethnic and Geographic Origins. Infection and Immunity 2012;80:1917-1922.
14. Ioana M, Ferwerda B, Farjadian S, Ioana L, Ghaderi A, Oosting M, Joosten LAB, van der Meer JWM, Romeo G, Luiselli D, Dediu D, Netea MG. High variability of TLR4 gene in different ethnic groups in Iran. Innate Immunity 2012;18:492-502.
15. Ioana M, Angelescu C, Burada F, Mixich F, Riza A, Dumitrescu T, Alexandru D, Ciurea T, Cruce M, Saftoiu A. MMR Gene Expression Pattern in Sporadic Colorectal Cancer. Journal of Gastrointestinal and Liver Diseases 2010;19:155-159.
16. Hervella M, Izagirre N, Alonso S, Ioana M, Netea MG, de-la-Rua C. The Carpathian range represents a weak genetic barrier in South-East Europe. BMC Genet 2014;15:56.
17. Gheonea DI, Ciurea ME, Saftoiu A, Ioana M. Quantitative RT-PCR Analysis of MMR Genes on EUS-Guided FNA Samples From Focal Pancreatic Lesions. Hepato-Gastroenterology 2012;59:916-920.
18. Derikx MH, Kovacs P, Scholz M, et al. Polymorphisms at PRSS1-PRSS2 and CLDN2-MORC4 loci associate with alcoholic and non-alcoholic chronic pancreatitis in a European replication study. Gut 2014.
19. Burada F, Plantinga TS, Ioana M, Rosentul D, Angelescu C, Joosten LA, Netea MG, Saftoiu A. IRGM gene polymorphisms and risk of gastric cancer. Journal of Digestive Diseases 2012;13:360-365.
20. Burada F, Dumitrescu T, Nicoli R, Ciurea ME, Rogoveanu I, Ioana M. Cytokine Promoter Polymorphisms and Risk of Colorectal Cancer. Clinical Laboratory 2013;59:773-779.
21. Burada F, Dumitrescu T, Nicoli R, Ciurea ME, Angelescu C, Mixich F, Ioana M. IL-1RN+2018T > C polymorphism is correlated with colorectal cancer. Molecular Biology Reports 2013;40:2851-2857.
22. Burada F, Angelescu C, Mitrut P, Ciurea T, Cruce M, Saftoiu A, Ioana M. Interleukin-4 receptor-3223C -> T polymorphism is associated with increased gastric adenocarcinoma risk. Canadian Journal of Gastroenterology 2012;26:532-536.
23. Burada F, Angelescu C, Ioana M, Riza AL, Mitrut P, Dinu R, Moraru E, Mixich F, Cruce M, Saftoiu A. Association of Interleukin 1 beta Gene and Interleukin 1 Receptor Antagonist Gene Polymorphisms and Gastric Cancer Risk. Advances in Clinical and Experimental Medicine 2011;20:423-429.
24. Angelescu C, Burada F, Ioana M, Angelescu R, Moraru E, Riza A, Marchian S, Mixich F, Cruce M, Saftoiu A. VEGF-A and VEGF-B mRNA expression in gastro-oesophageal cancers. Clinical & Translational Oncology 2013;15:313-320.

D. Research Support (past three years)

INTERNATIONAL GRANTS

- P8-UMFCV director of the FP7-Infrastructures project no. FP7-HEALTH-2012-INNOVATION-1 HEALTH-F3-2012-305279. Grant Agreement Number 305279. Project title: Concurrent Tuberculosis and Diabetes Mellitus; unraveling the causal link, and improving care (TANDEM). Collaborative Project. Small or Medium-scale focused research project. Funding Mechanism: Programme grant. Health.2012.2.3.2-2. Co-morbidity between infectious and non-communicable diseases [2013-2017].
- Member of a major infrastructure grant funded from E.U. structural funds + Capacities program “Center of Treatment and Research in Gastroenterology based on Imaging Methods and Molecular Techniques” – TARGET, Romanian National Agency for Scientific Research (NASR) [2008-2013]

NATIONAL GRANTS

- Grant director Program CAPACITY - Module III - Projects supporting Romania's participation in international research projects – FP7. “Concurrent Tuberculosis and Diabetes Mellitus; unraveling the causal link, and improving care (TANDEM)”. 217EU. [2013-2017].
- Grant member ERC-like PNCDI II – subprogramme Ideas, “Real-time Evaluation of Treatment Effects in Advanced Colorectal Carcinoma” – REACT, ID PNII-CT-ERC-2012-1, based on external evaluation organized by the European Research Council (ERC) [2012-2015]
- Grant member “Minimal invasive assessment of angiogenesis in pancreatic cancer based on imaging methods and molecular techniques” – Angio-PAC, based on external evaluation organized by the National Research Council (NRC) [2011-2014]

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