

RESUME VITA



Dumitru Andrei Iacobas, PhD

Research Professor and Director of the Personalized Genomics Laboratory
CRI Center for Computational Systems Biology
Department of Electrical and Computer Engineering
Roy G Perry College of Engineering
Prairie View A7M University
daiacobas@pvamu.edu; tel. +1(936)261-9926
https://www.researchgate.net/profile/Dumitru_Iacobas

Naturalized US Citizen (2011), Immigrated from Romania in 2001 on an O1 (outstanding) visa sponsored by the Albert Einstein College of Medicine, New York, NY.

EDUCATION – PhD Physics, University of Bucharest (Romania) 1994

ACADEMIC APPOINTMENTS

2018 – present: **Research Professor** of Systems Biology, ECE, Roy G Perry College of Engineering, PVAMU
2013 - 2017 **Associate Professor (2014)/Assist Prof** of Pathology, New York Medical College, Valhalla, NY
2006 - 2013 **Assistant Professor** of Neuroscience, Albert Einstein College of Medicine, New York, NY
2001 - 2006 **Visiting Associate Professor** of Neuroscience Albert Einstein College of Medicine, Bronx, NY
1990- 2001 **Assistant Professor** of Biophysics, Biostatistics and Medical Informatics, Ovidius University School of Medicine, Constanta, Romania
1981 - 1990 **Instructor** Biophysics and Physiology, Carol Davila University of Medicine and Pharmacy – School of Medicine, Bucharest, Romania (1981-1990)
1978 - 1981 **Lecturer** Physics & Biophysics, Natl Coll of Natural Sciences Mihai Eminescu, Constanta,
1976 - 1978 **Lecturer** Physics, Natl Coll of Mathematics and Physics, Mircea cel Batran, Constanta, Romania

ADMINISTRATIVE APPOINTMENTS

2018-present **Director** of the Personalized Genomics Laboratory, CCSB, PVAMU, Prairie View, TX 77446
2013-2017 **Director** of Systems Biology Core laboratory, New York Medical College, Valhalla, NY10595
2002 - 2006 **Associate-Director** Molecular Biology & Neurogenomics Core Laboratory, DP Purpura Department of Neuroscience, Albert Einstein College of Medicine, New York, NY
2002 - 2005 **Co-Director** Biometry Core, Kennedy Center for Research in Mental Retardation and Human Development, New York, NY
1990-2001 **Head Division** Biophysics, Biostatistics and Medical Informatics, Ovidius University, Constanta
1990-1992 **Scientific Secretary** Ovidius University Medical School, Constanta, Romania
1990-1992 **Director** Nuclear Medicine Laboratory, Constanta District University Hospital, Constanta, Romania
1978-1981 **Associate Principal** for Student Affairs, National College “M. Eminescu”, Constanta, Romania
1977-1978 **Director** Electron Microscopy Laboratory, Central Institute for Sheep Research, Constanta, Romania

EXPERIENCE AND ACHIEVEMENTS IN ARTS AND SCIENCE

Mathematics – Physics – Chemistry – Biology

- **Teaching:** Biophysics, Biostatistics, Cellular Biophysics, General Physics, Genomics, Human Physiology and Clinic Laboratory, Mathematical Modeling of Biological Systems, Medical Informatics, Molecular Biophysics, Systems Biology at Romanian and NY medical schools.
- **\$\$\$ in Grant support** for researches in mathematics-physics-chemistry applications to biology and medicine awarded by agencies from USA, Romania, Colombia, Germany, Brazil and Italy
- **Peer-reviewed publications:** 3 patents, 7 books, 15 book chapters, 14 proceedings, 93 articles, 82 genomic databases etc (list attached), most as single, first or corresponding author.

- **Invited seminars and lectures** at numerous academic institutions worldwide (list attached).
- **Organizer, chair and presenter of international schools and conferences** (list attached).

Social Work, Behavioral and Political Sciences

- **Principal Investigator** Project 4: “Survey of women’s health in the city of Constanta”, 01/01/98-02/28/01 within **AIHA/USAID Program: Healthy Communities/Women's Wellness Partnership**.
- **Honorary Citizen** of Louisville, **KY** (1999), commissioned by David L Armstrong, Mayor
- **Honorary Citizen** of Jefferson County, **KY** (1999), com by Hon R Jackson, County Judge/Executive
- **Latinoamericano honorario** awarded by the University of Lujan, **Argentina**
- **Book: Iacobas DA.** (1995) Social pathology and therapy, Bucharest: Bucura Mond Ltd. ISBN 973-96889-5-0 (1st European PHARE Prize for “Young scientists and politicians in the civil society”).

Language & Communication, Music & Theatre

- **Written:** 1 drama-script, 1 musical script, 3 novels, countless poems
- **Produced and Directed:** 1 student drama, 1 student musical
- **Presented:** “Universe, Matter, Life”, 1h weekly series (1988) on the (Romanian) National TV
- **Social and political debates** on (Romanian) national and local media (TV, radio, magazines, journals)

EDITORIAL ACTIVITY

- Editor:** - Tilia Press International Ltd., Constanta, **Romania** (1997-2001)
- Guest Editor:** - Special MDPI Genes Issue “Genomic fabric remodeling in neurological diseases”
- Associate Editor:** - Frontiers in Integrative Neuroscience (2007-present)
- Series “Advances in Ecological Sciences/Ecosystems and Sustainable Development”, WIT Press, Ltd., Southampton, **UK**; 2001-2005.
- Book Reviewer:** - Advances in Medical Physics, Biophysics and Biomaterials, Male Centrum, Bratislava, **Slovak Republic**; 1997

- GRANT REVIEWER:** 2010 NIH SBIR Topic 110
- 2010-2017 General Directorate for Health and Technologies Research, Ministry of Labor, Health and Social Policies, **Italy**
- 2011-2017 National Council for Scientific Research, **Romania**
- 2014-2017 National Science Centre, **Poland**

ELECTED POSITIONS

- 2012 **Chair** Colloquium “Intercellular Signaling and Myelination”, 43rd Ann Meeting of the American Society for Neurochemistry, Baltimore, MD, March 03-07/2012.
- 2002-2011 **Board of Microarray Core Directors**, Academy for Medical Development and Collaboration
- 2001-2007 Member Microarray Research Group of the Intl Assoc of the Biomolecular Research Facilities
- 2002 **Chair** Tutorial Session 13 International Symposium “Biomolecular Technologies”, Austin, TX
- 2001, 2003, 2005 **International Scientific Advisory Board and Session Chair** 3rd, 4th and 5th International Conferences “Ecosystems & Sustainable Development”, Alicante (**Spain**), Siena, (**Italy**), Cadiz, (**Spain**)
- 2001 **International Scientific Advisory Board and Session Chair** 1st International Conference on Sustainable Planning and Development, Skiathos Island, (**Greece**)
- 2001 **International Scientific Advisory Board and Session Chair** 13th International Conference of the International Society for Environmental Epidemiology, Garmisch-Partenkirchen, (**Germany**)
- 1999 **International Advisory Group for the introduction of a Biomathematics MS in Colombia**
- 1995, 1996 **Chair 1st and 2nd International Conferences** “Sustainable Development: System Analysis in Ecology”, Dnepopetrovsk (1995), Sevastopol (1996), (Ukraine)
- 1994-2000 **Founding President of Eastern and Central European Society of Mathematical Ecology.**
- 1993-1997 **Founding President** of the charitable organization “Heart and Soul”, Constanta, Romania
- 1993-1997 **Founding President** of SIMPAC Foundation to help young investors understanding the market economy

TEACHING EXPERIENCE

A. EDUCATIONAL LEADERSHIP ROLES

1990-2001 **Founding Head** of Division of Biophysics, Biostatistics and Medical Informatics, Ovidius University School of Medicine, Constanta, Romania

1978-1981 **Associate Principal** for Students Affairs, National College of Natural Sciences "M. Eminescu", Constanta, Romania

B. DIDACTIC COURSEWORK

1) Undergraduate level:

"Mircea cel Batran" National College of Mathematics and Physics, Constanta, Romania

- Physics, Physics Laboratory (20h/week) 1976-1978

"M. Eminescu" National College of Natural Sciences, Constanta, Romania

- Physics, Biophysics, Physics Laboratory (18h/w) 1978-1981

"Ovidius" University Faculty of Natural Sciences, Constanta, Romania

- Biophysics Lectures in Romanian, English and French for Biology and Ecology majors, credit 2 semester hours 1990-2001
- General Physics for foreign MD students in English and French, credit 2 semester hours 1992-1994
- Mathematical Modeling of Biosystems for Biology and Ecology majors, credit 2 semester hours 1994-2000

Prairie View A&M University, College of Engineering

- Biophysics and Medical Physics for Bioengineers, Special topic, ELEG 4103, Credit 3 semester hours (cancelled because of not enough enrolled students) 2018

2) Postgraduate level:

"Carol Davila" University of Medicine & Pharmacy, Bucharest, Romania

- Biophysics - practical classes, credit 2 semester hours 1981-1988
- Seminars of Bioinformatics, credit 2 semester hours 1981-1988
- Physiology & Clinical lab - practical classes, credit 2x2 semesters hours 1988-1990
- Computational Methods in Physiology – Open course, credit 2 semester hours 1988-1990
- Connexins, Calcium waves and myelination, 2h/y Invited lecture within the optional Neuroscience course of Prof. L. Zagrean, Chair Department of Physiology 2008-2009

"Ovidius" University School of Medicine, Constanta, Romania

- Biophysics (in Romanian, English and French) for MD and DDR, credit 2 semester hours 1990-2001
- Biostatistics (in Romanian and English) for MD and DDR students, credit 2 semester hours 1992-2001
- Medical Informatics (in Romanian and English) for MD and DDR students, credit 2 semester hours 1992-2001

Universidad de Caldas, Manizales, Colombia

- Bioestadística médica (in Spanish), 14 hrs, Intensive Introductory Course within an exploratory MS program in biomathematics in Colombia. 1999

Albert Einstein College of Medicine of Yeshiva University, Bronx, NY

- "Transcriptomics" lecture within collective course "Modern techniques applied to neuroscience", Credit 6h/year 2003-2012
- "Mathematical modeling of intercellular communication", 2hrs, Kennedy Center Computational

- Neuroscience Club 2005
- "Microarray technology between fishing expedition and hypothesis driven research", 2h, Kennedy Center Computational Neuroscience Club 2005
- New York Medical College – School of Medicine, Valhalla, NY**
- “Microarrays to explore functional genomic fabrics” within collective course “Bioinformatics and Functional Genomics”, credit 2h/y 2013-2016
- New York Medical College – Graduate School of Basic Medical Sciences, Valhalla, NY**
- “Ecosystems stability and evolution” within collective course “Evolutionary Medicine”, Credit 2h/y, 2016-2017

C. CURRICULUM DEVELOPMENT WORK

Introduced the following new courses:

“Ovidius” University, Constanta, Romania

- Biophysics Lectures in Romanian, English and French for MD, DDR, Biology and Ecology students,
- Biostatistics Lectures in Romanian and English for MD and DDR students,
- General Physics for foreign MD students in English and French,
- Mathematical Modeling of Biosystems for Biology and Ecology students

University of Caldas, Manizales, Colombia

- Bioestadística médica (in Spanish), 14 hrs, Intensive Introductory Course within an exploratory MS program in biomathematics in Colombia

Prairie View A&M University, Prairie View, TX

- “Biophysics and Medical Physics for Bioengineers”, Special topic, ELEG 4103

D. MENTORING AND NON-DIDACTIC TEACHING

1. Former academic institutions

- mentored numerous postdocs, postgraduate (PhD, MD, PharmD, MS) and undergraduate students at Carol Davila University of Medicine and Pharmacy (Bucharest), Ovidius University (Constanta), Albert Einstein College of Medicine (New York) and New York Medical College (Valhalla).

2. PVAMU

- mentored the Computer Engineering student Nneka Ede, recipient of the **PVAMU – Undergraduate scholarly research award** with the project “Development of Cancer GMR Software Package for Personalized Cancer Gene Therapy.
- mentor of the Electrical and Computer Engineering graduate student Mohamed Ahmed with the project “Development of a mobile APP to optimize medical diagnostic”
- organizer of the public CCSB seminars on Systems Biology

E. CONTINUING MEDICAL EDUCATION (CME accredited seminars)

“Gene Master Regulators approach may provide the most legitimate targets for cancer gene therapy”, Baylor College of Medicine **Division of Pediatric Hematology-Oncology**, Houston 10/25/2018, host: Dr. T Horton.

“The personalized GMR approach of thyroid cancer gene therapy”, **MD Anderson Cancer Center**, University of Texas, Houston, TX, 1/26/2018. Host: Dr. G. Calin, Co-Director, The RNA Interference and non-coding RNA Center.

“Hierarchical gene master regulators of papillary and anaplastic thyroid cancer phenotypes”, **New York Medical College Dept. of Otolaryngology**, Valhalla, 9/9/2017, host Dr. A Moscatello, Chair

“Remodeling of host and pathogen genomic fabrics’ topology and interplay in infections”. New York Medical College, **Dept. of Microbiology and Immunology**, Valhalla, NY. 3/12/2015, Host. Dr. Cabbello F.

“Genomic fabric remodeling in microflora-induced colon cancer”, **Gastroenterology Grand rounds**, New York Medical College, Valhalla, NY. 12/11/2014, Host. Dr. E. Lebovics, Chief Division of Gastroenterology and Hepatobiliary Diseases, Department of Medicine.

“Mathematics of the cardiovascular disorders – correlation between pathophysiological and genomic data”, Cardiology fellow’s research conference, New York Medical College, **Heart Failure & Pulmonary Hypertension**, Department of Medicine, Valhalla, NY. 12/3/2014, Host. Dr. G. Lanier, Director.

“Remodeling of Cardiac Genomic Fabrics in Disease and Treatment”, **Pharmacology Dept.**, New York Medical College, Valhalla, NY. 12/11/2013. Host. Dr. ML Schwartzman, Chair.

“Developmental sex dichotomy of the heart rhythm determinant gene fabric”, 6/28/2010. Albert Einstein College of Medicine, **Department of Obstetrics & Gynecology and Women's Health**. Host: Dr. A Etgen.

“Topology and dynamics of the myelination genomic fabric”. 12/4/2009. Albert Einstein College of Medicine, **Department of Neuroscience**. Host: Dr. D.C. Spray.

“3D mathematical model of intercellular Ca²⁺ signaling in healthy and diabetic rat bladder and corpora”. 2/8/2009. Albert Einstein College of Medicine, **Department of Urology**. Host: Dr. A. Melman Chair.

“Alteration of transcriptomic networks in adoptive-transfer experimental autoimmune encephalomyelitis”. 6/30/2007. Albert Einstein College of Medicine, **Department of Neuroscience**. Host: Dr. E. Scemes.

“Large scale transcriptomic analysis using oligonucleotide and cDNA microarrays”, 6/11/2006. Albert Einstein College of Medicine, **Department of Genetics**. Host: A. Massimi, Director Microarray Core.

“Cancer patterns in the pre-Hilbert space of standard gene expressions”, **Division of Oncology**, Montefiore Hospital, Bronx, NY. 28/07/2000. (Hosted: Dr. L. Augenlicht).

“¿Porque estudiar las biomatemáticas en las ciencias de la salud?” **Facultad de Enfermería** Universidad Libre de Pereira. Pereira, **Colombia**. 12/05/1999 (Host: Prof. Liliana E Achury, Dean)

Visiting Faculty

- Visiting Associate Professor, Dept. of Neuroscience, Albert Einstein College of Medicine, NY (2001 – 2006)
- Visiting Associate Professor, Dept. Experimental Biophysics, Humboldt University, Berlin, **Germany**, 1996 (2 months sponsored by the German Academy)
- Visiting Assistant Professor, Institute of Biophysics, University of Ljubljana, Ljubljana, **Slovenia**, 1993 (3 weeks sponsored by the University of Ljubljana)
- Visiting Assistant Professor, Dept. Biophysics & Nuclear Medicine, Université Bretagne Occidentale School of Medicine, Brest, **France**, 1992 (2 months sponsored by the European Tempus Program).

RESEARCH SUPPORT since 03/01/2001 when immigrated in the U.S.A.

- **NIH R01 NS34931:** Gap junction and Schwann Cells, **Co-Investigator** (PI: DC Spray), 04/01/98-3/31/03, \$860,000
- **NIH R21 NS42807:** Optimized microarray analysis of neural differentiation, **Co-Principal Investigator** (PI DC Spray), 09/29/01-9/28/03. \$415,000.
The project was ranked in the 2.0 percentile.
- **NIH 3P30 HD001799-40S1:** Support for RF Kennedy Mental Retardation Research Center (PI: D Faber), **Co-Director** Biometry Core; **Associate Director** Molecular Biology & Neurogenomics Core, 07/01/02-06/30/06, \$2,075,000
- **NIH PO1 (DK060037):** Smooth Muscle Differential Function and Diabetes, (PD A Melman), **Investigator** Project #4 and Core C (Mathematical modeling), 04/01/03-1/31/08; \$11,666,000
- **NIH PO1 HD32573:** Hypoxia in development: injury and adaptation mechanisms (PD GG Haddad), **Principal Investigator and Director of Core D** “Computational and Functional Genomics”, 02/10/05-7/31/10, \$12,125,000.
The PD was ranked in the 0.5 percentile, with Core D getting the best score.
- **NIH RO1 HL073732:** Stem Cell Based Therapies in Chagasic Cardiomyopathy, (PI: AC Campos de Carvalho) **Investigator**, 7/15/2003-6/30/2012. \$4,150,000
- **NIH 5R01HL092001:** Connexin-Dependent Transcriptomic Networks in Controlling the Heart Rhythm **Principal Investigator**, 7/01/2009-6/30/2012. \$830,000
- **Citizens United for Research in Epilepsy (CURE):** Developing and testing novel treatments for infantile spasms, **MPI:** L Velisek, CE Stafstrom, **DA Jacobas**, 01/01/13-12/31/14. \$333,000
- **NIH 5R01AI045801-12 ADM SUPPL:** B Burgdorferi tick phase genes and Lyme disease (PI I Schwartz), **Investigator**, 7/01/13-6/30/14, \$166,000
- **Universidade Federal do Rio de Janeiro (contract):** Retina cytoprotection by overexpressing Max gene, **Principal Investigator**, 03/21/14-04/30/14, \$5,000
- **NYMC INTRAMURAL:** Endothelial Disruption Precedes Neointima Formation in Pulmonary Hypertension, (PI R Mathew), **Investigator**, 07/01/14-06/30/15, \$20,000
- **BOEHRINGER-INGELHEIM:** Chicken Egg Genotoxicity and Carcinogenicity Assessing Assay for Use as an Alternative Preclinical Model to Investigate Drug-Induced Toxicity with Special Interest in Carcinogenicity Testing (PI G Williams), **Investigator**, 09/01/14-08/31/16, \$1,245,000
- **NYMC Department of Pathology:** Genomic fabric remodeling and daptomycin resistance in *E. faecium* infection, **Principal Investigator**, 11/01/14-10/31/15, \$10,000
- **WESTCHESTER MEDICAL CENTER:** Computerized system for cardiology services, **Principal Investigator**, 07/01/15-06/30/17, \$10,000
- **NYMC Department of Pathology:** Quantifying cancer-associated remodeling of key genomic fabrics by next gen sequencing, **Principal Investigator**, 07/01/15-06/30/17, \$10,000
- **Universidade Federal do Rio de Janeiro (contract):** Transcriptomic alterations in crushed rat retina, **Principal Investigator**, 3/01/2017-6/30/2017, 3/01/2017-6/30/2017, \$5,000
- **Texas A&M University System Chancellor's Research Initiative:** The Computational Biology and Bioengineering Research Center (PI L Qian), **Investigator**, 09/01/17-08/31/20. \$6,000,000
- **NSF 1736196:** HBCU-RISE: Bridging Quantitative Science with Biological Research: Jumpstarting Computational Systems Biology Research at PVAMU (PI L Qian), **Investigator**, 09/01/17-08/31/20, \$1,000,000
- **PVAMU – Undergraduate scholarly research award:** Development of Cancer GMR Software Package for Personalized Cancer Gene Therapy, **Advisor**, 10/01/18-08/31/19; \$10,000
- **PVAMU Faculty Research Development Grant Program:** Complement C5ar1 Antagonists for the Treatment of Autism Spectrum Disorders, **Principal Investigator**, 01/25/19-08/31/19, \$16,000

RESEARCH SUPPORT before 03/01/2001 (\$\$ not available, foreign currencies)

- **(Romanian) Ministry of Culture (Literary Fund):** Procedure to analyze the human genome in the pre-Hilbert space of standard gene expression, **Principal Investigator**, 07/01/00-06/30/01

- **Ministero de Educacion Nacional de Republica Colombia:** Maestria en biomatematica, **Principal Investigator** Biostatistics Project, 03/01/99-28/02/01
- **AIHA, USAID, University of Louisville-KY:** Healthy Communities/Women's Wellness Partnership. Areas of Focus: Community Health, Women's Health, **Principal Investigator** Project 4: "Survey of women's health in the city of Constanta, 01/01/98-02/28/02
- **Lehrstuhl fur Experimentelle Biophysik des Institutes fur Biologie der Humboldt-Universitat, Berlin, Germany:** Untersuchungen zur pharmacologischen Beeinflussung von Ionenkanalen, insbesondere mit der Methode der Patch-Clamp-Messung. Insbesondere soll die Einwirkung von Ascorbinsaure (Vitamin C) untersucht werden, **Principal Investigator**, 05/01/96-10/31/96
- **(Romanian) Ministry of Scientific Research:** Lacustrine ecosystem stability and evolution in the District of Constanța, **Principal Investigator**, 10/01/95-09/30/98
- **Unita Sanitaria Triestina (Italy):** Phantom design for radio-diagnostic and radio-therapy with anti-inflammatory and anti-tumor drugs, **Principal Investigator**, 09/01/95-10/31/95
- **European program "Biomembrane Network":** The structure and dynamics of biological membranes and related lipid-water model membrane systems as revealed by the application of advanced biophysical methods, **Principal Investigator** for Romania, 09/01/93-08/31/95
- **Università degli Studi di Trieste (Italy):** Unsaturated gamma lactone compound action on bio-electrogenesis. Microscopical and macroscopical effects, **Principal investigator**, 09/01/90-08/31/92.

PUBLICATIONS

I. STEM PUBLICATIONS

A. PATENTS

- 3 **Iacobas DA**, Amuzescu B. (1991). Device to clean and stabilise the patch-clamp pipettes (Romanian: Instalație pentru curățirea și stabilizarea micropipetelor de patch-clamp). Patent No.108844 (Romania).
- 2 **Iacobas DA**, Amuzescu B, Ciontu C. (1988). Procedure to fabricate the micro-pipettes for single-channel current recording (Romanian: Procedeu de realizare a micropipetelor pentru culegerea curenților ionici unicanal din biomembrane). Patent no. 102203 (Romania).
- 1 **Iacobas DA**, Ailoaie, C. (1986). Micro-pipette puller (Romanian: Aparat pentru confecționarea micropipetelor din sticla). Patent no. 96704 (Romania).

+ numerous technical innovations in biophysics, nuclear medicine and genomics

B. BOOKS

- 6 **Iacobas DA**. (2000, 4th English edition). Ideas and Methods in the Physics of the Living. (total 7 editions: 4 English + 3 Romanian), Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-6-4
- 5 **Iacobas S**, **Iacobas DA** (2000). Pharmacology of the nervous system (in Romanian). Constanta: Tilia Press Int. ISBN 973-98470-8-0.
- 4 **Iacobas DA**, **Iacobas S** (1998) Electrophysiology of the cell membrane (in Romanian) Constanta: Tilia Press Intl., Ltd. ISBN 973-98470-1-3.
- 3 **Iacobas DA**. (1997, 3rd English edition). Medical Biostatistics. (Total 7 editions: 3 English + 2 Romanian + 1 Spanish + 1 Greek), Bucharest: Bucura Mond. ISBN 973-97977-3-3.
- 2 **Iacobas DA**. (1996, 2nd English edition) Molecular Biophysics. (Total 4 editions: 2 English +2 Romanian) Bucharest: Bucura Mond. ISBN 973-97977-0-9
- 1 **Iacobas DA**. (1996, 2nd English edition) Cell Biophysics. (Total 4 editions: 2 English + 2 Romanian), Bucharest: Bucura Mond. ISBN 973-97977-2-5

+ **Iacobas DA** (1993-2000, Editor) *Practical Works of Biophysics*. Ovidius University Press, (7 Romanian + 5 English editions).

C. BOOK CHAPTERS

- 15 Veliskova J, **Iacobas DA**, **Iacobas S**, Velisek L. (2017). Hormonal modulation of neuronal excitability. In *Reference Module in Neuroscience and Biobehavioral Psychology*, Elsevier, 1-6. <http://dx.doi.org/10.1016/B978-0-12-809324-5.00082-1>
- 14 **Iacobas DA**, **Iacobas S**, Chachua T, Goletiani C, Sidelyeva G, Velíšková J, Velíšek L. (2013). Prenatal corticosteroids modify glutamatergic and GABAergic synapse genomic fabric: Insights from a novel animal model of infantile spasms. In RC Melcangi, GC Panzica (Editors): *Steroids and the Nervous System*, 25 (11) 964-979, Wiley Online Library. <https://onlinelibrary.wiley.com/doi/epdf/10.1111/jne.12061>
- 13 **Iacobas S**, Neal-Perry G, **Iacobas DA** (2013). Analyzing the cytoskeletal transcriptome: sex differences in rat hypothalamus. In Rolf Dermietzel (editor): *The Cytoskeleton: Imaging, Isolation, and Interaction, Neuromethods*, 79: 119:133, Springer New York Heidelberg Dordrecht London, ISBN 978-1-62703-266-7.
- 12 **Iacobas S**, **Iacobas DA** (2012). Effects of Chronic Intermittent Hypoxia on Cardiac Rhythm Transcriptomic Networks. In: L XI & TV Serebrovskaya (Editors): *Intermittent Hypoxia and Human Diseases*, New York: Springer. Pp. 15-28. ISBN 978-1-4471-2906-6 (eBook)
- 11 Adesse D, Goldenberg RC, Fortes FS, **Iacobas DA**, **Iacobas S**, Campos de Carvalho AC, de Nazareth M, Huang H, Tanowitz HB, Garzoni LR, Spray DC. (2011). Gap junctions and Chagas' disease. In Louis M Weiss & Herbert B Tanowitz (Editors): *Chagas Disease, Part B*, London Academic Press (by Elsevier), ISBN: 978-0-12-385895-5
- 10 Thi MM, **Iacobas DA**, **Iacobas S**, Spray DC. (2008). Fluid shear stress regulates vascular endothelial

growth factor gene in osteoblasts. In Mone Zaidi (editor): *Skeletal Biology and Medicine, Part B*, Wiley-Blackwell. ISBN: 978-1-573-31728-3.

9 **Iacobas DA**, Iacobas S, Spray DC (2005). Use of cDNA arrays to explore gene expression in genetically manipulated mice and cell lines. In S Dhein, FW Mohr & M Delmar (Editors): *Practical Methods in Cardiovascular Research*, Berlin-Heidelberg-New York: Springer-Verlag. ISBN: 3-540-40763-4. pp. 907-915. https://doi.org/10.1007/3-540-26574-0_45

8 **Iacobas DA**, Urban M, Iacobas S, Spray DC (2001). The “patholog” of the gene expression profile in evaluating the ecotoxin effects. In C Brebia, Y Vilacampa & J Uso (Editors): *Ecosystems and Sustainable Development*, WIT Press, Southampton, U.K. 733-742.

7 **Iacobas DA**, Iacobas S. (1997). Evaluation and validation of the health care system by the Theory of Pathologic. In E Kukurova (Editor): *Advances in Medical Physics, Biophysics and Biomaterials*, Bratislava (Slovak R) Male Centrum, pp. 175-179, ISBN-80-967064-7-0.

6 **Iacobas DA** (1997). Instead of introduction... In E Kukurova (Editor): *Advances in Medical Physics, Biophysics and Biomaterials*, Bratislava (Slovak R) Male Centrum, p. 1, ISBN-80-967064-7-0.

5 **Iacobas DA**. (1986). La thermodynamique des reseaux a l'analyse des phenomenes de transport dans les ecosytemes. In M Godeanu (editor): *Aspects energetiques et informationels dans les systhems vivants*, pp. 138-143.

4 Iacobas S, **Iacobas DA**. (1986). Le pathologique - synthese des informations sur l'organisme humain. In: M Godeanu (Editor): *Aspects energetiques et informationels dans les systhems vivants*, 127-134.

3 Spataru C, **Iacobas DA**. (1988). L'ordinateur personnel du medecin a la surveillance de l'évolution du malade. *Archives de l'Union Medicale Balkanique*. Tome XXVI. No.1-4. 118-119.

2 **Iacobas DA**, Sanda Iacobaş. (1985). Algoritm pentru optimizarea pe computer a unor tratamente medicamentoase. In A Florescu & E Niculescu Mizil (Editors): *Cibernetica aplicata*, Editura Academiei, Bucuresti, p.117-122

1 **Iacobas DA**, Iacobas S. (1980). Model of a theory of ecological efficiency (Romanian) In A Ionescu, R Stancu (Editors): *Ecologie si protectia ecosistemelor*. CMSN Pitesti, Romania, 62-66.

D. ARTICLES

93 Mathew R, Huang J, Iacobas S, **Iacobas DA** (2020). Pulmonary Hypertension Remodels the Genomic Fabrics of Major Functional Pathways. *Genes* 11(2), 126; <https://doi.org/10.3390/genes11020126>. **IF: 3.331. Open access.**

92 Iacobas S, Amuzescu B, **Iacobas DA** (2019). Up-Down and Left-Right by the Heart Transcriptome. *Genes*. <https://www.preprints.org/manuscript/201911.0243/v1>. **Open access.**

91 **Iacobas DA**. (2019). Commentary on “The Gene Master Regulators (GMR) Approach Provides Legitimate Targets for Personalized, Time-Sensitive Cancer Gene Therapy”. *J Cancer Immun* 1(1):31-33. **Open access.**

90 **Iacobas DA**, Iacobas S, Lee PR, Cohen JE, Fields RD (2019). Coordinated Activity of Transcriptional Networks Responding to the Pattern of Action Potential Firing in Neurons. *Genes* 10(10), 754. Doi: 10.3390/genes10100754. **IF: 3.484. Open access.**

89 Iacobas S, Ede N, **Iacobas DA** (2019). The Gene Master Regulators (GMR) Approach Provides Legitimate Targets for Personalized, Time-Sensitive Cancer Gene Therapy. *Genes* 10(8), 560. doi:10.3390/genes10080560. **IF: 3.484. Open access.**

88 **Iacobas DA**, Velisek L. (2018) Regeneration of neurotransmission transcriptome in a model of epileptic encephalopathy after antiinflammatory treatment. *Neural Regen Res*, 13(10):1715-1718, PMID: PMC6128045, doi: 10.4103/1673-5374.238607, **IF = 2.234. Open access.**

87 Kobets T, Iatropoulos MJ, Duan JD, Brunnemann KD, **Iacobas DA**, Iacobas S, Vock E, Deschl U, Williams GM (2018): Effects of Nitrosamines on the Expression of Genes Involved in Xenobiotic Metabolism in the Chicken Egg Alternative Genotoxicity Model. *Toxicol Sci*, 166(1), 82–96, doi: 10.1093/toxsci/kfy197. PMID: 30102407. **IF = 4.181.**

86 **Iacobas DA**, Iacobas S, Nebieridze N, Velisek L, Veliskova J (2018): Estrogen protects neurotransmission transcriptome during status epilepticus, *Front Neurosci*. 12:332. DOI: 10.3389/fnins.2018.00332. PMID: PMC6019481. **IF =4.294. Open access.**

85 **Iacobas DA**, Chachua T, Iacobas S, Benson MJ, Borges K, Veliskova J, Velisek L. (2018). ACTH and PMX53 recover the normal synaptic transcriptome in a rat model of infantile spasms. *Nature Sci Rep*. 8:5722,

PMCID: PMC5893534. DOI:10.1038/s41598-018-24013-x. **IF = 5.312. Open access.**

84 **Iacobas DA**, Tuli N, Iacobas S, Rasamny JK, Moscatello A, Geliebter J, Tiwari RM. (2018). Gene master regulators of papillary and anaplastic thyroid cancer phenotypes. *Oncotarget* 9(2), 2410-2424. doi: 10.18632/oncotarget.23417. PMCID: PMC5788649. **IF = 6.36. Open access.**

83 **Iacobas DA**, Iacobas S, Tanowitz HB, deCarvalho AC, Spray DC (2018). Functional genomic fabrics are remodeled in a mouse model of Chagasic cardiomyopathy and restored following cell therapy. *Microbes Infect.* 20(3), 185-195. doi: 10.1016/j.micinf.2017.11.003. PMID:29158000. **IF = 2.924**

82 **Iacobas DA**, Iacobas S (2017). Towards a Personalized Cancer Gene Therapy: A Case of Clear Cell Renal Cell Carcinoma. *Cancer & Oncol Res* 5(3): 45-52. DOI:10.13189/cor.2017.050301

81 Lee PR, Cohen JE, **Iacobas DA**, Iacobas S, Fields RD (2017). Gene networks activated by pattern-specific generation of action potentials in dorsal root ganglia neurons. *Nature Sci Rep.* 7:43765, doi: 10.1038/srep43765. PMCID: PMC5335607. **IF = 5.312. Open access.**

80 **Iacobas DA**. (2016) The Genomic Fabric Perspective on the Transcriptome between Universal Quantifiers and Personalized Genomic Medicine. *Biological Theory.* 11(3): 123-137. DOI 10.1007/s13752-016-0245-3

79 Kravchick DO, Hrdinka M, Iacobas S, **Iacobas DA**, Kreutz MR, Jordan BA. (2016) Synaptonuclear messenger PRR7 inhibits c-Jun ubiquitination and regulates NMDA mediated excitotoxicity. *EMBO J* 35(17):1923-34. doi: 10.15252/embj.201593070. PMID:27458189. **IF = 10.557. Open access.**

78 Velišková J, **Iacobas DA**, Iacobas S, Sidyelyeva G, Chachua T, Velišek L. (2015) Estradiol regulates neuropeptide Y release and the gene coupling with GABAergic and glutamatergic synapse in adult female rat dentate gyrus. *J Neuroendocrinol.* 27(12):911-20. PMID:26541912. **IF = 3.14**

77 Iyer R, Caimano MJ, Luthra A, Axline D, Corona A, **Iacobas DA**, Radolf JD, Schwartz I.(2015). Stage-Specific Global Alterations in the Transcriptomes of Lyme Disease Spirochetes During Tick Feeding and Following Mammalian Host-Adaptation. *Mol Microbiol.* 95(3):509-38. doi: 10.1111/mmi.12882. PMCID:PMC4429771. **IF = 4.42. Open access.**

76 Zia MTK, Vinukonda G, Vose L, Bhimavarapu BBR, Iacobas S, Pandey NK, Beall AM, LaGamma EF, **Iacobas DA**, Ballabh P. (2014) Postnatal glucocorticoid-induced hypomyelination, gliosis, neurologic deficits are dose-dependent, preparation-specific, and reversible. *Exp Neurol.* 263, 200-213. doi: 10.1016/j.expneurol.2014.09.013. PMCID:PMC4262645. **IF = 4.70. Open access.**

75 **Iacobas DA**, Iacobas S, Chachua T, Goletiani C, Sidyelyeva G, Velišková J, Velišek L. (2013). Prenatal corticosteroids modify glutamatergic and GABAergic synapse genomic fabric: Insights from a novel animal model of infantile spasms. *J Neuroendocrinol.* 25, 964-979. doi: 10.1111/jne.12061. PMCID: PMC3855178. **IF = 3.14. Open access.**

74 Friedman LK, Mancuso J, Patel A, Kudur V, Leheste J, Iacobas S, Botta J, **Iacobas DA**, Spray D. (2013) Transcriptome Profiling of Hippocampal CA1 after Early Life Seizure-Induced Preconditioning May Elucidate New Genetic Therapies for Epilepsy, *Eur J Neurosci* 38(1):2139-52. doi: 10.1111/ejn.12168. PMCID:PMC4354696. **IF =3.18. Open access.**

73 Iacobas S, **Iacobas DA**, Spray DC and Scemes E. (2012). The connexin43 transcriptome during brain development: importance of genetic background. *Brain Research.* 1487: 131-139. doi: 10.1016/j.brainres.2012.05.062. PMCID:PMC3501561. **IF = 2.84. Open access.**

72 Iacobas S, Thomas NM, **Iacobas DA** (2012). Plasticity of the myelination genomic fabric. *Mol Genet Genomics.* 287:237-246. doi: 10.1007/s00438-012-0673-0. PMID:22246408. **IF = 2.979**

71 Adesse D, Goldenberg RC, Fortes FS, **Iacobas DA**, Iacobas S, Campos de Carvalho AC, de Narareth M, Huang H, Tanowitz HB, Garzoni LR, Spray DC. (2011). Gap junctions and Chagas' disease. *Adv Parasitol*, 76: 63-81. doi: 10.1016/B978-0-12-385895-5.00003-7. PMCID:PMC3552244. **IF = 6.23. Open access.**

70 Lachtermacher S, Esporcate BLB, Fortes FSA, Rocha NN, Montalvo F, Costa P, Belem L, Rabischoffsky A, Neto HF, Vasconcelos R, **Iacobas DA**, Iacobas S, Spray DC, Thomas N, Goldenberg R, Campos de Carvalho A. (2011). Functional and Transcriptomic Recovery of Infarcted Mouse Myocardium Treated with Bone Marrow Mononuclear Cells. *Stem Cell Rev.* 8(1):251-61. doi: 10.1007/s12015-011-9282-2. PMCID:PMC3212608. **IF = 2.77. Open access.**

69 Soares MB, Lima RS, Souza BSF, Vasconcelos JF, Rocha LL, dos Santos RR, Iacobas S, Goldenberg RC, **Iacobas DA**, Tanowitz HB, Spray DC, Campos de Carvalho AC (2011). Reversion of gene expression alterations in hearts of mice with chronic chagasic cardiomyopathy after transplantation of bone marrow cells. *Cell cycle*, 10(9): 1448-1455. doi: 10.4161/cc.10.9.15487. PMCID:PMC3117044. **IF = 3.952. Open access.**

- 68 Thomas NM, Jasmin JF, Lisanti MP, **Iacobas DA** (2011). Sex Differences in Expression and subcellular Localization of Heart Rhythm Determinant Proteins. *Biochem Biophys Res Commun.* 406(1):117-22. doi: 10.1016/j.bbrc.2011.02.006. PMID:21296051. **IF = 2.30**
- 67 Iacobas S, **Iacobas DA** (2010). Astrocyte proximity modulates the myelination gene fabric of oligodendrocytes. *Neuron Glia Biology.* 6(3): 157-169. doi: 10.1017/S1740925X10000220. PMID: 21208491. **IF = 1.339**
- 66 Soares MBP, Lima RS, Rocha LL, Vasconcelos JF, Rogatto SR, dos Santos RR, Iacobas S, Goldenberg RC, **Iacobas DA**, Tanowitz HB, Campos de Carvalho AC, Spray DC. (2010). Gene expression changes associated with myocarditis and fibrosis in hearts of mice with chronic chagasic cardiomyopathy. *J Infect Dis.* 202(3):416-426. doi: 10.1086/653481. PMID:PMC2897928. **IF = 6.00. Open access.**
- 65 Adesse D, **Iacobas DA**, Iacobas S, Garzoni LR, Nazareth Meirelles M, Tanowitz HB, Spray DC. (2010). Transcriptomic signatures of alterations in a myoblast cell line infected with four strains of *Trypanosoma cruzi*. *Am J Trop Med Hyg.* 82(5): 846-54. doi: 10.4269/ajtmh.2010.09-0399. PMID:PMC2861399. **IF = 2.70. Open access.**
- 64 Lachtermacher S, Esporcate BLB, Montalvo F, Costa P, Rodrigues D, Belem, Rabischoffsky A, Neto HF, Vasconcelos R, **Iacobas DA**, Iacobas S, Dohmann H, Spray DC, Goldenberg R, Campos de Carvalho A. (2010). Cardiac gene expression and systemic cytokine profile are complementary in a murine model of post ischemic heart failure. *Braz J Med Biol Res.* 43(4):377-89. PMID:PMC3032498. **IF = 1.03. Open access.**
- 63 **Iacobas DA**, Iacobas S, Haddad GG. (2010). Heart rhythm genomic fabric in hypoxia. *Biochem Biophys Res Commun.* 391(4):1769-1774. doi: 10.1016/j.bbrc.2009.12.151. PMID:PMC2849310. **IF = 2.30. Open access.**
- 62 **Iacobas DA**, Iacobas S, Thomas N, Spray DC. (2010). Sex-dependent gene regulatory networks of the heart rhythm. *Funct Integr Genomics.* 10(1):73-86. doi: 10.1007/s10142-009-0137-8. PMID:PMC2835827. **IF = 2.48. Open access.**
- 61 Desruisseaux M, **Iacobas DA**, Iacobas S, Mukherjee S, Weiss LM, Tanowitz HB, Spray DC (2010). Alterations in the Brain Transcriptome in Plasmodium Berghei ANKA Infected. *J Neuroparasitology.* 1: 74-81. PMID: PMC3587055. **IF = 1.27. Open access.**
- 60 **Iacobas DA**, Suadican SO, Spray DC (2009) A 3d Pseudo-stochastic Model Of Intercellular Calcium Signaling In Smooth Muscle, *Biophys J*, 96(3), Suppl 1, 118a-119a. **IF = 2.46.**
<https://doi.org/10.1016/j.bpj.2008.12.524>. **Open archive**
- 59 Goldenberg RCS, **Iacobas DA**, Iacobas S, Rocha LL, Fortesa FSA, Vairoa L, Nagajyothi F, Carvalho ACC, Tanowitz HB, Spray DC (2009). Transcriptomic alterations in *Trypanosoma cruzi*-infected cardiac myocytes. *Microbes Infect* 11(14-15):1140-9. doi:10.1016/j.micinf.2009.08.009. PMID:PMC2825022. **IF = 2.86. Open access.**
- 58 Desruisseaux M, Nagajyothi FNU, Mukherjee S, **Iacobas DA**, Tanowitz HB, Spray DC (2008) Gene expression alterations in a mouse model of cerebral malaria. *BMC Proc* 2, P15 (2008) doi:10.1186/1753-6561-2-s1-p15. **Open access.**
- 57 **Iacobas DA**, Fan C, Iacobas S, Haddad GG. (2008). Integrated transcriptomic response to cardiac chronic hypoxia: translation regulators and response to stress in cell survival. *Funct Integr Genomics.* 8(3):265-75. doi: 10.1007/s10142-008-0082-y. PMID:PMC2856931. **IF = 2.48. Open access.**
- 56 **Iacobas DA**, Iacobas S, Urban-Maldonado M, Scemes E, Spray DC (2008). Similar transcriptomic alterations in Cx43 knock-down and knock-out astrocytes. *Cell Commun. Adhes.* 15:1, 195-206. doi: 10.1080/15419060802014222. PMID:PMC2583241. **IF = 1.244. Open access.**
- 55 Frigeri A, **Iacobas DA**, Iacobas S, Nicchia GP, Desaphy JF, Camerino DC, Svelto M, Spray DC (2008). Effect of microgravity on brain gene expression in mice. *Exp Brain Res.* 191(3): 289-300. doi: 10.1007/s00221-008-1523-5. PMID:PMC2651838. **IF = 2.04. Open access.**
- 54 Kardami E, Dang X, **Iacobas DA**, Nickel BE, Jeyaraman M, Srisakuldee W, Makazan J, Tanguy S, Spray DC. (2007). The role of connexins on growth and gene expression. *Prog Biophys Mol Biol.* 94(1-2):245-264. Review. DOI:10.1016/j.pbiomolbio.2007.03.009. PMID:17462721 **IF = 2.27**
- 53 **Iacobas DA**, Iacobas S, Spray DC (2007). Connexin-dependent transcellular transcriptomic networks in mouse brain. *Prog Biophys Mol Biol.* 94(1-2):168-184. Review. DOI:10.1016/j.pbiomolbio.2007.03.015. PMID:17507080. **IF = 2.27**
- 52 **Iacobas DA**, Iacobas S, Werner P, Scemes E, Spray DC (2007). Alteration of transcriptomic networks in adoptive-transfer experimental autoimmune encephalomyelitis. *Front Integr Neurosci.* 1:10. doi:10.3389/neuro.07/010.2007. PMID: PMC2526015. **Open access.**

- 51 Thi MM, **Iacobas DA**, Iacobas S, Spray DC. (2007). Fluid shear stress regulates vascular endothelial growth factor gene in osteoblasts. *Ann N Y Acad Sci.* 1117: 73-81. DOI: 10.1196/annals.1402.020. PMID:17646268. **IF = 4.31**
- 50 Spray DC, **Iacobas DA**. (2007) Organizational principles of the connexin-related brain transcriptome. *J Membr Biol.* 218(1-3):39-47. DOI:10.1007/s00232-007-9049-5. PMID:17657523. **IF = 2.46**
- 49 **Iacobas DA**, Suadicani SO, Iacobas S, Chrisman C, Cohen M, Spray DC, Scemes E. (2007). Gap junction and purinergic P2 receptor proteins as a functional unit: insights from transcriptomics. *J Membr Biol.* 217(1-3):83-91. DOI:10.1007/s00232-007-9039-7. PMID: 17665085. **IF = 2.46**
- 48 **Iacobas DA**, Iacobas S, Spray DC (2007). Connexin43 and the brain transcriptome of the newborn mice. *Genomics.* 89(1), 113-123. DOI:10.1016/j.ygeno.2006.09.007. PMCID:PMC2651831. **IF = 2.28. Open access.**
- 47 **Iacobas DA**, Fan C, Iacobas S, Spray DC, Haddad GG. (2006). Transcriptomic changes in developing kidney exposed to chronic hypoxia. *Biochem Biophys Res Comm.* 349(1), 329-338. DOI:10.1016/j.bbrc.2006.08.056. PMID:16934745. **IF = 2.30**
- 46 **Iacobas DA**, Suadicani SO, Spray DC, Scemes E (2006). A stochastic 2D model of intercellular Ca²⁺ wave spread in glia. *Biophys J.* 90(1): 24-41. PMCID:PMC1367023. DOI: 10.1529/biophysj.105.064378. **IF = 3.97. Open access.**
- 45 **Iacobas DA**, Iacobas S, Urban-Maldonado M, Spray DC (2005). Sensitivity of the brain transcriptome to connexin ablation, *Biochim Biofis Acta.* 1711: 183-196. Review. DOI: 10.1016/j.bbamem.2004.12.002. PMID:15955303. **IF = 4.18**
- 44 Fan C, **Iacobas DA**, Zhou D, Chen Q, Gavrialov O, Haddad GG (2005). Gene expression and phenotypic characterization of mouse heart after chronic constant and intermittent hypoxia. *Physiol Genomics.* 22: 292-307. DOI: 10.1152/physiolgenomics.00217.2004. PMCID:PMC2856928. **IF = 2.37. Open access.**
- 43 **Iacobas DA**, Iacobas S, Li WE, Zoidl G, Dermietzel R, Spray DC. (2005). Genes controlling multiple functional pathways are transcriptionally regulated in connexin43 null mouse heart. *Physiol Genomics* 20: 211-223. DOI:10.1152/physiolgenomics.00229.2003. PMID:5585606. **IF = 2.37**
- 42 Brand-Schieber E, Werner P, **Iacobas DA**, Iacobas S, Beelitz M, Lowery SL, Spray DC, Scemes E. (2005). Connexin43, the major gap junction protein of astrocytes, is down regulated in an animal model of multiple sclerosis. *J Neurosci Res.* 80:798-808. DOI:10.1002/jnr.20474. PMCID:PMC1226319. **IF = 2.59. Open access.**
- 41 **Iacobas DA**, Scemes E, Spray DC. (2004). Gene expression alterations in connexin null mice extend beyond the gap junction. *Neurochem. Intl.*, 45(2-3), 243-250. DOI: 10.1016/j.neuint.2003.12.008. PMID:15145539. **IF = 3.09**
- 40 **Iacobas DA**, Scemes E, Iacobas S, Urban M, Fan C, Haddad GG, Werner P, Iacobas I, Spray DC (2003). Coordinated Transcriptomics - A new tool to identify functional pathways in the cell. *Craiova Medical Journal*, 5(3), 72-82.
- 39 **Iacobas DA**, Urban M, Iacobas S, Scemes E, Spray DC. (2003). Array analysis of gene expression in connexin43 null astrocytes. *Physiol Genomics*, 15(3):177-190. DOI: 10.1152/physiolgenomics.00062.2003. PMCID:PMC2651830. **IF = 2.37. Open access.**
- 38 Mukherjee S, Belbin TJ, Spray DC, **Iacobas DA**, Weiss LM, Kitsis RN, Wittner M, Jelicks L, Scherer P, Ding A, Tanowitz HB. (2003). Microarray study of global changes in gene expression in a murine model of chronic Chagasic cardiomyopathy. *Parasitol Res.* 91(3):187-196. DOI:10.1007/s00436-003-0937-z. PMID: 12910413. **IF = 2.33**
- 37 **Iacobas DA**, Urban M, Iacobas S, Spray DC. (2003) [Transcription regulation and coordination of some cell signaling genes in brain and heart of connexin 43 null mouse]. *Rev Med Chir Soc Med Nat Iasi.*;107(3):534-9. PMID: 14756057
- 36 **Iacobas DA**. (2002) Co-ordinated transcriptomics and the Theory of Genomic Patholog as new tools in drug discovery. *Future drug discovery*, 110-113.
- 35 **Iacobas DA**, Urban M, Massimi A, Iacobas S, Spray DC. (2002) Hits and misses from gene expression ratio measurements in cDNA microarray studies. *J. Biomol. Tech.* 13(3), 143-157. PMCID:PMC2279857. **Open access.**
- 34 **Iacobas DA**, Urban M, Massimi A, Spray DC. (2002). Improved procedure to mine the spotted cDNA arrays. *J Biomol Tech* 13(1), 5-19. PMCID:PMC2279841. **Open access.**
- 33 **Iacobas DA**, Urban M, Iacobas S, Spray DC. (2002). Control and variability of gene expression in mouse brain and in a neuroblastoma cell line. *Rom J Physiol.* 39:71-90. PMID: 15984670

- 32 **Iacobas DA**, Iacobas S. (2001). Noi concepte și indicatori în terapia genetică. *Analele Universității Ovidius. Seria Științe medicale*. 7, 41-47.
- 31 **Iacobas DA**, Urban M, Iacobas S, Spray DC. (2001). Bazele matematice și conceptuale ale analizei pattern-urilor profilelor de exprimare ale genelor individuale. *Analele Universității Ovidius. Seria Științe medicale*. 7, 48-52.
- 30 **Iacobas DA**, Urban M, Iacobas S, Spray DC. (2000). New protocol in spotting microarray technique. *Rom. J. Physiology*, 37(1-4), 69-80. PMID: 12413148
- 29 **Iacobas DA**, Iacobas S, Spray DC. (2000). The "patholog" of the genes expression profile, a new tool in defining, evaluating, and classifying the genetic diseases. *Rom. J. Physiology*, 37(1-4), 59-67. PMID: 12413147.
- 28 **Iacobas DA**. (2000). Ecosystem stability in the Theory of many-population correlation functions. *Ovidius University Annals of Physics*, 1(1). 12-19
- 27 **Iacobas DA**, Urban M, Iacobas S, Spray DC. (2000). The "patholog" of the genes expression profile in stable transfected mouse N2A cells with Cx36 and Cx50. *Ars Medica Tomitana*, VI (23), 13-18.
- 26 **Iacobas DA**. (1996). New ideas in thermodynamic ecology. *Ecology of industrial regions*. 2(1-2), 96-100.
- 25 Iacobas S, **Iacobas DA**. (1996). Principles of ecological reconstruction. *Ecology of industrial regions*. 2(1-2), 101-106.
- 24 Pennec JP, **Iacobas DA**, Iacobas S. (1995). Membrane bioelectrogenesis and ionic channel activity simulation under drug action. *Rom J Physiol*, 32(1-4):3-10.
- 23 **Iacobas DA**. (1995). Ecologia matematică și politica. *Buletin informativ A.O.Ș.* 8, 1-3.
- 22 **Iacobas DA**. (1995). The basis of thermodynamical ecology. *Procese ecologice, bază a dezvoltării societății*. 35-41.
- 21 Iacobas S, **Iacobas DA**. (1995). Actiunea strofantinei G asupra bioelectrogenezei nervului sciatic de *Rana temporaria*, studii "in vivo", *Ars Medica Tomitana*, III, 44-46.
- 20 **Iacobas DA**. (1995). The trophic postulate, *Ars Medica Tomitana*, II, 10-12.
- 19 **Iacobas DA**. (1992). Prelucrarea automată a semnalelor canalelor ionice. *Probleme de microelectronică, informatică și telecomunicații*. 4: 168-170.
- 18 **Iacobas DA**. (1992). Culegerea și înregistrarea semnalelor canalelor ionice ale membranelor. *Probleme de Microelectronică, informatică și telecomunicații*. 4: 163-167.
- 17 **Iacobas DA**, Iacobas S. (1991). Parametrii de inhibare ai bioelectrogenezei de catre ouabaina. *Analele Universitatii "Ovidius" Constanta. Seria Stiinte medicale*. II, 143-151.
- 16 **Iacobas DA**, B.Amuzescu. (1991). Îmbunătățiri aduse tehnologiei micropipetelor de patch-clamp. *Analele Universitatii "Ovidius" Constanta. Seria Stiinte medicale*. II,, 30-33.
- 15 **Iacobas DA**. (1991). Descrierea structurii apei vicinale prin dubla dezvoltare în funcții de corelație a distribuției spațiale. *Analele Universitatii "Ovidius" Constanta. Seria Stiinte medicale*. II, 54-57.
- 14 **Iacobas DA**, Iacobas S. (1991). Formularea matematica a unei probleme medicale. *Analele Universitatii "Ovidius" Constanta. Seria Stiinte medicale*. II, 152-160.
- 13 **Iacobas DA**. (1991). Prelucrarea matematică a înregistrărilor unicanal din membrane și deducerea unor structuri topologice ce ar putea genera curenții culeși. *Analele Universitatii "Ovidius" Constanta. Seria Stiinte medicale*. II, 23-27.
- 12 **Iacobas DA**, Stan V, Iacobas S. (1989). Computer simulation of some hydrated ions configurations, *Timisoara medicala*, Supplement Tom XXXIV, 73 - 78.
- 11 Iacobas S, **Iacobas DA**. (1988). A microcomputer based method in mathematical processing of single-channel data, *Seminars in Biophysics*, 5, 101-108.
- 10 Iacobas S, **Iacobas DA**. (1988). Ecological significant functions defined on a pre-Hilbert space of normal and "pathological" states of an ecosystem. *Ziridava XVII*, 44-45.
- 9 **Iacobas DA**, Iacobas S. (1988). A BASIC program for computer simulation of ecosystem behaviour. *Ziridava XVII*, 46-48.
- 8 Iacobas S, **Iacobas DA**. (1987). A mathematical transcription of a current problem in physiology. *Physiologie* 24(4):263-5. PMID: 3126510
- 7 **Iacobas DA**, Iacobas S. (1987). BASIC program in monitoring and analyzing of a living system. *Physiologie* 24(4):267-270. PMID: 3126511
- 6 **Iacobas DA**. (1987). Computer simulation of single channel events. *Timisoara Medicala. Supplement Tom XXXII*. 53-55.

- 5 **Iacobas DA.** (1987). A method in computer processing of single channel data. *Timisoara Medical. Supplement Tom XXXII.* 59-61.
- 4 **Iacobas DA.** (1985). Theoretical model and simulation method in transepithelial transport. *Biophysics of biological membranes.* 49-55.
- 3 **Iacobas S, Iacobas DA.** (1983). Functions with medical meaning defined on a pre- Hilbert space for normal and pathological states of human organism. *Actual Problems in Biophysics,* 205-208.
- 2 **Iacobas DA.** (1983). Single-particle method to derive ionic transport equations in biological membrane close proximity. *Actual Problems in Biophysics,* 72-75.
- 1 Vasilescu V, **Iacobas DA.** (1983). Investigations concerning ATP-ouabain antagonism in bioelectrogenesis. Possible molecular explanation. *Actual Problems in Biophysics,* 68-71.

E. CONFERENCE PROCEEDINGS

- 14 **Iacobas DA,** Scemes E, Iacobas S, Urban M, Fan C, Haddad GG, Werner P, Iacobas I, Spray DC (2003). Coordinated Transcriptomics - A new tool to identify functional pathways in the cell. *Proceedings of the 1st MEDINF International Conference on Medical Informatics and Engineering,* Craiova, 72-82
- 13 **Iacobas DA,** Wilson D. (2000). Survey of the public awareness campaign on domestic violence. *Proceedings to Medinf'2000.* www.umfiasi.ro/medinf
- 12 Spray DC, **Iacobas DA,** Urban M. (2000). Theoretical and practical optimization of microarray technique. *Proceedings to Medinf'2000.* www.umfiasi.ro/medinf
- 11 **Iacobas DA.** (2000). Cancer classification by analyzing the patterns in the pre-Hilbert space of gene expression. *Proceedings to Medinf'2000.* www.umfiasi.ro/medinf
- 10 **Iacobas DA.** (1999). Statistical study on woman's health in the city of Constanța. *Proceedings of the American - Romanian workshop "Healthy Communities".* Mamaia. 14-15.
- 9 Steiner RWP, **Iacobas DA,** Verman D. (1999). The Project "Healthy Communities". *Proceedings to Medinf'99.* <http://atlas.ici.ro/ehto/MEDINF99/papers/Iacobas/Iacobas1.htm>
- 8 **Iacobas DA.** (1999) Stability and evolution in the Theory of many-population correlation functions. <http://atlas.ici.ro/ehto/MEDINF99/papers/Iacobas/Iacobas1.htm>
- 7 **Iacobas DA** (1998). Modelling of life origin and evolution. *Proceedings to MEDINF'98.* 204-212.
- 6 **Iacobas DA** (1998). Ecosystem modelling by network of virtual biocoenosis. *Proceedings to MEDINF'98.* 320-331.
- 5 **Iacobas DA,** Iacobas S. (1998). Drug efficiency estimate with the Theory of Pathologic. *Proceedings to MEDINF'98.* 80-85.
- 4 Georgescu G, Mihalas G, Spiricu T, Tigan S, **Iacobas DA.** (1998). The current necessities of medical informatics education. *Proceedings to MEDINF'98.* 363-364.
- 3 **Iacobas DA.** (1990). A cooperative model in the steady-state bioelectrogenesis. *Proceedings to The 8th Balkan Biochemical and Biophysical Days.* Cluj-Napoca. 256-257.
- 2 **Iacobas DA,** Stan V, Iacobas S. (1990). Computer simulation of some hydrated ion configurations in the presence of an external electric field. *Proceedings to The 8th Balkan Biochemical and Biophysical Days.* Cluj-Napoca. 263-264.
- 1 Spătaru C, **Iacobas DA.** (1987). The correlation function approach in describing the structure of water in biological systems. *Proc to The 4th Intl Conf "Water and ions in biological systems".* Bucharest. 135-136.

F. USA NATIONAL LIBRARY OF MEDICINE <https://www.ncbi.nlm.nih.gov/search/all/?term=IACOBAS>

a. Genomic Datasets

- 82 Gene Commanding Height (GCH) hierarchy in the cancer nucleus and cancer-free resection margins from a surgically removed prostatic adenocarcinoma of a 65y old black man. [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE133906>
- 81 Gene Commanding Height (GCH) hierarchy in the cancer nucleus and cancer-free resection margins from a surgically removed prostatic adenocarcinoma of a 47y old white man. [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE133891>

80 Transcriptional profiling of the rat retina after optic nerve crush uncovers sustained activation of the complement cascade and Delta-Notch signaling pathways, [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE133563>

79 Recovery of the synaptic transmission genomic fabrics in the hypothalamic paraventricular nucleus of a rat model of autism treated with PMX53, [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE128090>

78 Remodeling of synaptic transmission genomic fabrics in the hypothalamic paraventricular nucleus of a rat model of autism. [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE128091>

77 Recovery of the synaptic transmission genomic fabrics in the hypothalamic paraventricular nucleus of a rat model of autism treated with ACTH, [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE124615>

76 Prenatal betamethasone remodels the genomic fabrics of the synaptic transmission in the rat hypothalamic paraventricular nuclei, [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE124613>

75 Sex differences in the synaptic transmission genomic fabrics of the rat hypothalamic paraventricular node [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123721>

74 Overexpression of miR-155 alters the hierarchy of gene master regulators in the adenocarcinomic human alveolar basal epithelial cell line A549 [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE116575>

73 Hierarchical gene master regulators of adenocarcinomic human alveolar basal epithelial cells A549 [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE116361>

72 Genotoxicity of nitrosamines [*Gallus gallus*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE110906>

71 Gene expression in chicken embryo liver [*Gallus gallus*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE110904>

70 Proximity of oligodendrocytes remodels astrocytes' transcriptome [*Mus musculus*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE109035>

69 Estrogen protects neurotransmission transcriptome during status epilepticus [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE107725>

68 Validation of the Personalized Gene Therapy by stably transfection of UBALD1 in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97427>

67 Validation of the Personalized Gene Therapy by stably transfection of NEMP1 (TMEM194A) in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97031>

66 Validation of the Personalized Gene Therapy by stably transfection of PANK2 in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97030>

65 Validation of the Personalized Gene Therapy by stably transfection of DDX19B in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97028>

64 Hierarchical gene master regulators of papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97002>

63 Hierarchical gene master regulators of one case of papillary thyroid cancer [*Homo sapiens*] <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE97001>

62 Gene-regulatory networks activated by pattern-specific generation of action potentials in dorsal root ganglia neurons [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE84872>

61 Remodeling of synaptic transmission genomic fabrics in the hypothalamic arcuate nucleus of a rat female model of infantile spasms [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE84585>

60 Remodeling of synaptic transmission genomic fabrics in a model of infantile spasms [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE81061>

59 Transcriptomic effects of prenatal exposure to corticosteroids on synaptic transmission [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE76694>

58 Genomic alterations during the progress of pulmonary hypertension,

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72707>
57 Haploinsufficiency in bromodomain containing 2 (Brd2) gene remodels synaptic transmission in female mouse striatum in a sex-specific manner [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72563>
56 Haploinsufficiency in bromodomain containing 2 (Brd2) gene remodels synaptic transmission in male mouse striatum [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72562>
55 Transcriptomic effects of low salt diet on the mouse left ventricle [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72561>
54 Transcriptomic effects of Capridine on the acute promyelocytic leukemia HL-60 cell line [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72415>
53 Remodeling of DNA transcription genomic fabric in Capridine-treated LNCaP human prostate cancer cell line [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72414>
52 Remodeling of major genomic fabrics and their interplay in Capridine-treated DU145 classic human prostate cancer [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72333>
51 Remodeling of major genomic fabrics and their interplay in metastatic clear cell renal carcinoma [*Homo sapiens*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE72304>
50 PRR7 is a novel NMDA-dependent inhibitor of c-Jun ubiquitination in neurons [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE62686>
49 EB-mediated NPY expression and release. [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60013>
48 Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse ovary and pituitary gland [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48170>
47 Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse pituitary gland [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48169>
46 Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse ovary [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48167>
45 Left-right transcriptomic differences in adult male mouse heart ventricles [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45348>
44 Left-right transcriptomic differences in adult male mouse heart atria [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45339>
43 Prenatal exposure to corticosteroids: hypothalamic changes relevant for postnatal behavioral impairments [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44858>
42 Postnatal glucocorticoids suppress myelination in a dose-dependent manner by genomic mechanisms [*Oryctolagus cuniculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44610>
41 Transcriptome profiling of hippocampal CA1 after early life seizure-induced preconditioning may elucidate new genetic therapies for epilepsy [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44031>
40 Analyzing the cytoskeletal transcriptome: sex differences in rat hypothalamus [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE38450>
39 The connexin43-dependent transcriptome during brain development: importance of genetic background [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE37239>
38 Functional and Transcriptomic Recovery of Infarcted Mouse Myocardium Treated with Bone Marrow Mononuclear Cells [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE29769>
37 AECOM Operon 3.0 34k Mouse Array. <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL14005>
36 Post-ischemic heart failure model. <https://www.ncbi.nlm.nih.gov/sites/GDSbrowser?acc=GDS3655>
35 Therapy with bone marrow cells recovers gene expression alterations in hearts of mice with chronic chagasic cardiomyopathy [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE24088>
34 Alterations in the Neurological Transcriptome by Malarial Infection in Mice [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE24086>
33 Astrocyte proximity modulates the myelination gene fabric of oligodendrocyte [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE18726>
32 Cardiac gene expression and systemic cytokine profile are complementary in a murine model of post

ischemic heart failure [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE18703>

31 Transcriptomic alterations in a myoblast cell line infected with four distinct strains of *Trypanosoma cruzi* [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE18175>

30 Sex-dependent gene regulatory networks of the heart rhythm. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE17324>

29 Oli-neu cells cocultured with cortical astrocytes in insert system_rep4, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465182>

28 Oli-neu cells cocultured with cortical astrocytes in insert system_rep3, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465181>

27 Oli-neu cells cocultured with cortical astrocytes in insert system_rep2, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465180>

26 Oli-neu cells cocultured with cortical astrocytes in insert system_rep1, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465179>

25 Oli-neu cells, differentiated_rep4, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465178>

24 Oli-neu cells, differentiated_rep3. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465177>

23 Oli-neu cells, differentiated_rep2. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465176>

22 Oli-neu cells, differentiated_rep1. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM465175>

21 Gene expression changes associated with myocarditis and fibrosis in hearts of mice with chronic chagasic cardiomyopathy [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE17363>

20 Transcriptomic alterations in *Trypanosoma cruzi*-infected cardiac myocytes, [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE17330>

19 Duke Operon Rat 27k V3.0 printed oligonucleotide array. [*Rattus norvegicus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL9207>

18 Duke Mouse 36K oligonucleotide array Operon V4.0. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL8928>

17 GPL8938: Duke Mouse 30k Oligonucleotide Array Operon V3.0.1. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL8938>

16 Effect of microgravity on brain gene expression in mice [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE12312>

15 “Compensatory” transcriptional mechanisms: Comparison of transcriptomes of Cx43 null and knockdown astrocytes [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE8168>

14 Fluid Shear Stress Up-regulates Vascular Endothelial Growth Factor Gene. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE8117>

13 AECOM 32K mouse oligonucleotide array, MO2 printing series. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL5371>

12 Gap junction and purinergic P2 receptor proteins as a functional unit: insights from transcriptomics. [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE8105>

11 Connexin-dependent transcellular transcriptomic networks in mouse brain [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE6355>

10 Chronic hypoxia alters the level, maturation and control of gene expression in mouse kidney [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE3289>

9 Gene expression and phenotypic characterization of mouse heart after chronic constant or intermittent hypoxia [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE2271>

8 Transcriptomic alterations induced by AT-EAE in mouse spinal cord [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE2446>

7 Connexin43 null vs wildtype neonatal mouse heart [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1961>

6 CX43 heterozygous, Cx43 null and Cx32 null vs wildtype neonatal mouse brain [*Mus musculus*], <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1954>

5 CX43 KO vs WT cortical astrocytes [*Mus musculus*],
<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE580>

b. Microarray Platforms

4 <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL2828>
3 <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL1862>
2 <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL1698>
1 <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL369>

c. Bioprojects:

7 **PRJNA479438:** Overexpression of miR-155 alters the hierarchy of gene master regulators in the adenocarcinomic human alveolar basal epithelial cell line A549. <https://www.ncbi.nlm.nih.gov/bioproject/479438>
6 **PRJNA130217:** Alterations in the Brain Transcriptome in Plasmodium Berghei ANKA Infected Mice. Organism: *Mus musculus*. <https://www.ncbi.nlm.nih.gov/bioproject/130217>
5 **PRJNA119085:** Gene expression changes associated with myocarditis and fibrosis in hearts of mice with chronic chagasic cardiomyopathy. <https://www.ncbi.nlm.nih.gov/bioproject/119085>
4 **PRJNA119013:** Transcriptomic alterations in Trypanosoma cruzi-infected cardiac myocytes. Organism: *Mus musculus*. <https://www.ncbi.nlm.nih.gov/bioproject/119013>
3 **PRJNA113619:** Effect of microgravity on brain gene expression in mice. Organism: *Mus musculus*. <https://www.ncbi.nlm.nih.gov/bioproject/113619>
2 **PRJNA100989:** Fluid Shear Stress Up-regulates Vascular Endothelial Growth Factor Gene. Organism: *Mus musculus*. <https://www.ncbi.nlm.nih.gov/bioproject/100989>
1 **PRJNA100967:** Gap junction and purinergic P2 receptor proteins as a functional unit: insights from transcriptomics. Organism: *Mus musculus*. <https://www.ncbi.nlm.nih.gov/bioproject/100967>

d. Nucleotides:

7 https://www.ncbi.nlm.nih.gov/nuccore/NM_001375594.1
6 https://www.ncbi.nlm.nih.gov/nuccore/NM_001174102.3
5 https://www.ncbi.nlm.nih.gov/nuccore/NM_001174101.2
4 https://www.ncbi.nlm.nih.gov/nuccore/NM_030567.5
3 <https://www.ncbi.nlm.nih.gov/nuccore/KM576780.1>
2 https://www.ncbi.nlm.nih.gov/nuccore/NM_001375593.1
1 https://www.ncbi.nlm.nih.gov/nuccore/NM_001109116.1

e. Proteins:

24 https://www.ncbi.nlm.nih.gov/protein/NP_001167573.1
23 https://www.ncbi.nlm.nih.gov/protein/NP_001362522.1
22 https://www.ncbi.nlm.nih.gov/protein/NP_001362523.1
21 https://www.ncbi.nlm.nih.gov/protein/NP_001167572.1
20 https://www.ncbi.nlm.nih.gov/protein/NP_085044.2
19 https://www.ncbi.nlm.nih.gov/protein/NP_001102586.1
18 <https://www.ncbi.nlm.nih.gov/protein/D3Z902.2>
17 <https://www.ncbi.nlm.nih.gov/protein/P0C6T3.1>
16 <https://www.ncbi.nlm.nih.gov/protein/P31016.1>
15 <https://www.ncbi.nlm.nih.gov/protein/P35439.1>
14 <https://www.ncbi.nlm.nih.gov/protein/Q00960.1>
13 <https://www.ncbi.nlm.nih.gov/protein/Q05586.1>
12 <https://www.ncbi.nlm.nih.gov/protein/Q13224.3>

- 11 <https://www.ncbi.nlm.nih.gov/protein/Q3V0I2.1>
- 10 <https://www.ncbi.nlm.nih.gov/protein/Q8TB68.1>
- 9 <https://www.ncbi.nlm.nih.gov/protein/Q969H0.1>
- 8 <https://www.ncbi.nlm.nih.gov/protein/P05412.2>
- 7 <https://www.ncbi.nlm.nih.gov/protein/P05627.3>
- 6 <https://www.ncbi.nlm.nih.gov/protein/P17325.1>
- 5 <https://www.ncbi.nlm.nih.gov/protein/AIZ73048.1>
- 4 <https://www.ncbi.nlm.nih.gov/protein/AIZ73049.1>
- 3 <https://www.ncbi.nlm.nih.gov/protein/AIZ73050.1>
- 2 <https://www.ncbi.nlm.nih.gov/protein/AIZ73051.1>
- 1 <https://www.ncbi.nlm.nih.gov/protein/AIZ73052.1>

f. ONLINE COMMUNICATING SCIENTIFIC RESULTS

- 8 **Iacobas DA.** (2019 **video conference**) "The Gene Master Regulators of tissues and cells collected from patients with blood, lung, kidney, prostate or thyroid cancer", <http://www.stop-cancer-romania.ro/prezentari/prezentari-2019/>
- 7 **Iacobas DA.** (2018 **video conference**) "Gene Master Regulators in Cancer Gene Therapy", <http://www.stop-cancer-romania.ro/prezentari/prezentari-2018/>
- 6 Iacobas S, **Iacobas DA** (2011) Remodeling and crosstalk of functional genomic fabrics in multiple sclerosis. Conference: Great Lakes Bioinformatics (GLBIO) Conference 2011, Volume: 2, https://www.researchgate.net/publication/266156076_Remodeling_and_crosstalk_of_functional_genomic_fabrics_in_multiple_sclerosis
- 5 **Iacobas DA**, Iacobas S (2011) Prominent Gene Analysis in refining, quantifying and deconvoluting functional pathways. Conference: Great Lakes Bioinformatics (GLBIO) Conference 2011, Volume: 2, https://www.researchgate.net/publication/266154228_Prominent_gene_analysis_in_refining_quantifying_and_deconvoluting_the_functional_pathways
- 4 Iacobas S, Thomas NM, Spray DC, **Iacobas DA.** (2010). Connexin-dependent regulatory networks in controlling the myelination gene fabric in mouse brain. 1st Intl Online and Onsite Ann Conf of Models of Human Diseases. http://www.vetbiotech.com/resources.php?id=29&p=1&site_cat=26
- 3 **Iacobas DA**, Spray DC. (2008). Connexin dependent transcriptomic networks. *Scirus Topic Page*. http://www.scitopics.com/Connexin_dependent_transcriptomic_networks.html
- 2 Knudson K, Brooks AI, Griffin C, Iacobas DA, Johnson K, Khitrov G, Levy S, Massimi A, Nowak N, Viale A, Grills G. (2003). A current profile of microarray laboratories: 2002-2003 Microarray Research Group Survey of laboratories using microarray technologies. http://www.abrf.org/ResearchGroups/Microarray/EPosters/MARG_Survey_Poster2003.pdf
- 1 Knudson KL, Griffin C, Brooks A, **Iacobas DA**, Johnson K, Khitrov G, Lilley K, Massimi A, Viale A, Zhang W, Bao Y, Grills G. (2002). Factors contributing to variability in DNA microarray results: the ABRF Microarray Research Group 2002 Study. *J Biomol Tech.* Posters on line http://www.abrf.org/ResearchGroups/Microarray/EPosters/MARG_2002_Poster.pdf

+ Numerous national and local TV radio talk shows, including 1 h weekly National TV broadcasting of *Universe, Matter, Life*” in 1987

II. OTHER PUBLICATIONS

A. SOCIOLOGY AND POLITICS

1 **Iacobas DA.** (1995) Social pathology and therapy - A systems approach on social and political transition in post-communist Romania (in Romanian), Bucharest: Bucura Mond Ltd. ISBN 973-96889-5-0 (*1st European PHARE Prize for "Young scientists and politicians in the civil society"*).

B. PHILOSOPHICAL NOVELS

2 **Iacobas DA.** (2000). "Tucapai". (Romanian: Tucapai) A philosophical novel on a possible quantum theory of cognition) Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-9-9.

1 **Iacobas DA.** (1998) "Noul Tetractys". (Romanian: The New Tetractys) A philosophical novel on a possible quantum refinement of Darwin's Theory of Evolution). Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-3-X.

C. THRILLERS

1 **Iacobas DA.** (1998) "Deseara, nu veni la gara! - Jurnalul lui Argon" (Romanian: Don't come at station tonight! Argon's diary, Thriller) Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-7-2.

D. DRAMAS/SCRIPTS/MUSICALS:

4 Iacobas DA (2004) "Urzici, ciuperci și caltabosi". (Romanian: Stinging nettles, mushrooms and blood puddings) Lumea libera - A Worldwide Romanian Weekly, New York, NY

3 Iacobas D.A. (2000) "Deseara, nu veni la gară!" (Romanian: Don't come at station tonight. Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-2-1 - Student theater.

2 Iacobas DA (1982) "Yellow submarine in water with ions", student musical.

1 Iacobas D.A. (1980) "Un Faust atomic". (Romanian: An Atomic Faust) Constanta: Dobrogea Noua. Musical.

E. MEDIA

- **Iacobas DA.** (1993) Dumnezeu e bun si iarta (Romanian: God is good and forgives – Essay about social problems in Romania during the transition from communist dictatorship to democracy), Telegraf.

- numerous talk shows on various political, social and cultural issues at (Romanian) national and local TV and radio stations (1990-2000)

- numerous articles and poems in (Romanian) national and local newspapers and magazines

INVITED STEM LECTURES AND SEMINARS

A. International

"The Gene Master Regulators of tissues and cells collected from patients with blood, lung, kidney, prostate and thyroid cancer", 3rd Symposium of Translational Oncology "STOP Cancer Romania", Bucharest, **Romania**, 05/10-12/2019. Videoconference: <https://www.stop-cancer-romania.ro/prezentari/prezentari-2019/>

"The Gene Master Regulators Approach Provides the Best Targets for the Personalized Cancer Gene Therapy", International Conference on Disease Biomarkers and Precision Medicine (DBPM-2018), 10/22-24/2018 in Houston, TX, **U.S.A.**

"Gene Master Regulators not Biomarkers should be tested for personalized cancer medicine", 4th World Congress on Cancer Research & Therapy, Rome (**Italy**), 08/13-15/2018.

"Gene Master Regulators and the Personalized Timely Cancer Gene Therapy", 3rd International Conference on "Cancer Research and Targeted Therapy", London, **UK**, 08/06-08/2018.

"Gene Master Regulators in Cancer Gene Therapy", 2nd Symposium of Translational Oncology STOP Cancer, Bucharest, **Romania**, 04/13-15/2018. Videoconference: <https://www.stop-cancer-romania.ro/prezentari/prezentari-2018/>

"Prenatal exposure to corticosteroids: hypothalamic changes relevant for postnatal impairments, 7th International Meeting Steroids and Nervous System, 02/16-20/2013, Torino, **Italy**.

"Connexins as nodes in heart rhythm networks", 7/13/2011. Gap Junction Conference, Ghent, **Belgium**.

"New analytical tools to characterize remodeling of the transcriptomic networks in rodent models for human immunological diseases", 10/9/2009, MUGEN, Athens, **Greece**.

"Coordinated transcriptomics – a new tool to identify functional pathways in the cell", 1st International Conference on Medical informatics and Engineering, Craiova, **Romania**, 10/10/2003.

"Improved procedures for cDNA array mining", Tutorial International Symposium "Biomolecular technologies: Tools for discovery in proteomics and genomics", Austin, TX, **U.S.A.** 03/9-12/2002.

"Theory of potential life. A new hypothesis on life origin and evolution". 4^o Encuentro Latinoamericano de Ecologia Matematica. University Nacional de Cuyo, Mendoza, **Argentina**. 08/27/1998

"Evaluation and validation of the health care system by the Theory of pathologic". 20th International Congress on Medical Physics, Biophysics and Biomaterials, Stara Lesna, **Slovak R**, 1997.

"Dracula's postulates and biocoenosis stability". 4^o Encuentro Latino Americano de Ecologia Matematica. Valparaiso, **Chile**, 08/23/1998.

"Ecosystem stability in the Theory of Many Population Correlations", 8^o Congreso Internacional de Biomatemática, Panama, **Panama City**, 08/28/1997

"Thermodynamics of biomass storage, exchange and conversion in agrosystems". 2nd International Conference on Sustainable Development: System Analysis in Ecology. Sevastopol, **Ukraine**, 1996.

"The stability of ecosystems in the Theory of many-population correlation functions. Spruce III International Conference, Statistics in Public Resources, Utilities and care of the Environment. Merida, **Mexico**, 1996.

"Thermodynamics of biomass storage, exchange and conversion in agrosystems. International Workshop on Biomass Production and Utilization. Trieste, **Italy**, 1996

"The Theory of many-population correlation functions. 1st Practical International Conference on Sustainable development: environmental pollution and ecological safety. Dnepropetrovsk **Ukraine**, 1995.

"New ideas in thermodynamical ecology. 1st Practical International Conference on Sustainable development: environmental pollution and ecological safety. Dnepropetrovsk **Ukraine**, 1995.

"Problems in the dimensional analysis of ecosystems. 3^o Encuentro Latinoamericano de Ecologia Matematica, Lujan - Buenos Aires, **Argentina**, 1994.

"Standard versus normal mathematical approach of ecosystems". 3^o Encuentro Latinoamericano de Ecologia Matematica, Lujan - Buenos Aires, **Argentina**, 1994.

"Computer simulation of membrane single-channel currents". International Workshop "What is computer simulation of biological systems good for?", Liblice, **Czechoslovakia**, 1991

"A pre-Hilbert space for physiological states and some functions which could be used to simulate the

human body behavior during the medical treatment”, International Workshop "What is computer simulation of biological systems good for?", Liblice, **Czechoslovakia**, 1991.

B. National

“Transcellular transcriptomic networks in remodeling the myelination genomic fabric”, C10 Colloquium “Intercellular signaling and myelination”, 3/7/2012 43rd Annual Meeting of the American Society for Neurochemistry (ASN), Baltimore, **MD**.

“Ankyrins and the genomic sex dichotomy of the heart rhythm”, 5/25/2011. American Heart Association Ann Meeting, Orlando, FL.

"Astrocyte and oligodendrocyte - love at first sight with myelination consequences", 09/22/2010 Institute of Biochemistry of the Romanian Academy, Bucharest, **Romania**, Host: Dr Stefania Petrescu, Director.

"Connexin-dependent networks and the heart rhythm determinants", 10/05/2008, Canada Research Chair in Gap Junctions and Disease, University of Western Ontario, London (ON) **Canada**. Host D. Laird, Chair.

“Coordinated transcriptomics-principles and applications”, AMDEC meeting of Microarray Core Directors, Cold Spring Harbour Laboratory, Woodbury, **NY**. 02/24/2006. Host: Dr S. Welle, Director AMDeC Steering Committee.

“The Theory of Pathologic to evaluate and optimize the medical activity. Segunda Jornada Nacional en Biomatemática. Universidad del Quindío. Armenia (**Colombia**).

“Stability and evolution in the Theory of Many-Population Correlation Functions”. Segunda Jornada Nacional en Biomatemática. Universidad del Quindío. Armenia (**Colombia**).

C. Local (Abroad)

“Genomics from a biophysicist’s perspective”, University of Bucharest, Dept. Anatomy, Animal Physiology and Biophysics, Bucharest, **Romania**, 10/18/2019, Host: Dr. D Mihailescu, Chair

“ACTH and PMX53 recover synaptic transcriptome alterations in a male rat model of infantile spasms”, Champalimaud Centre for the Unknown, Lisbon, **Portugal**, 10/13/2017, Host: Dr. Z Mainen, Director Neuroscience Program

“Sex, brain and synapses”, Federal Universidade do Rio de Janeiro, **Brazil**. 10/01/2015. Host: Dr. R. Linden.

“Genomic fabric remodeling in Chagas disease and treatment”, Chagas Filho Instituto de Biofísica, Rio de Janeiro, **Brazil**. 9/28/2015. Host: Dr. AC de Carvalho.

“The Theory of Genomic Pathologic”, Dept. Mathematics, Universitat Jaume I, Castellon, **Spain**. 06/08/2001. (Host: Prof. J.L. Uso, Chairman)

“Theory of Potential Life: a new hypothesis on life origin and evolution”. Universidad Central de Venezuela. Caracas, **Venezuela**. 20/05/1999. (Host: Prof. J.A. Leon, Chairman)

“Aplicaciones Clínicas de la Teoría del Patológico”. Facultad de Medicina, Universidad Tecnológica de Pereira. Pereira, **Colombia**. 13/05/1999. (Hosted: Prof. H. Moreno-Rojas, Dean).

“Bioelectrogenesis of the lumbricus terrestris ganglia chain”, Dipartimento di Fisiologia e Biophysica, Università di Trieste, **Italy**. 10/10/1998. Host: Dr F Ruzzier, Chair.

“Drug efficiency Estimate with the Theory of Pathologic”. Instituto de Farmacología y Bioquímica, Universidad de Buenos Aires, **Argentina**. 08/14/1998 (Host: Prof. M. Rubio, viceDean)

“Problemas teóricos y experimentales en los estudios electrofisiológicos”. Facultad de Medicina. Universidad Nacional de Cuyo, Mendoza, **Argentina**. 08/25/1998. (Hosted: Prof. F. Saravi, Chairman)

“The Theory of potential life”, University of Panama, Panama City, **Panama**. 08/25/1997. Host: Prof. R Howe, Chair Mathematics

“The Theory of Pathologic”, University of Patras, **Greece**. 08/15/1996. Host: G Lefterakis, Dean

“Modulation of the ionic channel activity by gamma lactones”, Department of Experimental Biophysics, Humboldt University, **Germany**, 06/21/1996. Host: Dr. R Glaser, Chairman.

“The stochasticity of the membrane ionic channel”, Department of Biophysics, Eötvös Loránd University, Budapest, **Hungary**, 07/22/1994, Host Dr. S György, Chair.

“A quantum model of the Cl⁻ ionic channel in axolemma”, Université Bretagne Occidentale, Brest, **France**.

06/25/1992. Host: Dr. JP Pennec, Chair of the Department Animal Physiologie et Biophysique.

D. Local (USA)

“Towards a personalized cancer medicine”, Philips Health Care Research, **BioInc Valhalla**, NY 2/3/2017, Host: Dr. N. Dimitrova

“Alteration of the 3D calcium waves in the diabetic smooth muscle”, Dept. Pathology, **New York Medical College**, Valhalla, NY. 03/05/2014, Host. Dr. TJ Fallon, Chair.

“Tumorigenesis: a genomic fabric interplay going bad?”, **State University of New York at Stony Brook**, NY Dept. Pathology. 08/09/2012. Host: Dr. Y Hannun, Director of Stony Brook Cancer center, Vice Dean for Cancer Medicine.

“Sex, stress and the brain: genomic fabric paradigm above functional pathway”, **Rockefeller University**, Harold and Margaret Milliken Hatch Laboratory of Neuroendocrinology, host Bruce McEwen, Head Laboratory, 06/12/2012.

“Sex dichotomy and remodeling of neurogenomic fabrics”, **State University of New York at Stony Brook**, NY Dept. Biophysics. 02/15/2012. Host: Dr. P. Brink, Chairman Dept Biophysics.

“Differential topological analysis of functional genomic fabrics”, **New York University, Dept Biomedical Engineering**, CCNY, CUNY, 09/07/2011. Host: Dr. J Tarbell, Chair

“Remodeling of Ca²⁺-signaling genomic fabric in stimulated DRG neurons”; 07/06/2011, **NIH-NICHD**, Bethesda, Host: DR Douglas Fields, Chief Nervous System Development & Plasticity Section

“Intercellular signaling and myelination”, **New York University Langone Medical Center**, 5/11/2011. Host: Dr James L Salzer, Co-Director Center of Excellence for Multiple Sclerosis.

“Topology and dynamics of the myelination genomic fabric”, 01/08/2010, **NIH-NICHD**, Bethesda, Host: DR Douglas Fields, Chief Nervous System Development & Plasticity Section

"Physics of the transcriptome", 2005, Dept Physics, **New Mexico State University at Las Cruces**, NM. Host Dr. G Kyle, Chair Dept. Physics.

“A 2D stochastic model of calcium signaling in hypoxic brain”, 11/17/2005, **Yale University School of Medicine**, host: Dr. N. Siegel, Chair Division of Pediatric Nephrology, Department of Pediatrics.

“Mining the cDNA array through the Theory of genomic patholog”, **Rockefeller University** Microarray Facility, Manhattan, NY, 10/12/2001. (Host Dr. G Khitrov, Director).

“Mathematical mining of the microarray data through the Theory of Pathologic”. **Rosswell Park Cancer Institute, Buffalo**, NY. 21/08/2000. (Host: Dr. SP Hui, Chairman)

E. PVAMU

“Experimental and computational problems in transcriptomic studies. The Genomic Fabric paradigm”, PVAMU CRI-RaISE Seminar series, 02/19/2020. Host: Dr. P Saganti -Director

“Brain, Sex, Synapses and Neurological Diseases – A Transcriptomic Story”, Center for Computational Systems Biology Seminar series, 10/09/2019

“Validation of the Gene Master Regulators Theory for Cancer Gene Therapy”, Center for Computational Systems Biology Seminar series, 02/13/2019

“A 3D pseudostochastic model of intercellular calcium signaling alteration in the diabetic smooth muscle”, Dept of Mathematics, College of Arts and Sciences, Prairie View A&M University, Prairie View 09/07/2018. Host Dr. N Hritonenko

“Alteration of Ca²⁺-wave in the diabetic smooth muscle”, Dept. Electrical and Computer Engineering, PVAMU RGP College of Engineering, Host Dr. P Obiomon, 02/23/2018

"The Gene Master Regulators Approach of the Personalized Cancer Gene Therapy", PVAMU College of Engineering, Host Dr. L Qian, 08/24/2017.

PUBLIC CONFERENCES ON SOCIAL AND POLITICAL PROBLEMS

“Healthy communities for empowering women’s health”. 12th Conference “Environmental epidemiology in Pan America and the World: Building connections.” Buffalo, NY, **USA**, 08/21/2000.

“Organizing a public awareness campaign on domestic violence”. *American Romanian workshop on domestic violence*. Mamaia, **Romania**, 04/28/2000.

“Survey on domestic violence in Constanța”. *American Romanian workshop on domestic violence*. Mamaia, **Romania**, 04/28/2000.

“Experiencia de un científico rumano en Colombia”. Velada cultural, organizada de Embajada de Colombia, Ministerio Rumano de las Relaciones Exteriores, y Casa de la America Latina. Bucharest, **Romania**, 08/22/1999.

“Survey on women health in Constanta District”, University of Louisville, Louisville, KY, **USA**, 05/12/1999. Host: Prof. Prasaad Steiner.

“Ecology and politics. A mathematical approach”, 8^o Congreso Internacional de Biomatemática, Panama, Panama City, **Panama**, 08/29/1997

“For a U.N. Ministry of Peace. The Summer Festival of Peace University, Berlin, **Germany**, 1995

“The problem of ecological reconstruction”. The Summer Festival of Peace University, Berlin, **Germany**, 1995.

“Ecological reconstruction between science and politics”. Spruce III International Conference, Statistics in Public Resources, Utilities and care of the Environment. Merida, **Mexico**, 1996

+ numerous talk shows and debates on social and political problems at (Romanian) national and local media (TV, radio, magazines)

COLLABORATORS AT EXPERIMENTS, GRANTS, PUBLICATIONS AND IN ORGANIZING SCHOOLS AND MEETINGS

Owing to expertise in systems biology, biophysics and biomathematics, I succeeded to ensemble a worldwide network of outstanding scientists and clinicians with whom I have collaborated at research grants (experiments and publications) and in organizing international schools and conferences.

I. U.S.A.

CA: D Bota, R Bota, Q Chen, C Fan, O Gavrialov, C Griffin, GG Haddad, L Marcu, D Zhou

CT: T Chachua

FL: RS Dronca

GA: D Brann

IA: K Knudson

KY: RWP Steiner, D Wilson

MA: GD Duda

MD: JE Cohen, RD Fields, PR Lee

ME: K Jhonson

MN: G Gheorghe

NJ: S Bota, E Brand-Schieber, AI Brooks,

NM: G Kyle, T Vulcan

NY: D Axlinte, P Ballabh, AM Beal, M Beelitz, TJ Belbin, BB Bhimavapu, P Brink, KD Brunnemann, AU

Carbonell, MJ Caimano, A Corona, M Desruisseaux, A Ding, P Dohare, D Duan, LK Friedman, J

Geliebter, Y Hannun, J Huang, S Iacobas, R Iyer, MJ Iatropoulos, K Khitrov, RN Kitsis, T Kobets, DO

Kravchick, V Kudur, L Jeliks, B Jordan, EF LaGamma, J Leheste, WE Li, SL Lowery, A Luthra, J

Mankuso, A Massimi, R Mathew, B McEwen, A Moscatello, S Mukherjee, NK Pandey, A Patel, D

Paul, C Putterman, JD Radolf, JK Rasamny, E Scemes, I Schwartz, P Scherer, DC Spray, SO Suadicani,

H Tanowitz, M Thi, R Tiwari, N Tuli, M Urban, A Viale, L Velisek, J Veliskova, G Vinukonda, LR

Vose, LM Weiss, P Werner, M Williams, M Wittner, MT Zia

OH: D Matei

PA: JF Jasmin, MM Lisanti, L Xi

TN: C Crisman, G Hallam

TX: GA Calin, X Dong, N Ede, M Hada, N Hritonenko, A Ho, T Horton, I Iacobas, C Ivan, A Joy, A Keaton, S

Kim, A Kumar, V Mgbena, M Pulikkathara, P Saganti, M Sadiku, H Wang, R Wilkins

UT: MA Cohen

VA: Y Bao

WA: G Neal-Perry

II. CANADA: S Dang, V Kardami, M Jeyaraman, J Makazan, BE Nickel, W Srisakuldee, S Tanguy, J Tarbell, G Zoidl

III. EUROPE

ARMENIA: C Goletiani

BELGIUM: K Van Roosbroeck

CZECH R: P Kremar, M Machala, V Mornstein, J Neca, K Pencikova, J Prochazkova, P Simeckova, J Slavik,

L Umannova, J Vondracek

FRANCE: JF Desaphy, S Morin, JP Penneec

GEORGIA: N Nebieridze

GERMANY: R Dermietzel, U Deschl, S Dhein, R Glaser, M Hrdinka, Karpova, Kreutz MR, J Lopez-Rojas,

FV Mohr, A Sturdza, J Trotter, E Vock, G Zoidl
GREECE: S Alahiotis, G Lefterakis
HUNGARY: S Gyorgyi, P Igaz, L Kerstelyi
ITALY: DC Camerino, A Frigeri, GP Nicchia, F Ruzzier, M Svelto
PORTUGAL: Z Mainen
ROMANIA: C Ailoaie, B Amuzescu, C Ciontu, A Croitoru, A Florescu, M Godeanu, S Iacobas, A Ionescu, G Mihalas, E Niculescu-Mizil, D Paul, C Spataru, T Spircu, S Tigan, V Vasilescu, D Verman
RUSSIA: TV Serebrovskaya, G Sidyelyeva
SLOVAK R: E Kukurova
SLOVENIA: M Schuka, S Svetina
SPAIN: J Uso, Y Vilacampa,
UK: C Brebia, K Lilley, MP Lisanti, NM Thomas
UKRAINE: S Chernyshenko

IV. CENTRAL AND SOUTH AMERICA

ARGENTINA: C Leguizamon, N Rubio, F Saravi
BRAZIL: D Adesse, LC Belem, AC Campos de Carvalho, P Costa, HFR Dohman, RR dosSantos, BL Esporcatte, FS Fortes, G Garzoni, RC Goldenberg, H Huang, R Linden, RS Lima, F Montalvo, M deNarateh, S Lachtermacher, RS Lima, N Meirelles Mde, F Nagajyothi, F Neto, A Rabischhoffsky, D Rodrigues, SR Rogatto, MB Soares, BSF Souza, L Vairo, R Vasconcellos
CHILE: E Gonzales-Olivares, R Jimenez
COLOMBIA: H Morales, H Moreno-Rojas, A Munoz-Loiza
MEXICO: AF Collar, LL Rocha
PANAMA: R Howe
VENEZUELA: JA Leon

V. AUSTRALIA: MJ Benson, K Borges