Dumitru Andrei Iacobas, Ph.D.

EDUCATION:

1967-1971 Baccalaureate **9.66/10** (Physics 10, Mathematics 10, Romanian Literature 9), National College "V Alecsandri", Galati, Romania, **Valedictorian**.

1971-1976 B.S. (**9.64/10** Physics) + M.S.-equivalent (Biophysics, **10/10**), University of Bucharest, Romania. MS Thesis: "Theoretical and experimental contributions to the study of membrane ionic channels". Mentor: Prof.Dr. V. Gheorghe

1976-1978 M.S.-equivalent (Physics Teaching), **10/10**. University of Bucharest. Thesis: "An Atomic Faust". Mentor: Prof. II Popescu

1989-1990 M.S.-equivalent (Medical Physics, **10/10**). University of Bucharest. Thesis: "New calibration method for gamma-scintillation chambers". Mentor: Prof. V Grecu

1990-1994 Ph.D. (Physics/Biophysics), University of Bucharest. Thesis: "Effects on gamma-lactonic compounds on the dynamics of ionic channels", Prof. G Turcu. *My PhD program was delayed for 14 years because of lacking the Communist Party recommendation in Communist Romania owing to my political opposition.*

SELECTED POST GRADUATE TRAINING

1992 Dept **Biophysics & Nuclear Medicine**, Universite Bretagne Occidentale, Brest, France (2 months, Prof Morin)

1993 **Institute of Biophysics**, University of Ljubljana, Slovenia (2w, Prof Svetina)

1996 Dept. **Experimental Biophysics**, Humboldt University, Berlin (Germany), 1 month (Prof R Glaser), German Academy

2002-2004 Short courses on gene microarray development and analysis

BOARD CERTIFICATION:

1978 University of Bucharest, Physics teacher

1990 University of Bucharest, Medical Physicist

ACADEMIC APPOINTMENTS:

2017- **Post-Doctoral Researcher**, Center for Computational Systems Biology, Department of Electrical and Computer Engineering, Prairie View A&M University

2013-2017 **Associate** (2014)/Assistant **Professor**, Department of Pathology, New York Medical College

2001-2013 **Assistant** (2006)/Visiting Associate **Professor**, Dominick P Purpura Dept. Neuroscience, Albert Einstein College of Medicine (AECOM)

1990-2001 Assistant/Associate Professor, Chair Division Biophysics, Medical Informatics, & Biostatistics, Ovidius University Medical School, Constanta, Romania

1981-1990 Instructor, Dept. Biophysics and Physiology, Carol Davila University of Medicine & Pharmacy, Bucharest, Romania

1976-1981 Lecturer National College of Mathematics and Physics "Mircea cel Batran" and National College of Natural Sciences "M Eminescu", Constanta, Romania

HOSPITAL APPOINTMENTS:

1990-1992 Medical Physicist-in-Chief, Director Nuclear Medicine Laboratory, (Romania, Constanta District) University Emergency Hospital

ADMINISTRATIVE APPOINTMENTS:

2015-2017 **Member** in NYMC –School of Medicine Dean Research Committee

2013-2017 **Director Systems Biology Core**, New York Medical College

2002-2006 **Associate-Director/Co-Director**, Molecular Biology & Neurogenomics Core,

Kennedy Center for Research in Mental Retardation and Human Development
2002-2005 **Co-Director**, Biometry Core, Kennedy Center for Research in Mental Retardation and Human Development, **AECOM**
1990-2001 **Head** Division Biophysics, Informatics, Biomathematics & Biostatistics, Medical School, Ovidius University, Constanta, Romania
1990-1992 **Director** of Nuclear Medicine Laboratory, Constanta District University Hospital
1978-1981 **Associate Principal** for Student Affairs, National College "M. Eminescu" of Natural Sciences, Constanta, Romania
1977-1978 **Director** of (Transmission) Electron Microscopy Laboratory, Central Institute for Sheep Research, Constanta, Romania

SELECTED AWARDS AND HONORS:
1971 Substitute for the World Silver Medalist Romanian National Representative to the **International Olympiad of Physics**, Sofia, Bulgaria, 1971.
1971-1976 National Merit Scholarship, University of Bucharest, Faculty of Physics
1984-2000 Awards to Attend the: 8th Summer School on Membrane Biophysics, Zakopane (Poland, 1984), International Center for Theoretical Physics (Trieste, Italy) 2nd (1990), 3rd (1992), 4th (1994) Autumn Courses on Mathematical Ecology, College on Medical Physics (1994), 3rd Encuentro Latino-Americano de Ecologia Matematica (Lujan, Argentina, 1994), ISEE Conference (Buffalo, NY, 2000)
1994-2000 2 terms **President** of the Eastern and Central European Society of Mathematical Ecology
1995 1st PHARE Prize "Young scientists and politicians in the civil society"
1999 **Honorary Citizen** of Louisville and **Honorary Citizen** of Jefferson County, KY
2001 **Scientific Research Award**, Literary Fund, Romania

PROFESSIONAL SOCIETY MEMBERSHIP
American Epilepsy Society (2016-present)
Academy for Medical Development and Collaboration (AMDEC): 2002-2013
American Heart Association: 2011-2012
American Society for Cell Biology (ASCB): 2002-2003
American Society of Neurochemistry (ASN): 2011-2012
Association of Biomolecular Resource Facilities (ABRF): 2001-2005
Asociation Latino-Americano de Biomatematica (ALAB): 1994:1999
Biophysical Society (BF): 1990-2000, 2005-2009
Eastern and Central European Society of Mathematical ecology (ECESME): 1994-2000
Encuentro Latino-Americano de Ecologia Matematica (ELAEM): 1994-1999
European Biomatematicians: 1990-1994
European Society of Medical Informatics (MISE): 1996:2003
International Society for Computational Biology (ISCB), 2011-2012
Romanian Physicists (1990-present)
Society for Neuroscience (SFN): 2006-2012

OTHER PROFESSIONAL ACTIVITIES:
1990-2001 - Committee on Appointments and Promotions, Ovidius University of Constanta,
- Inventors Committee, Ovidius University of Constanta, Romania
1995, 1996 **Chair** 1st and 2nd International Conference "Sustainable Development: System Analysis in Ecology", Dnepopetrovsk (1995), Sevastopol (1996), (Ukraine)
2001 - Member **Intl Scientific Advisory Board and Session Chair** 1st Intl Conference on Sustainable Planning and Development, Skiathos Island, (Greece)
- Member **International Scientific Advisory Board and Session Chair** of the 13th International Conference of the International Society for Environmental

Epidemiology, Garmisch-Partenkirchen, (Germany)
- Scientific Research Award, Literary Fund, Romania

2001-2004 Member **Microarray Research Group** (MARG) of the Association of Biomolecular Resource Facilities (ABRF)

2001, 2003, 2005 Member **International Scientific Advisory Board and Session Chair** 3rd, 4th and 5th International Conference on Ecosystems and Sustainable Development, Alicante (Spain), Siena, (Italy), Cadiz, (Spain)

2002 **Chair Tutorial Session** 13 International Symposium "Biomolecular Technologies: Tools for discovery in proteomics and genomics", Austin, TX
Scholarship award to attend the Short course on gene microarray development and analysis, JacksonLab, Bar harbor, ME, 04/24-28

2002-2008 Board of **Microarray Core Directors**, Academy for Medical Development and Collaboration (AMDeC)

2003 Member **International Scientific Advisory Board and Session Chair** 1st Intl Conference on Medical Informatics and Bioengineering, Craiova (Romania)

2008-2011 Member **Genomic Analysis and Technology Excellence** (GATE) group of the Academy for Medical Development and Collaboration (AMDeC)

2012 **Chair** Colloquium **"Intercellular Signaling and Myelination",** 43rd Ann Meeting of the American Society for Neurochemistry, Baltimore, MD, March 03-07/2012.

GRANT REVIEWER:

2010 NIH SBIR Topic 110 Review Committee

2010-present General Directorate for Health and Technologies Research, Ministry of Labor, Health and Social Policies, **Italy**

2011-present National Council for Scientific Research, **Romania**

2014-present National Science Centre, **Poland**

RESEARCH GRANTS AND CONTRACTS (since 2001 when immigrated in the USA)**:**

NIH R01 NS34931 PI DC Spray 4/1/01-3/31/03
Gap junction and Schwann Cells
Role: **Co-Investigator** (2001-2003)
To determine the effects of gap junction expression on Schwann cell function and the interactions between gap junction proteins and cell adhesion molecules in glia cells from wild type and connexin knockout mice
$430,000

NIH R21 NS42807 P.I. D.C. Spray 9/29/01-9/28/03
Optimized microarray analysis of neural differentiation (Co-PI)
Role: Co-Principal Investigator
The primary objective of this grant is the development of algorithms to optimally detect genes that are up- or down-regulated using gene microarrays prepared in-house. **The project was ranked in the 2.0 percentile.**
$415,000

NIH 3P30 HD001799-40S1 PI DS Faber 07/01/02-06/30/06
Support for RF Kennedy Mental Retardation Research Center
Role: **Co-Director** Biometry Core
Role: **Associate Director** Molecular Biology & Neurogenomics Core
To provide technical assistance in cDNA microarray experiments, and to implement, maintain and update acquisition software, correction/normalization algorithms and data mining

procedures for genomic studies.
$2,075,000

NIH PO1 (DK060037) PD A Melman 4/01/03-1/31/08
Role: **Investigator** Project #4 "Smooth Muscle Differential Function and Diabetes", (PI D Spray)
Role: **Investigator** Core C Mathematical modeling (PI S Schwartz)
The primary objective of Core C is to develop a mathematical model of the intercellular calcium signaling in diabetic smooth muscle
$2,666,000

NIH PO1 HD32573 PD: GG Haddad 2/10/2005-7/31/2010
"Hypoxia in development: injury and adaptation mechanisms"
Role: **Principal Investigator and Director Core D** "Computational and Functional Genomics"
The objective of this Core Facility is to assist investigators in designing, processing and managing cDNA, oligonucleotide, antibody and protein array experiments to analyze alterations of transcripome and proteome and of protein-protein interactions in cultured cells, selected tissue regions or whole organs of mice exposed to hypoxia or in mutant mice, and to provide consultation and training in the use of advanced statistical methods and mathematical modeling. **The PO was ranked in the 0.5 percentile with Core D getting the best score.**
$12,125,000

NIH RO1 HL073732 PI: AC Campos de Carvalho 7/15/**2003**-6/30/2012
Stem Cell Based Therapies in Chagasic Cardiomyopathy
Role: **Investigator**
This grant dealt with use of hematopoetic stem cells in treatment of an animal model of dilated cardiomyopathy. Dr. Iacobas was responsible for designing and processing microarray analysis as an unbiased approach for evaluating therapeutic efficacy of stem cell treatment.
$4,150,000

NIH 5R01HL092001 PI: **DA Iacobas** 7/01/2009-6/30/2012
Connexin-Dependent Transcriptomic Networks in Controlling the Heart Rhythm
Role: **Principal Investigator**
This grant has identified and studied the networks of genes that generate, maintain and modulate the rhythmic waves of contraction that spread through the heart and make it beat. Disruption of these regulatory gene networks may underlie heart failure, the leading cause of death in the U.S. This research will lead to novel insights into heart disease and to new approaches to restore normal cardiac function by manipulating gene webs.
$830,000

App ID#: 256455 **MPI:** L Velisek, CE Stafstrom, **DA Iacobas** 01/01/13-12/31/14
Agency: Citizens United for Research in Epilepsy (CURE)
Developing and testing novel treatments for infantile spasms
Role: (Multiple) **Principal Investigator**
We propose that melanocortin analogs and other hypothalamus-linked peptides have equal or better efficacy, fewer adverse effects, and are easier to use than ACTH for treatment of IS. We will test this hypothesis and elucidate the molecular basis of action of these compounds with the goal of improving the treatment armamentarium for children with IS. Remodeling of genomic fabrics will be used as biomarkers of drug efficacy.
$333,000

NIH 5R01AI045801-12 ADM SUPPL. PI I Schwartz 7/01/13-6/30/14
B Burgdorferi tick phase genes and Lyme disease

Role: **Investigator**

In the parent grant, we proposed to perform transcriptional profiling of B. burgdorferi at various stages during the tick phase of the enzootic cycle. In this supplemental request we propose to extend and strengthen the transcriptome data by employing a systems biology approach that will integrate data from the various stages of the enzootic cycle so as to build a comprehensive model B. burgdorferi gene expression, and its regulation, as it transits from an infected host through the tick and back to a naïve mammal.

$166,000

SUBCONTRACT UFRJ PI: **DA Iacobas** 3/21/2014-4/30/2014

Agency: Universidade Federal do Rio de Janeiro

Retina cytoprotection by overexpressing Max gene

Role: **Principal Investigator**

This subcontract completes a series of experiments that analyze the remodeling of several genomic fabrics in injured rat retina subjected to various treatments.

$5,000

NYMC INTRAMURAL PI: R Mathew 7/1/2014-6/30/15

Agency: New York Medical College

Endothelial Disruption Precedes Neointima Formation in Pulmonary Hypertension

Role: **Investigator**

Dr. Iacobas investigated the genomic alterations in pulmonary hypertension (PH) that distinguishes reversibility vs. irreversibility of PH

$20,000

BOEHRINGER-INGELHEIM PI: G Williams 9/1/2014-8/31/2016

Phase 3: Chicken Egg (CE) Genotoxicity and Carcinogenicity Assessing Assay for Use as an Alternative Preclinical Model to Investigate Drug-Induced Toxicity with Special Interest in Carcinogenicity Testing

Role: **Investigator**

Dr. Iacobas investigates the genomic fabric remodeling in the liver of chicken exposed in ovo to selected carcinogenic toxins

$1,245,000

NYMC Department of Pathology: **PI: DA Iacobas** 11/1/2014-10/31/2015

"Genomic fabric remodeling and daptomycin resistance in *E. faecium* infection".

This Pilot study evaluates the genomic mechanisms of the antimicrobial resistance in blood isolates.

Role: **Principal Investigator**

$10,000

NYMC Department of Medicine/Cardiology: **PI: DA Iacobas** 7/1/2015-6/30/2017

"Computerized system for cardiology services"

Develop a multiscale mathematical model and the associated software and implement them at the Cardiology Services of Westchester Medical Center.

Role: **Principal Investigator**

$10,000

NYMC Department of Pathology: **PI: DA Iacobas** 7/1/2015-6/30/2017

"Quantifying cancer-associated remodeling of key genomic fabrics by next gen sequencing"

Develop and validate the "genomic fabric remodeling" approach as a holistic alternative to the biomarker paradigm in cancer diagnosis and treatment.

Role: **Principal Investigator**
$10,000

SUBCONTRACT UFRJ **PI: DA Iacobas** 3/01/2017-6/30/2017
Agency: Universidade Federal do Rio de Janeiro
Retina cytoprotection by overexpressing Max gene
Role: **Principal Investigator**
This subcontract adds a new series of experiments that analyze the remodeling of major genomic fabrics in injured rat retina subjected to various treatments.
$5,000

RESEARCH GRANTS AND CONTRACTS IN ROMANIA (1981-2001)

(Romanian) Ministry of Culture (Literary Fund) **PI: DA Iacobas** 7/01/00-6/30/01
Procedure to analyze the human genome in the pre-Hilbert space of standard gene expression
To develop a theoretical framework and the necessary mathematical algorithms by which to analyze and model the gene expression patterns
Role: **Principal Investigator**

AIHA, USAID **PD: Prasaad-Steiner (USA)** 3/01/98-2/28/00
Healthy Communities/Women's Wellness Partnership
Areas of Focus: Community Health, Women's Health
Project 4: Survey of women's health in the city of Constanta, Romania. Statistics core: To organize and manage the statistical survey of the partnership.
Role: **Core Director**

Ministero de Educacion Nacional de Republica Colombia **PD:** A Munoz-Loaiza 3/01/99-28/02/01
Maestria en biomatematica. (Organize a mastership program in biomathematics in Colombia).
Biostatistics core: Expert assistance in forming the first series of Colombian MS in biostatistics.
Role: Core Director

Eastern & Central European Society of Mathematical Ecology **PI: DA Iacobas** 7/01/98-6/30/00
Environmental Educational Program
Role: **Principal Investigator**

Romanian Ministry of Scientific Research **PI: DA Iacobas** 10/1/95-9/30/98
"Lacustrine ecosystem stability and evolution in the District of Constanţa"
To study, develop a mathematical model and predict the evolution of the lakes Mamaia and Tabacarie and the surrounding regions
Role: **Principal Investigator**

Lehrstuhl für Experimentelle Biophysik des Institutes für Biologie der Humboldt Universität, Berlin **PI: R. Glaser (Germany)** 1996
Untersuchungen zur pharmacologishen Beeinflussung von Ionenkanalen insbensondere mit der Methode der Patch-Clamp-Messung. Insbesondere soll die Einwirkung von Ascorbinsaure (Vitamin C) untersucht werden.
Role: **Investigator**

EUROPEAN PHARE Program **PD: M Godeanu** 1995
"Young Scientists in Politics"

Theme 2: "Pathology and social therapy"
Role: **Principal Investigator**

University of Nottingham **PI: PNR Usherwood (UK)** 1995
"Cloned, native and mutant sodium channels from housefly nervous system"
Role: **Investigator**

Ljubljana University **PI: S Svetina (Slovenia)** 1994
"Water contribution on theter formation"
Role: **Investigator**

European program "Biomembrane Network" PI: P. Quinn (UK) 1993
"The structure and dynamics of biological membranes and related lipid-water model membrane systems as revealed by the application of advanced biophysical methods"
Role: **Program Coordinator for Romania**

European Tempus Program **PI: JP Pennec (France)** 1992
"Ascorbic acid action on the membrane bioelectrogenesis"
Role: **Investigator**

Universita di Trieste **PI: F Ruzzier (Italy)** 1990-1992
"Unsaturated gamma lactone compound action on bioelectrogenesis. Microscopical and macroscopical effects".
Role: **Investigator**

ICEBIOL (Romania) **PI: DA Iacobas** 1986
"Mathematical model and computer software for taxonomic indices"
Role: **Principal Investigator**

University of Nottingham **PI: PNR Usherwood (UK)** 1985-1988
"Whole - cell recording of cloride currents from the earth-worm cerebro-ganglion neuron"
Role: **Investigator**

Romanian National Academy **PI: V.Vasilescu** 1985-86
"Heavy water effects on the excitable systems"
Role: **Investigator**

Miraj Co (Romania) **PI: V Vasilescu** 1984-85
"Studii privind efectul unor creme hidratante asupra pielii"
Role: **Investigator**

Romanian Ministry of Education **PI: V Vasilescu** 1982-85
"Aspecte fiziologice şi patologice ale mecanismelor de bioelectrogeneză. Implicaţii şi aplicaţii clinice"
Role: **Investigator**

EDUCATIONAL ACTIVITIES

1) <u>College level</u> (in Romanian)**:**

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

Biophysics - practical classes (16h/week, 1st Semester) 1981-1988
Seminars of Bioinformatics (2h/week, 2nd Semester) 1981-1988
Physiology & Clinical lab - practical classes (12h/week, 1st & 2nd Sems) 1988-1990
Computational Methods in Physiology – Open course (16h in 2nd Semester) 1988-1990

"Connexins, Calcium waves and myelination", 2h/y Invited lecture within the optional Neuroscience course of Prof. L. Zagrean, Chair Department of Physiology, Carol Davila University of Medicine and Pharmacy, Bucharest 2008-2009

"Ovidius" University, Constanta, Romania

Biophysics Lectures in Romanian, English and French for MD, DDR, Biology and Ecology students (28-32h in the 1st Semester) 1990-2001

Biostatistics Lectures in Romanian and English for MD and DDR students (28-32h in the 2nd Semester) 1992-2001

General Physics for foreign MD students in English and French 1992-1994

Mathematical Modeling of Biosystems for Biology and Ecology students (28h in the 2nd Semester) 1994-2000

2) <u>Postgraduate level</u>:

Universidad de Caldas, Manizales, Colombia

Bioestadistica medica (in Spanish), 14h, Intensive Introductory Course within an exploratory MS program in biomathematics in Colombia. 1999

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

"Transcriptomics" within E. Scemes course "Modern techniques applied to neuroscience", 6h/year **2003-2012**

"A 2D stochastic model of calcium wave propagation in glia", 2h, 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, Valhalla, NY

"Microarrays to explore functional genomic fabrics" within C Ojaimi course

"Ecosystems stability and evolution" within N Haque course "Evolutionary Medicine", 2h/year, Graduate School of Basic Medical Sciences (GSBMS) **2016-2017**

SELECTED INVITED LECTURES:

"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

"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 Intl. Conf 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.

"Alteration and recovery of the neurotransmission genomic fabrics in epilepsy and treatment", McGovern Medical school, University of Texas at Houston. Host: Dr. V. Dragoi, Levit Distinguished Professor of Neuroscience, 3/30/2018.

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

"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

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

"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

Biofisica, Rio de Janeiro, **Brazil**. 9/28/2015. Host: Dr. AC de Carvalho.

"Retrospective review of Parkinsonian features in 123I-FP-CIT SPECT scanned outpatients", 6/8-12/2014. 18th Intl Congress of Parkinson's Disease and Movement Disorders, Stockholm, **Sweden**

"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.

"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.

"Tumorigenesis: a genomic fabric interplay going bad?", SUNY 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.

"Trancellular 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.

"Sex dichotomy and remodeling of neurogenomic fabrics", SUNY 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 Ca^{2+}-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

"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 Harbor Laboratory, Woodbury, NY. 02/24/2006. Host: Dr S. Welle, Director AMDeC Steering Committee.

"Physics of the transcriptome", 2005, Dept Physics, NMSU, Las Cruces, NM. Host Dr.G Kyle, Head 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

"Coordinated transcriptomics – a new tool to identify functional pathways in the cell", University of Medicine and Pharmacy, Craiova, **Romania**, (Host: Prof. M Tarata), 10/10/2003.

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

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

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

"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)

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

"Applicaciones clinicas de la Teoria del patologico". Facultad de Medicina, Universidad Tecnologica de Pereira. Pereira, **Colombia**. 13/05/1999. (Hosted: Prof. H. Moreno-Rojas, Dean).

"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)

"Women health at Constanta, Romania". Univ of Louisville, KY. 09/14/1999. (Host: Prof.P.W.Steiner).

"Bioelectrogenesis of the lumbricus terrestris ganglia chain", Dipartimento di Physiologia e Biophysica, Universita di Trieste, **Italy**. 10/10/1998. Host: Dr F Ruzzier, Chair.

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

"Problemas teoreticos y experimentales en los estudios electrofisiologicos". 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.

"The Theory of Patholog", 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 Gyiorgy, Chair.

"A quantum model of the Cl^- ionic channel in axolemma", Universite Bretagne Occidentale, Brest, France. 06/25/1992. Host: Dr. JP Pennec, Chair of the Department Animal Physiologie et Biophysique.

ORIGINAL PEER-REVIEWED ARTICLES:

83 **Iacobas DA**, Iacobas S, Nebieridze N, Velisek L, Veliskova J (2018): Estrogen protects neurotransmission transcriptome during status epilepticus, Frontiers in Neuroendocrine Science. DOI: 10.3389/fnins.2018.00332. **IF = 3.566.**

82 **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. *Sci Rep.* 8:5722, DOI: 10.1038/s41598-018-24013-x. **IF = 5.08.**

81 **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**

80 **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 = 2.86**

79 **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

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2-5 **Iacobas DA**. (1996, 2nd English edition) Cell Biophysics. (Total 4 editions: 2 English + 2 Romanian), Bucharest: Bucura Mond. ISBN 973-97977-2-5
1 **Iacobas DA**. (1995) (Romanian: Social pathology and therapy, A systems approach on social and political transition in post-communist Romania), Bucharest: Bucura Mond Ltd. ISBN 973-96889-5-0 (1st European PHARE Prize for "Young scientists and politicians in the civil society").

PATENTS FOR INVENTIONS:

3 **Iacobas DA**, Amuzescu B. (1991). Device to clean and stabilise the patch-clamp pipettes (Romanian: Instalaţie pentru curatirea si 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 curenţilor ionici unicanal din biomembrane). Patent no. 102203 (Romania).

1 **Iacobas DA**, Ailoaie, C. (1986). Micro-pipette puller (Romanian: Aparat pentru confectionarea micropipetelor din sticla). Patent no. 96704 (Romania).

CONTRIBUTIONS TO THE DBASES OF THE NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION (http://www.ncbi.nlm.nih.gov/gquery/?term=iacobas+)

Bioprojects:

6 **PRJNA130217:** Alterations in the Brain Transcriptome in Plasmodium Berghei ANKA Infected Mice. Organism: Mus musculus.

5 **PRJNA119085:** Gene expression changes associated with myocarditis and fibrosis in hearts of mice with chronic chagasic cardiomyopathy. Organism: Mus musculus

4 **PRJNA119013:** Transcriptomic alterations in Trypanosoma cruzi-infected cardiac myocytes. Organism: Mus musculus

3 **PRJNA113619:** Effect of microgravity on brain gene expression in mice. Organism: Mus musculus

2 **PRJNA100989:** Fluid Shear Stress Up-regulates Vascular Endothelial Growth Factor Gene. Organism: Mus musculus

1 **PRJNA100967:** Gap junction and purinergic P2 receptor proteins as a functional unit: insights from transcriptomics. Organism: Mus musculus

Nucleotides:

1. Homo sapiens proline rich 7, synaptic (PRR7), transcript variant 3, mRNA; 1,375 bp linear mRNA; NM_001174102.2; GI:1134928664
2. Homo sapiens proline rich 7, synaptic (PRR7), transcript variant 1, mRNA; 1,543 bp linear mRNA; NM_030567.4; GI:291575151
3. Cloning vector 5A4 NP1, complete sequence 6,955 bp linear other-genetic; KM576780.1; GI:732555979
4. Homo sapiens proline rich 7, synaptic (PRR7), transcript variant 2, mRNA 1,458 bp linear mRNA; NM_001174101.1; GI: 291575153
5. Mus musculus plakophilin 2 (Pkp2), mRNA; 2,891 bp linear mRNA; NM_026163.2; GI:142349260

Proteins:

1. proline-rich protein 7 [Homo sapiens]; 274 aa protein; NP_001167573.1; GI:291575156
2. proline-rich protein 7 [Homo sapiens]; 274 aa protein; NP_001167572.1; GI: 291575154
3. proline-rich protein 7 [Homo sapiens]; 274 aa protein; NP_085044.2; GI:21361937
4. RecName: Full=F-box/WD repeat-containing protein 7; 713 aa protein; D3Z902.2; GI: 1270743855
5. RecName: Full=Proline-rich protein 7; AltName: Full=Synaptic proline-rich membrane protein; 269 aa protein; P0C6T3.1; GI:182676480
6. RecName: Full=Proline-rich protein 7; AltName: Full=Synaptic proline-rich membrane protein; 269 aa protein; Q3V0I2.1; GI:123785534
7. RecName: Full=Proline-rich protein 7; AltName: Full=Synaptic proline-rich membrane protein; 274 aa protein; Q8TB68.1; GI:74730435
8. RecName: Full=F-box/WD repeat-containing protein 7; AltName: Full=Archipelago homolog; Short=hAgo; AltName: Full=F-box and WD-40 domain-containing protein 7; AltName: Full=F-box protein FBX30; AltName: Full=SEL-10; AltName: Full=hCdc4; 707 aa protein; Q969H0.1; GI:44887885
9. RecName: Full=Glutamate receptor ionotropic, NMDA 2B; Short=GluN2B; AltName:

Full=Glutamate [NMDA] receptor subunit epsilon-2; AltName: Full=N-methyl D-aspartate receptor subtype 2B; Short=NMDAR2B; Short=NR2B; AltName: Full=N-methyl-D-aspartate receptor subunit 3; Short=NR3; Short=hNR3; Flags: Precursor; 1484 aa protein; Q13224.3; GI:14548162

10. RecName: Full=Glutamate receptor ionotropic, NMDA 1; Short=GluN1; AltName: Full=Glutamate [NMDA] receptor subunit zeta-1; AltName: Full=N-methyl-D-aspartate receptor subunit NR1; Short=NMD-R1; Flags: Precursor 938 aa protein; P35439.1; GI: 548379
11. RecName: Full=Glutamate receptor ionotropic, NMDA 1; Short=GluN1; AltName: Full=Glutamate [NMDA] receptor subunit zeta-1; AltName: Full=N-methyl-D-aspartate receptor subunit NR1; Short=NMD-R1; Flags: Precursor 938 aa protein; Q05586.1; GI: 548377
12. RecName: Full=Glutamate receptor ionotropic, NMDA 2B; Short=GluN2B; AltName: Full=Glutamate [NMDA] receptor subunit epsilon-2; AltName: Full=N-methyl D-aspartate receptor subtype 2B; Short=NMDAR2B; Short=NR2B; Flags: Precursor 1482 aa protein; Q00960.1; GI:548372
13. RecName: Full=Disks large homolog 4; AltName: Full=Postsynaptic density protein 95; Short=PSD-95; AltName: Full=Synapse-associated protein 90; Short=SAP-90; Short=SAP90 724 aa protein; P31016.1; GI:400891
14. RecName: Full=Transcription factor AP-1; AltName: Full=Activator protein 1; Short=AP1; AltName: Full=Proto-oncogene c-Jun; AltName: Full=V-jun avian sarcoma virus 17 oncogene homolog 334 aa protein; P17325.1; GI:135300
15. RecName: Full=Transcription factor AP-1; AltName: Full=AH119; AltName: Full=Activator protein 1; Short=AP1; AltName: Full=Proto-oncogene c-Jun; AltName: Full=V-jun avian sarcoma virus 17 oncogene homolog; Short=Jun A 334 aa protein; P05627.3; GI:135299
16. RecName: Full=Transcription factor AP-1; AltName: Full=Activator protein 1; Short=AP1; AltName: Full=Proto-oncogene c-Jun; AltName: Full=V-jun avian sarcoma virus 17 oncogene homolog; AltName: Full=p39 331 aa protein; P05412.2; GI:135298
17. GFP [Cloning vector 5A4 NP1]; 238 aa protein; AIZ73052.1; GI:732555984
18. bbb22, partial [Cloning vector 5A4 NP1] 261 aa protein; AIZ73051.1; GI:732555983
19. bbb19 [Cloning vector 5A4 NP1] 210 aa protein; AIZ73050.1; GI:732555982
20. bbb20 [Cloning vector 5A4 NP1] 36 aa protein; AIZ73049.1; GI:732555981
21. accC1 [Cloning vector 5A4 NP1] 177 aa protein; AIZ73048.1; GI:732555980
22. plakophilin-2 [Mus musculus]; 795 aa protein; NP_080439.1; GI:21312960

GEO DataSets:

GDS3655: Post-ischemic heart failure model [*Mus musculus*]

GSE116361: Hierarchal gene master regulators of adenocarcinomic human alveolar basal epithelial cells A549 [*Homo sapiens*]

GSE110906: Genotoxicity of nitrosamines [*Gallus gallus*]

GSE110904: Gene expression in chicken embryo liver [*Gallus gallus*]

GSE109035: Proximity of oligodendrocytes remodels astrocytes' transcriptome [*Mus musculus*]

GSE107725: Estrogen protects neurotransmission transcriptome during status epilepticus [*Rattus norvegicus*]

GSE97427: Validation of the Personalized Gene Therapy by stably transfection of UBALD1 in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*]

GSE97031: 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*]

GSE97030: Validation of the Personalized Gene Therapy by stably transfection of PANK2 in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*]

GSE97028: Validation of the Personalized Gene Therapy by stably transfection of DDX19B in the papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*]
GSE97002: Hierarchal gene master regulators of papillary (BCPAP) and anaplastic (8505C) thyroid cancer cell lines [*Homo sapiens*]
GSE97001: Hierarchal gene master regulators of one case of papillary thyroid cancer [*Homo sapiens*]
GSE84872: Gene-regulatory networks activated by pattern-specific generation of action potentials in dorsal root ganglia neurons [*Mus musculus*]
GSE84585: Remodeling of synaptic transmission genomic fabrics in the hypothalamic arcuate nucleus of a rat female model of infantile spasms [*Rattus norvegicus*]
GSE81061: Remodeling of synaptic transmission genomic fabrics in a model of infantile spasms [*Rattus norvegicus*]
GSE76694: Transcriptomic effects of prenatal exposure to corticosteroids on synaptic transmission [*Rattus norvegicus*]
GSE72707: Genomic alterations during the progress of pulmonary hypertension [*Rattus norvegicus*]
GSE72563: Haploinsufficiency in bromodomain containing 2 (Brd2) gene remodels synaptic transmission in female mouse striatum in a sex-specific manner [*Mus musculus*]
GSE72562: Haploinsufficiency in bromodomain containing 2 (Brd2) gene remodels synaptic transmission in male mouse striatum [*Mus musculus*]
GSE72561: Transcriptomic effects of law salt diet on the mouse left ventricle [*Mus musculus*]
GSE72415: Transcriptomic effects of Capridine on the acute promyelocytic leukemia HL-60 cell line [*Homo sapiens*]
GSE72414: Remodeling of DNA transcription genomic fabric in Capridine-treated LNCaP human prostate cancer cell line [*Homo sapiens*]
GSE72333: Remodeling of major genomic fabrics and their interplay in Capridine-treated DU145 classic human prostate cancer [*Homo sapiens*]
GSE72304: Remodeling of major genomic fabrics and their interplay in metastatic clear cell renal carcinoma [*Homo sapiens*]
GSE62686: PRR7 is a novel NMDA-dependent inhibitor of c-Jun ubiquitination in neurons [*Rattus norvegicus*]
GSE60013: EB-mediated NPY expression and release. [*Rattus norvegicus*]
GSE48170: Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse ovary and pituitary gland [*Mus musculus*]
GSE48169: Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse pituitary gland [*Mus musculus*]
GSE48167: Transcriptomic effects on early life and peripubertal dietary vitamin D deficiency on mouse ovary [*Mus musculus*]
GSE45348: Left-right transcriptomic differences in adult male mouse heart ventricles [*Mus musculus*]
GSE45339: Left-right transcriptomic differences in adult male mouse heart atria [*Mus musculus*]
GSE44858: Prenatal exposure to corticosteroids: hypothalamic changes relevant for postnatal behavioral impairments [*Rattus norvegicus*]
GSE44610: Postnatal glucocorticoids suppress myelination in a dose-dependent manner by genomic mechanisms [*Oryctolagus cuniculus*]
GSE44031: Transcriptome profiling of hypocampal CA1 after early life seizure-induced preconditioning may elucidate new genetic therapies for epilepsy [*Rattus norvegicus*]
GSE38450: Analyzing the cytoskeletal transcriptome: sex differences in rat hypothalamus [*Rattus norvegicus*]
GSE37239: The connexin43-dependent transcriptome during brain development: importance of genetic background [*Mus musculus*]

GSE29769: Functional and Transcriptomic Recovery of Infarcted Mouse Myocardium Treated with Bone Marrow Mononuclear Cells [Mus musculus]
GSE24088: Therapy with bone marrow cells recovers gene expression alterations in hearts of mice with chronic chagasic cardiomyopathy [Mus musculus]
GSE24086 record: Alterations in the Neurological Transcriptome by Malarial Infection in Mice [Mus musculus]
GSE18726: Astrocye proximity modulates the myelination gene fabric of oligodendrocyte [Mus musculus]
GSE18703: Cardiac gene expression and systemic cytokine profile are complementary in a murine model of post ischemic heart failure [Mus musculus]
GSE18175 record: Transcriptomic alterations in a myoblast cell line infected with four distinct strains of Trypanosoma cruzi [Rattus norvegicus]
GSE17324: Sex-dependent gene regulatory networks of the heart rhythm. [Mus musculus]
GSE17363: Gene expression changes associated with myocarditis and fibrosis in hearts of mice with chronic chagasic cardiomyopathy [Mus musculus]
GSE17330: Transcriptomic alterations in Trypanosoma cruzi-infected cardiac myocytes, [Mus musculus]
GSE12312: Effect of microgravity on brain gene expression in mice [Mus musculus]
GSE8168: “Compensatory” transcriptional mechanisms: Comparison of transcriptomes of Cx43 null and knockdown astrocytes [Mus musculus]
GSE8117: Fluid Shear Stress Up-regulates Vascular Endothelial Growth Factor Gene. [Mus musculus]
GSE8105: Gap junction and purinergic P2 receptor proteins as a functional unit: insights from transcriptomics. [Mus musculus]
GSE6355: Connexin-dependent transcellular transcriptomic networks in mouse brain [Mus musculus]
GSE3289: Chronic hypoxia alters the level, maturation and control of gene expression in mouse kidney [Mus musculus]
GSE2271: Gene expression and phenotypic characterization of mouse heart after chronic constant or intermittent hypoxia [Mus musculus]
GSE2446: Transcriptomic alterations induced by AT-EAE in mouse spinal cord [Mus musculus]
GSE196: Connexin43 null vs wildtype neonatal mouse heart [Mus musculus]
GSE1954: CX43 heterozygous, Cx43 null and Cx32 null vs wildtype neonatal mouse brain [Mus musculus]
GSE580: CX43 KO vs WT cortical astrocytes [Mus musculus]
GPL5371: AECOM 32K MOUSE OLIGONUCLEOTIDE ARRAY, MO2 printing series
GPL369: AECOM MOUSE 9K CHIP
GPL14005: AECOM Operon 3.0 34k Mouse Array
GPL9207: Duke Operon Rat 27k V3.0 printed oligonucleotide array
GPL8928: Duke Mouse 36K oligonucleotide array Operon V4.0
GPL8938: Duke Mouse 30k Oligonucleotide Array Operon V3.0.1
GPL2828: YaleNIA15k cDNA microarray
GPL1862: AECOM Mouse 27K Chip
GPL1698: AECOM Mouse 27k cDNA array

FICTION:

3 **Iacobas DA**. (2000). “Tucapai”. (Romanian: Tucapai, philosophical novel on a possible quantum theory of cognition) Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-9-9.
2 **Iacobas DA**. (1998) “Noul Tetractys”. (Romanian: The New Tetractys, philosophical novel on a possible quantum refinement of Darwin’s Theory of Evolution). Constanta: Tilia Press Intl. Ltd. ISBN 973-98470-3-X.
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-

DRAMAS/SCRIPTS/MUSIC HALLS:

4 Iacobas DA (2004) “Urzici, ciuperci şi caltabosi”. (Stinging nettles, mushrooms and blood puddings, in Romanian) Lumea libera - A Worldwide Romanian Weekly, New York (in Romanian)

3 Iacobas D.A. (2000) “Deseara, nu veni la gară!” (Romanian: Don't come at station tonight!, in Romanian), 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”. (An Atomic Faust, in Romanian) Constanta: Dobrogea noua. Musical.