

CURRICULUM VITAE

Laszlo Nagy, M.D., Ph.D.

PERSONAL INFORMATION:

Sex: Male

Date of Birth: October 11, 1966

Place of Birth: Debrecen, Hungary

Marital status: Married-Andrea E. Károly, M.D.; 2 sons (Bence László Nagy & Máté Zsombor Nagy)

Citizenship: Hungarian



ADDRESS AND TELEPHONE NUMBERS:

Primary appointment:

Department of Medicine, Johns Hopkins University, Johns Hopkins All Children's Hospital, Saint Petersburg, FL 33701

600 Fifth Street South
St. Petersburg, FL 33701
(727) 767-8928
(727) 767-8804 (FAX)

E-mail: lnagy@jhmi.edu

Johns Hopkins All Children's Hospital website: <https://www.hopkinsallchildrens.org/>

Secondary Appointment:

Department of Biochemistry and Molecular Biology
Faculty of Medicine
University of Debrecen
Nagyerdei krt. 98.
Debrecen, Hungary
e-mail: nagyl@med.unideb.hu
University of Debrecen website: <http://nlab.med.unideb.hu/index.html>
phone: +36-52-416-342

EDUCATION AND TRAINING:

- | | |
|-----------|---|
| 1991 | M.D., University Medical School of Debrecen, Hungary |
| 1991-1992 | Research Fellow of the Hungarian Academy of Sciences, Department of Biochemistry, University Medical School, Debrecen, Hungary |
| 1992-1995 | Postdoctoral Fellow, Department of Pharmacology, University of Texas, Houston, Medical School(Advisor: Peter J.A. Davies, M.D., Ph.D.) |
| 1995 | Ph.D., (Cell and Molecular Biology) University Medical School of Debrecen, Hungary (Advisors: Laszlo Fesüs, M.D., Ph.D. and Peter J.A. Davies, M.D., Ph.D.) |
| 1995-1999 | Research Fellow in Biochemistry and Molecular Biology, Department of Biochemistry and Molecular Biology, University medical School of Debrecen, Hungary |
| 1996-1999 | Postdoctoral Associate, Gene Expression Laboratory, The Salk Institute for Biological Studies, La Jolla, CA (Advisor: Ronald M. Evans, Ph.D.) |
| 1997-1998 | Postdoctoral Fellow of the Howard Hughes Medical Institute |

- 2005 Doctor of Science (D.Sc.) Hungarian Academy of Sciences
 2006 Dr. habil. (Habilitation) University of Debrecen, Basic Medical Sciences

ACADEMIC POSITIONS/EMPLOYMENT:

- 1999-2000 Assistant Professor of Biochemistry and Molecular Biology, Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary
 1999-2010 Adjunct Professor of Pharmacology and Physiology Department of Integrative Biology Pharmacology and Physiology University of Texas-Houston, Medical School, Houston Texas
 2000-2006 Associate Professor of Biochemistry and Molecular Biology, Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary
 2000-2016 Founding Head of Center for Clinical Genomics and Personalized Medicine, University of Debrecen, Hungary
 2006- Professor of Biochemistry and Molecular Biology, Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary
 2013-2018 Director & Professor, Genomic Control of Metabolism Program, Sanford Burnham Prebys Medical Discovery Institute-Lake Nona, FL
 July-Nov 2018 Adjunct Professor, Sanford Burnham Prebys Medical Discovery Institute - Lake Nona, Orlando, FL
 2018-Present Professor of Medicine and Biological Chemistry (PAR), Associate Director, Center for Metabolic Origins of Disease
 Department of Medicine, Division of Endocrinology, Diabetes and Metabolism and Department of Biological Chemistry
 Johns Hopkins University, School of Medicine,
 Co-Director, Institute for Fundamental Biomedical Research, Johns Hopkins All Children's Hospital, St. Petersburg, FL.

RESEARCH INTEREST:

I am interested in dissecting the transcriptional and epigenomic basis of cell type specification and nuclear receptor mediated signaling in cells, particularly in macrophages, associated with metabolic diseases, chronic inflammation, cancer progression and tissue repair using system level, genomic, epigenomic, cell and molecular biology approaches.

HONORS AND AWARDS:

- 1989 Pro Scientia Gold Medal for Outstanding Scientific Achievements presented by the President of the Hungarian Academy of Sciences
 1989 Outstanding Tutor in Biology University Medical School of Debrecen
 1991 Weszprémi-Prize for Outstanding Academic and Scientific Activity presented by the Rector of the University Medical School of Debrecen
 1998-1999 Special Fellow of the Leukemia Society of America
 1998 Cheryl Whitlock/Pathology Prize, Stanford University
 1999 Boehringer Ingelheim Research Award
 1999-2002 Széchenyi Professorship
 1999 Ranked as #5 scientist in 1999 based on the number of highly cited, "Hot papers" published in 1997-1998 (Institute for Scientific Information Hot papers Database)
 2000-2010 Howard Hughes Medical Institute International Research Scholar
 2000-2004 European Molecular Biology Organization (EMBO) Young Investigator
 2003-2006 Szechenyi Istvan Professorship
 2005-2010 Wellcome Trust International Senior Research Fellow

- 2007 EMBO Member
 2007 Corresponding Member of the Hungarian Academy of Sciences (HAS)
 2008 European Society for Clinical Investigation (ESCI) Award for Excellence in Biomedical Investigation
 2010-2011 Fulbright Scholar
 2012 Academia Europaea, Member (Membership number: 3221)
 2012 Scientist of the Year 2012 (City of Debrecen, Dehir)
 2013 Regular Member of the Hungarian Academy of Sciences (HAS)
 2014 Béla Tankó Award, Hungarian Biochemical Society
 2014 Elected member, Henry Kunkel Society

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

- 1989- Member, Hungarian Biochemical Society
 1995- Member, Society of Pro Scientia Gold Medal Laureates
 2002- Member, Endocrine Society (US)
 2002- Member, European Macrophage and Dendritic Cell Society
 2003- American Society of Biochemistry and Molecular Biology
 2006- Founding member, Hungarian Society for Bioinformatics, Executive committee
 Member (2006-2010)
 2011- Member, American Association of Immunologists
 2012- Member, American Physiological Society
 2015- Member, American Heart Association
 2015- Member, American Diabetes Association

ADVISORY FUNCTIONS:

- 2004-2006 Scientific Advisor, BioSystems International SAS
 2004-2010 Member, Scientific Advisory Board, Cell therapy Unit, University of Debrecen
 2006- Member, Gerson Lehrman Group Councils
 2007- Chief Scientific Officer, UDGnoMed, Ltd.
 2008-2014 Member, Scientific Advisory Board, Gedeon Richter Pharmaceuticals, Inc.
 2008 Member of the International Advisory Board of the 10th Symposium on Dendritic cells (Kobe, Japan)
 2010- Advisory Committee member, International Society of Dendritic Cell and Vaccine Research
 2010-2012 Scientific Advisory Board member, Institute of Genetics, HAS BRC, Szeged, Hungary
 2012-2015 Member, FEBS Advance Course Committee
 2016- Member, EMBO Council
 2019- Member, ERC, LS6 Immunology Advanced Grant Panel
 2019-2022 Chair, International Scientific Advisory Group, Biological Research Center of the Hungarian Academy of Sciences at Szeged, Hungary
 2019- International Mentor, University of Szeged, Hungary

ACADEMIC FUNCTIONS:

- Doctoral Committee, Member (University of Debrecen) 2004-2007
 Doctoral Committee, Chair (University of Debrecen) 2007-2010
 University Senate, Member (University of Debrecen) 2012-2013
 Member of the Lake Nona site Executive Committee (Sanford Burnham Prebys Medical Discovery Institute) 2013-2017

EDITORIAL AND PEER REVIEW RESPONSIBILITIES:

- 2005- Editor, FEBS Letters
 2007- Advisory Editor, PPAR Research
 2009- Member of the Editorial Board, European Journal of Clinical Investigation
 2010-2017 Member of the Advisory Editorial Board, EMBO Reports
 2010- Member of the Advisory Editorial Board, Cell Death and Disease
 2010-2012 Advisory Editorial Board Member, Encyclopedia of Life Sciences, Biochemistry,
 2011- Founding Editor, FEBS OpenBio
 2012- Member of the Editorial Board, Molecular and Cellular Biology
 2012- Member of the Editorial Board, Clinical and Translational Medicine, Section of
 Clinical Genomics
 2011- Member of FEBS Letters Award Committee
 2013- Chair of FEBS Letters Award Committee
 2018- Associate Editor, Journal of Clinical Investigation

GUEST EDITOR:

- 2005 Molecular Nutrition and Food Research 49(11) (with Gerhard Spiteller)
 2008 FEBS Letters Special Issue on Metabolic Disease 582(1) (with Peter Tontonoz)
 2013 Immunobiology Special Issue on EMDS 2012 (with Eva Rajnavolgyi)
 2013 Seminars in Cell and Developmental Biology Nuclear Receptors in Embryonic Stem Cells
 2017 FEBS Letters Special Issue on Immunity and Metabolism 591(19) (with Wilfried Ellmaier)

AD HOC JOURNAL REVIEWER:

Arthritis and Rheumatism, Atherosclerosis, Thrombosis and Vascular Biology, Biochemical Pharmacology, Biophysical Journal, BBA, Biomolecular Concepts, Blood, BMC Medical Genomics, BMC Genomics, British Journal of Clinical Pharmacology, Cancer Immunology, Immunotherapy Cancer Research, Chemistry and Biology, Circulation, Cell Death and Differentiation, Cell Death and Disease, Cellular Reprogramming, Clinical Nutrition, Cytokine, Diabetes, Diabetologia, Drug Discovery Today, EMBO Journal, EMBO Molecular Medicine, EMBO Reports, European Journal of Immunology, Genes and Development, Immunity, International Journal of Biochemistry and Molecular Biology, International Journal of Cancer, International Immunology, Journal of the American Chemical Society, Journal of Biological Chemistry, Journal of Cell Biology, Journal of Clinical Investigations, Journal of Immunology, Journal of Leukocyte Biology, Leukemia, Molecular Aspects of Medicine, Molecular Carcinogenesis, Molecular and Cellular Biology, Molecular and Cellular Endocrinology, Molecular Endocrinology, Molecular Nutrition and Food Research, Molecular Pharmacology, Nature, Nature Immunology, Nature Medicine, Oncogene, Physiology, Proceedings of the National Academy of Sciences of the USA, Progress in Lipid Research, Prostaglandins and Other Lipid Mediators, PLoS ONE, PloS Genetics, Science, Science Signaling, Stem Cells, Swiss Medical Weekly, WIREs Systems Biology and Medicine

Verified refereeing activity from 2003 on PUBLONS.com Total: 365+ reviews

<https://publons.com/author/1174144/laszlo-nagy#profile>

<https://publons.com/author/1174144/laszlo-nagy#stats>

CONFERENCE AND ADVANCED COURSE ORGANIZATION:

- 2004 Symposium Organizer, World Congress on Basic and Clinical Immunogenomics, Budapest
 2003, 2005, 2007 Member, Organizing Committee, 3X EMBO Meeting Series on Nuclear Receptors

2005	Main Organizer, Atherosclerosis and Lipid Peroxidation, Debrecen-Hortobagy
2005	Symposium Organizer, 30 th FEBS-IUBMB Congress Budapest
2006	Main Organizer and Course Director, HHMI-UD Advanced Course on Modern Methods of Gene Expression Detection and Data Integration, Debrecen
2008	Member of the International Advisory Board, 10 th Symposium on Dendritic Cells, Kobe, Japan
2009	Main Organizer, EMBO Meeting Series on Nuclear Receptor, Dubrovnik, Croatia
2010	Symposium Organizer and Session Chair, 14 th ICI International Congress of Immunology, Kobe, Japan
2011	Main Organizer and Course Director, FEBS-UD Advanced Course on Gene Expression Regulation and Data Integration, Debrecen
2016	Main Organizer, Faculty Retreat, Sanford Burnham Prebys Medical Discovery Institute, Carlsbad, CA
2019	Main Organizer, EMBO Workshop on Research Integrity, University of Debrecen

AD HOC REVIEWER FOR RESEARCH FUNDING ORGANIZATIONS:

AICR, Boehringer Ingelheim Funds (Germany); Commission of the European Union (evaluator, reviewer, rapporteur), ERC reviewer; The Wellcome Trust (UK); FWO Belgium; European Molecular Biology Organization (EMBO); European Research Council (ERC), Netherlands Organization for Scientific Research (NWO); Hungarian Scientific Research Fund (OTKA); National Science Foundation (USA); Medical Research Council (UK); Association for International Cancer Research (UK); Semmelweis University, Hungary; Spanish Ministry of Health (Spain); Hungarian Academy of Sciences (Bolyai Fellowship Committee); Luxembourg National Research Fund (Luxembourg); Austrian Science Fund (FWF); University of Kentucky, COBRE CMED Pilot Projects, Swiss Federal Institute of Technology Zurich (ETH) (Switzerland); Science Foundation of Ireland; National Institutes of Health (intramural research) (USA); National Scientific Research Council (Romania)

NATIONAL INSTITUTE OF HEALTH (NIH):

2015: Integrative Nutrition and Metabolic Processes (INMP) Study Section, Temporary Member
 2018: Molecular and Cellular Endocrinology (MCE) Study Section, Temporary Member
 2019: Integrative Nutrition and Metabolic Processes (INMP) Study Section, Temporary Member

RESEARCH SUPPORT (direct cost):

Total amount (2000-): \$ 12,500,500 (direct cost)

Active:

2016-2020	METAKARD -New mechanisms in metabolic and cardiovascular disease National Research, Development and Innovation Office - GINOP-2.3.2-15-2015-00006 \$400,000 PI: Laszlo Fesus Role: Co-PI (5%)
2016-2019	Dissecting and aligning the regulatory and effector mechanisms shaping murine M2 macrophages Hungarian Scientific Research Fund (OTKA) (K116855)

	\$152,000 Role: PI (5%)
2017-2019	Dissecting the transcriptional network allowing macrophages to control angiogenesis Hungarian Scientific Research Fund (OTKA) (KH126885) \$70,700 Role: PI
2017-2019	Dissecting the transcription factor network of macrophage polarization and its implications to angiogenesis American Heart Association - 17POST33660450 \$52,216/yr PI: Bence Daniel Role: Mentor
2017-2020	Highly integrated genome level examination of transcription factor cascades during alternative macrophage polarization using next-generation sequencing methods Hungarian Scientific Research Fund (OTKA) (PD124843) \$54,000 PI: Gergely Nagy Role: Co-PI
2017-2021	The role of the transcription factor BACH1 in macrophage function and tissue homeostasis Hungarian Scientific Research Fund (OTKA) (K124298) \$170,000 Role: PI
2017-2022	RXR Rexinoids for Cancer Chemoprevention NIH- P01 CA210946 \$12,402/yr PI: Kedishvili, N Role: Co-I (5%)
2018-2022	PPARgamma as an Architectural Regulator of Gene Expression in Endocrine Signaling NIH- R01 DK115924 \$250,000/yr Role: PI (25%)
2019-2023	Impact of Heme Homeostasis on Adipocyte Function NIH-R01 DK121196-02 2018-2022 \$52,801/yr PI: Saez, E Role: Subcontract PI (25%)

Pending:

2020-2024	A Computational Study of Enhancer Target Genes in Mammalian Genomes NIH-R01 \$147,375/yr PI: Li, X Role: Subcontract PI (10%)
2020-2025	DHA-derived Resolving Production and Signaling in Tissue Repair Macrophages in Metabolic Disease NIH-R01 \$210,847/yr PI: Nagy L and Spite, M Role: PI (20%)
2020-2025	Elucidation of gene regulation in macrophages: the Heme- BACH1-HMOX1 paradigm NIH/NCI \$250,000 Role: PI (20%)
2020-2025	Impact of Heme Homeostasis on Adipocyte Function NIH-R01 \$5,000/yr PI: Walter, J Role: Subcontract PI (1%)

Completed Research Support:

1989	FEBS Youth Travel Fellowship FEBS International Summer School on the Molecular Genetics of Differentiation, West-Berlin \$1,200
1989	Research Studentship (3 months) Dept. of Pharmacology, Univ. of Texas HSC at Houston (Soros Foundation-University Medical School of Debrecen) \$1,500
1992	Medical Student Grant (Pro Cultura Foundation) Generation of tissue transglutaminase null mutant cell lines with homolog recombination \$1,800
1992	FASEB Travel Fellowship for the 1992 Summer Conference on Retinoids Saxtons River, Vermont \$500
1992	Postdoctoral Fellowship of the University of Texas-Houston, Medical School \$10,000
1997-1998	Postdoctoral Fellowship of the Howard Hughes Medical Institute \$34,000/year

- 1998-2000 Leukemia Society of America Special Fellow Award
\$38,000/year
- 1999-2003 European network to study the regulation of key metabolic processes by nuclear receptors European Union Framework Program 5 “EU-NUC-REC-NET” Research Training Network
\$216,700
PI: John Schwabe
Role: Co-PI (10%)
The goal of the project was to train young researchers on the general area of nuclear receptor research.
- 1999-2003 Chromatin activation in retinoid-induced apoptosis
Fogarty International Research Collaboration Award (FIRCA) 5 RO3 TW 01146-02
\$96,000
Role: PI (5%)
The goal of this project was to determine the role of chromatin activation in retinoic acid receptor regulated apoptosis.
- 1999-2001 Molecular mechanisms of nuclear receptor action in health and disease Boehringer Ingelheim Research Award
\$257,400
Role: PI (50%)
The goal of this project was to allow the PI to establish his own research laboratory at the University of Debrecen.
- 1999-2000 The role of the lipid activated transcription factor PPAR in the pathogenesis of atherosclerosis Egészségügyi Tudományos Tanács (ETT) (Hungarian Ministry of Health) T-07 254/99
\$6,800
Role: PI (1%)
The role of the project was to carry out gene expression analyses on atherosclerosis linked macrophages and identify PPAR-regulated transcriptional events.
- 2000-2001 Hormonal regulation of nuclear receptor co-repressor interactions Royal Society (UK)
\$15,000
PI/Project leader: Schwabe, J
Role: Co-PI (2%)
The goal of this project is to promote exchange between the Schwabe and Nagy laboratories.
- 2001-2004 Role for PPARgamma and LXR in the biological effects of modified LDL Hungarian Higher Education Research Fund (FKFP) 0208/2001
\$31,500
Role: PI (10%)
The goal of this project was to compare the effects of oxidatively modified LDL

on PPAR and LXR regulated transcriptional events.

2001-2004 Nuclear receptor network regulating myeloid cell differentiation
European Molecular Biology Organization (EMBO) Young Investigator Award #0246
\$76,000

Role: PI (5%)

The goal of this project was to establish an independent laboratory.

2001-2004 Role of PPAR \square : RXR heterodimers in myeloid cell differentiation and function
Hungarian Scientific Research Fund (OTKA) T034434

\$58,500

Role: PI (10%)

The goal of this project was to characterize the role of PPAR:RXR in ligand regulated transcriptional changes in myeloid cells in vitro.

2001-2005 Crosstalk between PPAR and LXR in the control of lipid metabolism
RGY021/2001-M Young Investigator Award of The Human Frontier Science Program
\$275,000

PI: Peter Tontonoz

Role: Co-I (10%)

The goal of this project was to study the interrelationship between PPAR \square and LXR signaling in macrophages in health and in vascular disease.

2001-2005 Role of PPAR γ in normal monocyte-macrophage cell function and in diseases
International Research Scholarship of the Howard Hughes Medical Institute #55000326
\$425,000

Role: PI (20%)

The goal of this project was to identify the role and targets of PPAR γ in monocyte-macrophage differentiation and function.

2002-2005 New molecular methods for the detection and monitoring of metabolic diseases: the role of nuclear Receptors
Biotechnology 2002 (Hungarian Ministry of Education)
\$200,000

Role: PI (1%)

The goal of this project was to develop molecular methods for the study and characterization of nuclear receptors in metabolic disease.

2003-2006 "Nutriceptors" Research Training Network European Union Framework Program 5
\$150,000

PI: Heinz Nau

Role: Co-I (1%)

The goal of this project was to train young researcher in research topics related to nutrient sensing nuclear receptors.

- 2005-2006 Practical Course on Advanced Methods on Gene Expression Analysis Howard Hughes Medical Institute
\$150,000
Role: PI (2%)
The goal of this project was to organize a practical course on state of the art gene expression analysis.
- 2005-2010 Role of RXR heterodimers in macrophage differentiation and function Wellcome Trust International Senior Research Fellowship #074021
\$247,200
Role: PI (20%)
The goal of this project was to identify and characterize the role of RXR heterodimeric receptors in macrophages in mice.
- 2005-2011 Role of a lipid activated transcription factor, PPARgamma in the innate responses of macrophages during pathogen infection
International Research Scholarship of the Howard Hughes Medical Institute #5500524
\$500,000
Role: PI (20%)
The goal of this project was to characterize the role of macrophage PPAR in innate immune response.
- 2006-2011 PPARγ a lipid activated transcription factor at the crossroad of lipid metabolism and inflammation International Research Scholarship of the Howard Hughes Medical Institute # 55005621
\$500,000
Role: PI (20%)
The goal of this project was to study the role of PPARgamma in macrophages in health and in disease.
- 2008-2012 Decoding nuclear hormone receptor activity using chromatin immunoprecipitation in human primary immune cells
Hungarian Scientific Research Fund (OTKA) (NK72730)
\$394,600
Role: PI (10%)
The goal of this project was to carry out systematic genome-wide localization studies to determine the role and contribution of nuclear receptors to human primary immune cell (dendritic cells, macrophages) function.
- 2009-2011 Stem cell and gene therapy research center at the University of Debrecen, Medical and Health Science Center Program project involving 10 other research groups
TAMOP-4.2.2/08/1 IKUT
\$1,650,500
Role: PI (10%)

The goal of this project was to create and operate a research program for the study and usage of stem cells and stem cell research at the University of Debrecen in basic research and also in clinical settings.

- 2009-2012 Development of the Research Center for Molecular Medicine of the University of Debrecen, Medical and Health Science Center
FP7-REGPOT-2008-1/229920 MOLMEDREX
\$1,351,700
Role: PI (5%)
The goal of this project was to upgrade the infrastructure and methodology in the Genomic and Imaging Core laboratories and link UD to its twinning partner EMBL.
- 2012-2015 System level studies on the cellular networks providing immune defense in humans
Program project involving 15 other research groups
TAMOP/4.2.2A/11/1/KONV-2012-0023, Hungarian Government DEFENSE-NET
\$3,860,000
Role: PI (20%)
The goal of this project was to create and operate a research program on the system level analysis of the immune system in basic research and also in clinical settings.
- 2012-2015 A novel mouse model for the study of PPAR γ deficiency Hungarian Scientific Research Fund (OTKA) (K100196)
\$177,500
Role: PI (5%)
The goal of this project was to develop and characterize a mouse model devoid of PPARgamma.
- 2013-2017 NR-NET: FP7-People-2013-ITN (MULTI-ITN)
Control of metabolic and inflammatory pathways by nuclear receptors.
\$518,200
PI: Iannis Talianidis
Role: Co-PI
The goal of this project is to train young scientists in research topics involving metabolism, inflammation and nuclear receptors.
- 2012-2017 The goal of this project is to delineate the interrelationship between cytokine and nuclear receptor signaling during macrophage polarization in health and disease.
MTA-DE "Lendület-Momentum" Immunogenomics Research Group
\$958,400
Role: PI (10%)
The goal of this project is to delineate the interrelationship between cytokine and nuclear receptor signaling during macrophage polarization in health and disease.
- 2013-2017 Identification of novel biomarkers for the development and progression of atherosclerosis Visegrad-Taiwan Collaborative Grant

\$106,200

PI: Johannes Bluijssen Role: Co-I (1%)

The goal of this project is to identify biomarkers in vascular disease involving smooth muscle cells, dendritic cells and macrophages.

2013-2017 The role of PRMT8 in neuronal development

Hungarian Brain Research Program (NAP) KTIA_13_NAP-A-I/9.

\$89,400

Role: PI (2%)

The goal of this project is to identify the in vivo function of a protein-modifying PRMT8.

2015-2017 The role of macrophage PPARgamma in muscle regeneration

Hungarian Scientific Research Fund (OTKA) (K111941)

\$118,000

Role: PI (5%)

The goal of this project is to identify and characterize the role of PPARgamma during steril inflammation in skeletal muscle.

CORPORATE SPONSORED RESEARCH AGREEMENTS AND GRANTS (direct cost):**Total amount (2000-): \$5,286,300 (direct cost)**

2001-2002 Development of quantitative PCR assays Biorex Rt., Hungary

\$7,000

Role: PI (1%)

The goal of this project was to develop quantitative PCR assay for toxicology studies in the rat.

2001-2003 Identification of disease relevant target and biomarker candidates by

comprehensive interrogation of the genome and proteome in COPD

Pfizer Global Research, Fresnes Laboratories, France

\$164,000

Role: PI (5%)

The goal of this project was to develop a biobank and collect clinical samples for biomarker discovery in COPD.

2003-2007 Discovery and validation of biomarkers and drug targets for COPD: a clinical

genomics, proteomics and genetics collaboration with the University of Debrecen
Pfizer Global Research, Sandwitch, UK

\$385,000

The goal of this project was to develop a biobanking project for expression analysis of lung alveolar macrophages from COPD patients.

Role: PI (10%)

- 2004 Analysis of GBP-15 in PPAR regulated processes
N-GENE Research and Development Ltd, Budapest, Hungary
\$1500
Role: PI (1%)
The goal of this project was to assess PPAR activation of a compound in transient transfection assays.
- 2005-2007 Comprehensive pilot and biomarker early validation studies for COPD GPCR target and biomarker discovery
Biosystems International SAS, France
\$205,000
Role: PI (5%)
The goal of this project was to expression profile lung alveolar macrophages from COPD patients to find biomarkers of disease stratification and progression.
- 2006-2007 Global gene expression analysis on rat liver
Richter Gedeon Ltd, Hungary 0980699
\$23,800
Role: PI (5%)
The goal of this project was to identify gene expression markers of altered cholesterol and fatty acid metabolism in rats on novel antipsychotic drugs.
- 2008-2012 Biobank based biomarker discovery in schizophrenia SCHIZO-08- NKFP
\$4,500,000
Role: PI (10%)
The goal of this project was to identify biomarkers for the usage of novel antipsychotic drugs, with a particular emphasis on metabolic complications.
- 2014-2017 Development of biosimilar antibodies VKSZ_12-1-2013-0001 (VKSZ K+F)
\$62,000
Role: PI (5%)
The goal of this project is to provide genomic methods to the quality assurance of biosimilar antibody production.

TEACHING AND EDUCATION:

Medical Biochemistry for Medical Students (Fall and Spring semester, weekly group discussions, Hungarian and English language class) (University of Debrecen 1995-2013)

Gene expression regulation lectures in Medical Biochemistry Course for Medical Students (Spring Semester 12 lectures, Hungarian and English language class) (University of Debrecen 1995-2016)

Gene expression regulation seminars in Biochemistry course for Medical Students (Spring Semester 15 seminars, Hungarian class) (University of Debrecen 2008-2013)

Molecular Medicine Course for Medical Students and Post-graduate Students (Fall semester, 20 lectures, Hungarian and English language class) (University of Debrecen 1999-2014)

Molecular Biology for Medical Students and Dentistry Students (Spring Semester 10 lectures, Hungarian and English language class) (University of Debrecen 2000-2006)

Biochemistry for Medical Students and Dentistry Students (Spring Semester 6 lectures, Hungarian and English language class) (University of Debrecen 2000-2004)

Biochemistry for Medical Students and Dentistry Students (Spring Semester 12 lectures, Hungarian and English language class) (University of Debrecen 2005-2006)

Molecular mechanism of diseases concerning large populations elective course, Course leader (Fall semester 12 lectures, Hungarian and English language class) (University of Debrecen 2007-2014)

Biochemistry for Pharmacy students for Pharmacology Students (Spring Semester 3 lectures, Hungarian language class) (University of Debrecen 2000-2004)

Cell and Organ biochemistry for Molecular Biology Students (Spring Semester 4 lectures, Hungarian language class) (University of Debrecen 2008-2011-2013)

TRAINEES:

Graduate students trained (Year of PhD obtained)

Szilvia Benkő	(2004)
Attila Szántó, M.D.	(2005)
Bálint L. Bálint, M.D	(2006)
Lajos Széles	(2009)
Dániel Törőcsik, M.D.	(2010)
Szilárd Póliska	(2011)
Bertalan Meskó, M.D.	(2012)
Peter Brázda	(2014)
Bence Daniel	(2014)
Zoltán Simándi	(2015)
Melinda Oros	(2016)
Anikó Dózsa, M.D.	(2016)
Andreas Patsalos	(2017)
Zsolt Czimmerer	(2018)
Nikolaos Giannakis	(expected 2019)
Adrienn Gyöngyösi	(2019)
Attila Horváth (50%)	(2019)

POST-DOCTORAL FELLOW TRAINEES:

At University of Debrecen:

István Szatmári, Ph.D.	(2001-2007)
Ralph Ruehl, Rer.nat.	(2003-2006)
Attila Szántó, M.D., Ph.D	(2005-2009)
Britt Nakken, Ph.D	(2005-2008)
Bálint L. Bálint, M.D., Ph.D	(2006-2013)
Tamás Röszer, Ph.D.	(2005- 2009)
Endre Barta, Ph.D.	(2009-2014)

Zsuzsanna Nagy, Ph.D.	(2010-2014)
Tamás Varga, Ph.D.	(2007-2017)
Frank Batista, Ph.D.	(2014-2017)
Petros Tzerpos, Ph.D.	(2015-)
Gergely Nagy, Ph.D.	(2017-)
Zsolt Czimmerer, Ph.D.	(2018-)

At Sanford Burnham Prebys Medical Discovery Institute:

Bence Daniel, Ph.D.	(2014-2018)
Zoltan Simandi, Ph.D.	(2014-2018)
Andreas Patsalos	(2017-2018)

At Johns Hopkins School of Medicine:

Bence Daniel, Ph.D.	(2018-2019)
Andreas Patsalos, Ph.D.	(2018-)
László Halász, Ph.D.	(2019-)

Sabbatical visitors hosted at the University of Debrecen:

Professor Gerhard Spiteller (University of Bayreuth)
 Sponsored by Humboldt Stipendium
 (2004-2005)

Sabbatical visitors hosted at the Sanford Burnham Prebys Medical Discovery Institute:

Dr. György Vámosi Senior Research Fellow/Associate Professor at University of Debrecen, Hungary
 Sponsored by Fulbright Scholarship and Rosztoczy Foundation (2014-15)

Interns Trained at Sanford Burnham Prebys Medical Discovery Institute:**2015:**

Peter G. Nagy	(Duke University)
Patrick Beane	(Rollins College)
Brad Prast	(University of Central Florida)
Stephanie Barthel	(University of Munich, Germany)
Isabella DeLuca	(University of Munich, Germany)

2016:

Vanesse Klee-Vincent	(University of Central Florida)
Priscila White	(University of Central Florida)
Heja Aga	(University of Munich)
Tatiana Sieler	(University of Central Florida)
Ines Telahr	(University of Munich)

2017:

Matine Hajian	(University of Munich)
Isabella Restrepo	(University of Central Florida)

PUBLICATIONS:

Total citations: 19859 h-index: 54 i10-index: 113 (Google Scholar)

ORCID: <http://orcid.org/0000-0001-6653-2155>

Publications: (PUBMED MyBibliography)

<http://www.ncbi.nlm.nih.gov/sites/myncbi/laaszlo.nagy.1/bibliography/47333053/public/?sort=date&direction=ascending>

Publications/Citations: (GOOGLE

Scholar)<https://scholar.google.com/citations?user=z8h9V1wAAAAJ&hl=en&oi=ao>

Publications/Citations: (Researcher ID)

<http://www.researcherid.com/rid/A-3814-2008>

ORIGINAL ARTICLES:**1991**

1. Fesus, L., **Nagy, L.**, Basilion,J. and Davies,P.J.A.: Retinoic Acid Receptor Transcripts in Human Umbilical Vein Endothelial Cells. *Biochem. Biophys. Res. Comm.* 1991; 179:32-38.

1995

2. **Nagy, L.**, Thomazy, V.A., Shipley, G.L., Fesus, L., Lamph, W., Heyman, R.A., Chandraratna, R.A.S. and Davies, P.J.A.: Activation of Retinoid X Receptors Induces Apoptosis in HL-60 Cell Lines. *Molecular and Cellular Biology* 1995; 15:3540-3551. PMCID: PMC230591.

1996

3. **Nagy, L.**, Saydak, M.M., Shipley, N., Lu, S., Basilion, J.P., Yan, Z-H., Syka, P., Chandraratna, R.A.S., Stein, J.P., Heyman, R.A. and Davies, P.J.A.: Identification and Characterization of a Versatile Retinoid Response Element (Retinoic Acid Response Element/Retinoid X Receptor Response Element) in the Mouse Tissue Transglutaminase Gene Promoter. *Journal of Biological Chemistry* 1996; 271 (8): 4355-4365.
4. **Nagy, L.**, Thomazy, V.A., Heyman, R.A., Chandraratna, R.A.S. and Davies, P.J.A: Retinoid-regulated Expression of BCL-2 and Tissue Transglutaminase During Differentiation and Apoptosis of Human Myeloid Leukemia (HL-60) Cells. *Leukemia Research* 1996; 20(6):499-505.

5. Yan,H- Z., Noonan, S., **Nagy, L.**, Davies, P.J.A. and Stein, J.P.: Retinoic acid induction of the tissue transglutaminase promoter is mediated by a novel response element. *Molecular and Cellular Endocrinology* 1996;120: 203-212.

1997

6. **Nagy, L.**, Kao, H-Y., Chakravarti, D., Lin, R.J., Hassig, C.A., Ayer, D.E., Schreiber, S.L. and Evans, R.M.: Nuclear receptor repression mediated by a complex containing SMRT, mSin3A and histone deacetylase. *Cell* 1997; 89(3):373-380.
7. Balajthy, Z., Kedei, N., **Nagy, L.**, Davies P.J.A and Fesus., L.: Lack of induction of tissue transglutaminase but activation of the preexisting enzyme in c-myc-induced apoptosis of CHO cells. *Biochem. Biophys. Res. Comm* 1997; 236:280-284.
8. Chen, H., Lin, R., Schiltz, L., Chakravarti, D., Nash, A., **Nagy, L.**, Privalsky, M.L., Nakatani, Y. and Evans, R.M.: Nuclear receptor co-activator ACTR is a novel histone acetyltransferase and forms a multimeric activation complex with P/CAF and CBP/p300. *Cell* 1997; 90(3):569-580.

9. **Nagy, L.**, Thomazy, A.V., Saydak, M.M., Stein, J.P. and Davies, P.J.A.: The promoter of the mouse tissue transglutaminase gene directs tissue-specific, retinoid regulated and apoptosis linked expression. *Cell Death and Differentiation* 1997; 4(7):534-547.

1998

10. Kuncio, GS., Tsyganskaya, M., Zhu, J., Liu, S-L., **Nagy, L.**, Thomazy, VA., Davies, PJA. And Zern, MA: TNF- α modulates expression of the tissue transglutaminase gene in liver cells. *American Journal of Physiology* 1998; 37:G240-245.

11. **Nagy, L.**, Thomazy, V. A, and Davies, P.J.A.: A transgenic mouse model for the study of apoptosis during limb development. *Cell Death and Differentiation* 1998; 5(1):126.

12. Lin, J.R., **Nagy, L.**, Satoshi, I., Shao, W., Miller, W., and Evans, R.M.: Role of the histone deacetylase complex in Acute Promyelocytic Leukemia. *Nature* 1998; 391: 811-814.

13. **Nagy, L.**, Tontonoz, P., Alvarez, J.G.A., Chen, H. and Evans, R.M.: Oxidized LDL regulates macrophage gene expression through ligand activation of PPAR γ . *Cell* 1998; 93(2):229-240.

14. Tontonoz, P.* **Nagy, L.***, Alvarez, JGA., Thomazy, VA. and Evans, RM.: PPAR γ promotes monocyte/macrophage differentiation and uptake of oxidized LDL. *Cell* 1998; 93(2):241-252

* shared first authorship.

1999

15. Dupe, V., Ghyselinck, N.B., Thomazy, V., **Nagy, L.**, Davies, P.J.A., Chambon, P. and Mark, M.: Essential roles of retinoic acid signaling in interdigital apoptosis and control of BMP-7 expression in mouse autopods. *Developmental Biology* 1999; 208:30-43.

16. **Nagy, L.**, Kao H-Y., Love, JD, , Li, C., Banayo, E., Gooch, JT., Chatterjee, VKK, Evans, RM and Schwabe, JWR: Mechanism of co-repressor binding and release from nuclear hormone receptors. *Genes and Development* 1999; 13(24):3209-3216.

2000

17. Lee, H, Shi, W, Tontonoz, P, Wang, S, Subbanagounder, G., Hedrick, L., Hama, S., Borromeo,C., Evans, RM., Berliner, JA and **Nagy, L.**: A role for PPAR α in oxidized phospholipid induced synthesis of MCP-1 and IL-8 by endothelial cells. *Circulation Research* 2000; 87: 516-521.

18. Szegezdi, E, Szondy, Z, Friis, R, **Nagy, L.**, Thomazy, VA, Davies, PJA and Fesus, L.: Divergent signaling pathways regulate the promoter of tissue transglutaminase. *Cell Death and Differentiation* 2000; 7(12):1225-1233.

2001

19. Chawla, A., Barak, Y., **Nagy, L.**, Liao, D. Tontonoz, P., and Evans, RM: PPAR γ dependent and independent effects on macrophage gene expression in lipid metabolism and inflammation. *Nature Medicine* 2001;7(1):48-53.

20. Ahuja, HS, Crombie, DL, Boehm, M, Leibowitz, MD, Heyman, RA, Depre, C, **Nagy, L.**, Tontonoz, P and Davies, P.J.A.: Tissue specific effects of RXR and PPAR-gamma ligands on metabolic gene expression in diabetic rodents. *Molecular Pharmacology* 2001; 59 (4) 765-773.

21. Chawla, A., Boisvert, W.A., Lee, C-H., Laffitte, B., Barak, Y., Joseph, S.B., **Nagy, L.**, Liao, D., Edwards, P.A., Curtiss, L.K., Evans, R.M., and Tontonoz, P.: A PPAR γ -LXR-ABCA1 pathway in macrophages is involved in cholesterol efflux and atherogenesis. *Molecular Cell* 2001; 7:161-171.

2002

22. Love, J.D., Gooch, J.T., Benko, S., **Nagy, L.**, Chatterjee, V.K.K., Evans, R.M. and Schwabe, J.W.R.: The structural basis for the specificity of retinoid-X-receptor selective agonists: new insights into the role of helix H12. *Journal of Biological Chemistry* 2002; 277(13):11385-11391.

2003

23. Benko S., Love, J.D., Beládi M., Schwabe, J.W.R.S. and **Nagy, L.**: Molecular determinants of the balance between co-repressor and coactivator recruitment to the retinoic acid receptor. *Journal of Biological Chemistry* 2003; 278:43797-43806.

2004

24. Szatmari, I., Gogolak, P., Im S., J., Dezso, B., Rajnavolgyi, E. and **Nagy, L.**: Activation of PPAR γ specifies a dendritic cell subtype capable of enhanced induction of iNKT cell expansion. *Immunity* 2004; 21:95-106.

25. Szanto, A., Benko, S., Szatmari, I., Balint, L.B., Furtos, I., Rühl, R., Molnar, S., Csiba, L., Garuti, R., Calandra, S., Larsson, H., Diczfalusy, U. and **Nagy, L.**: Transcriptional regulation of human CYP27 integrates retinoid, PPAR and LXR signaling. *Molecular and Cellular Biology* 2004; 24(18):8154-8166. **Featured on cover** PMCID: PMC515045

2005

26. Szanto, A and **Nagy, L.**: Retinoids potentiate PPAR γ action in differentiation, gene expression and lipid metabolic processes in developing myeloid cells. *Molecular Pharmacology* 2005; 67(6):1935-1943.

27. Balint L. B., Szanto A., Madi A., Bauer U-M., Gabor P., Benko, S., Puskás, G., L., Davies P.J.A. and **Nagy, L.**: Arginine methylation provides epigenetic transcription memory for retinoid-induced differentiation in myeloid cells. *Molecular and Cellular Biology* 2005; 25:5648-5663. PMCID: PMC1156990

28. Balint L. B., Gabor, P. and **Nagy, L.**: Genome-wide localization of histone 4 arginine3 methylation in a differentiation primed myeloid leukemia cell line. *Immunobiology* 2005; 210:141-152.

29. Kappelmayer, J., Simon, A., Katona, E., Szanto, A., **Nagy, L.**, Kiss, A., Kiss, Cs. and Muszbek, L.: Coagulation factor XIII-A-A flow cytometric intracellular marker in the classification of acute myeloid leukemias. *Thrombosis and Haemostasis* 2005; 94(2):454-459.

30. Torocsik, D., Bardos, H., **Nagy, L.** and Adany, R.: Identification of Factor XIII-A as a marker of alternative macrophage activation. *Cellular and Molecular Life Sciences* 2005; 62:2132-2139.

31. Djazayeri, K., Szilvassy, Z., Peit, B., Nemeth, J., **Nagy, L.**, Kiss, A., Szabo, B. and Benko, I.,: Accelerated recovery of 5-fluorouracil-damaged bone marrow after rosiglitazone treatment. *European Journal of Pharmacology* 2005; 522:122-129.

2006

32. Réthi, B., Gogolák, P., Szatmári, I., Veres, A., **Nagy, L.**, Rajnavölgyi, E., Terhorst, C. and Lányi, A.: SLAM/SLAM interactions inhibit CD40 induced production of inflammatorycytokine in monocyte derived dendritic cells. *Blood* 2006; 107: 2821-2829. PMCID: PMC1895370
33. Szekvolgyi, L., Balint L.,B., Imre, L., Goda, K., Szabo, M., **Nagy, L.** and Szabo, G.: ChIP on-beads: flow-cytometric evaluation of chromatin immunoprecipitation. *Cytometry* 2006; 69A: 1086-1091.
34. Szatmari, I., Vámosi, G., Brazda, P., Balint L. B., Benko, S., Széles, L., Jeney, V., Özvegy-Laczka, G., Szántó, A., Barta, E., Balla, J., Sarkadi, B. and **Nagy, L.**: PPAR γ regulated ABCG2 expression confers cytoprotection to human dendritic cells. *Journal of Biological Chemistry* 2006; 281:23812-23823.
35. Szatmari, I., Pap, A., Ruehl, R., Ma, J.X., Illarionov, P.A., Besra, G.S., Rajnavolgyi, E., Dezso, B. and **Nagy, L.**: PPAR γ controls CD1d expression by turning on retinoic acid synthesis in developing human dendritic cells. *Journal of Experimental Medicine* 2006; 203:2351-2362. PMCID: PMC2118109.
36. Agostini, M., Schoenmakers, E., Mitchell, C.S., Szatmari, I., Savage, D., Smith, A.G., Rajanayagam, O., Semple, R., Luan, J., L Bath, R.K., Zalin, A.N., Labib, M., Kumar, S., Simpson, H., Blom, D., Marais, D., Schwabe, J.W.R., Baroso, I., Trembath, R., Wareham, N., **Nagy, L.**, Gurnell, M., O'Rahilly, S. and Chatterjee, V.K.K.: Non-DNA binding, dominant-negative, human PPAR γ mutations cause lipodystrophic insulin resistance. *Cell Metabolism* 2006; 4:303-311. PMCID: PMC1821092

2007

37. Gogolak, P., Rethi, B., Szatmari, I., Lanyi, A., Dezso, B., **Nagy, L.**, Rajnavolgyi, E.: Differentiation of CD1a- and CD1a+ monocyte-derived dendritic cells is biased by lipid environment and PPAR γ . *Blood* 2007; 109:643-652.
38. Szekvolgyi, L., Rakosy, Z., Balint L., B., Kokai, E., Imre, L., Vereb, G., Bacso, Z., Goda, K., Balazs, M., Dombradi, V., **Nagy, L.** and Szabo, G.: Ribonucleoprotein-masked nicks at 50 kbp intervals in the eukaryotic genomic DNA. *Proc. Natl. Acad. Sci. USA* 2007; 104:14964-14969. PMCID: PMC1986596
39. Szatmari, I., Töröcsik, D., Agostini, M., Nagy, T., Gurnell, M., Barta, E., Chatterjee, K. and **Nagy, L.**: PPAR γ regulates the function of human dendritic cells primarily by altering lipid metabolism. *Blood* 2007; 110:3271-3280.
40. Csanky, E., Olivova, P., Rajnavolgyi, E., Hempel, W., Tardieu, N., Katalin, E. T., Jullien, A., Malderez-Bloes, C., Kuras, M., Duval, M. X., **Nagy, L.**, Scholtz, B., Hancock, W., Karger, B., Guttman, A., Takacs, L.: Monoclonal antibody proteomics: discovery and prevalidation of chronic obstructive pulmonary disease biomarkers in a single step. *Electrophoresis* 2007; 28(23): 4401-4407.

2008

41. Seres, L., Cserepes, J., Elkind, N.B., Töröcsik, D., **Nagy, L.**, Sarkadi, B. and Homolya, L.: Functional ABCG1 expression induces apoptosis in macrophages and other cell types. *BBA-Biomembranes* 2008; 1778(10): 2378-2387.
42. Itoh, T., Fairall, L. Amin, A., Inaba, Y., Szanto, A., Balint, L.B., **Nagy, L.**, Yamamoto, K. and Schwabe, J.W.R.: Structural basis for the activation of PPAR γ by oxidised fatty acids. *Nature Structural and Molecular Biology* 2008; 15:924-931. PMCID:PMC2939985.

43. Dobrosi, N., Tóth, B.I., Kósa, A., Géczy, T, Nagy, G., Dózsa, A., Kovács, L., **Nagy, L.**, Zouboulis, C.C., Paus,P and Bíró, T.: Endocannabinoids enhance lipid synthesis and apoptosis of human sebocytes via cannabinoid receptor-2-mediated signaling. *FASEB Journal* 2008; 22:1-11.

2009

44. Széles, L., Keresztes, G., Töröcsik, D., Balajthy, Z., Krenács, L., Póliska, S., Steinmeyer, A., Zuegel, A., Pruenster, M., Rot, A. and **Nagy, L.**: 1,25-dihydroxyvitaminD₃ is an autonomous regulator of the transcriptional changes leading to a tolerogenic dendritic cell phenotype. *Journal of Immunology* 2009; 182(4):2074-2083.

45. Toth, B.I., Geczy, T, Griger, Z, Dozsa, A, Seltmann, H, Kovacs, L., **Nagy, L.**, Zouboulis, C.C., Paus, R and Biro, T.: Transient Receptor Potential Vannilloid-1 signaling as a regulator of human sebaceous gland biology. *Journal of Investigative Dermatology* 2009; 129:329-339.

46. Almeida, P.E., Silva, A.R., Monteiro, C.M., Töröcsik, D., D'Ávila, H, Dezsö B., Magalhães, K.G, Castro-Faria-Neto, H.C, **Nagy L.**, and Bozza , P.T.: Mycobacterium bovis Bacillus Calmette-Guerin infection induces TLR2-dependent PPAR γ expression and activation: functions in inflammation, lipid metabolism and pathogenesis. *Journal of Immunology* 2009; 183:1337-1345. NIHMS253718.

2010

47. Töröcsik, D., Baráth, M., Benkő, S., Széles, L., Dezső, B., Póliska, S., Hegyi, Z., Homolya, L., Szatmári, I., Lányi A., and **Nagy, L.**: Activation of LXR sensitizes human dendritic cells to inflammatory stimuli. *Journal of Immunology* 2010; 184:5456-5465.

48. Mesko, B., Poliska, S., Szegedi, A., Szekanecz, Z., Palatka, K., Papp, M. and **Nagy, L.**: Peripheral blood gene expression patterns discriminate among chronic inflammatory diseases and healthy controls and identify novel targets. *BMC Medical Genomics* 2010; 3:15. PMCID:PMC2874757. **Highly accessed**

49. Simandi, Z., Balint L.B., Poliska, S., Ruhl, R and **Nagy, L.**: Activation of retinoic acid receptor signaling coordinates lineage commitment of spontaneously differentiating mouse embryonic stem cells in embryoid bodies. *FEBS Letters* 2010; 584:3123-3130.

50. Szeles, L., Poliska, S., Nagy, G., Szatmari, I., Szanto, A., Pap, A., Lindstedt, M., Santegoets, S., Ruehl, R., Dezso, B. and **Nagy, L.**: Research resource: Transcriptome profiling of genes regulated by RXR and its permissive and nonpermissive partners in differentiating monocyte-derived dendritic cells. *Molecular Endocrinology* 2010; 24(11):2218-2231. PMCID:PMC3051201.

51. Töröcsik, D., Szeles, L. Paragh Jr, G., Rakosy, Z., Bardos, H., **Nagy, L.**, Balazs, M., Inbal, A. and Ádány, R.: Factor XIII-A is involved in the regulation of gene expression in alternatively activated human macrophages. *Thrombosis and Haemostasis* 2010; 104:709-717.

52. Szanto, A., Balint L. B., , Nagy, Z., Barta, E., Dezso, B., Pap, A., Szeles, L., Poliska, S., Oros, M., Evans, R.M., Barak, Y., Schwabe, J. and **Nagy, L.**: STAT6 transcription factor is a facilitator of the nuclear receptor PPAR γ -regulated gene expression in macrophages and dendritic cells. *Immunity* 2010; 33: 699-712.PMCID:PMC3052437.

53. Penyige, A., Poliska, S., Csanyi, E., Scholtz, B., Dezso, B., Schmelczer, I., Kilty, I., Takacs, L. and **Nagy, L.**: Analyses of association between PPAR γ and EPHX1 polymorphisms and susceptibility to COPD in a Hungarian cohort, a case-control study. *BMC Medical Genetics* 2010; 11:152.

PMCID:PMC2988760. Highly accessed

54. Inczedy-Farkas, G., Benkovits, J., Balogh, N., Almos, P., Scholtz, B., Zahuczky, G., Torok, Z., Nagy, K., Rethelyi, J., Makkos, Z., Kassai-Farkas, A., Egerhazi, A., Tuzko, J., Janka, Z., Bitter, I., Nemeth, G., **Nagy, L.**, Molnar, M.J.: Magyar szkizofrénia-biobank a szkizofréniakutatás és a személyre szabott orvoslás szolgálatában. *Orvosi Hetilap* 2010; 151: (35) pp. 1403-1408. (in Hungarian)

2011

55. Oberoi, J., Fairall, L., Watson, P., Yang, J-C., Czimmerer, Z., Kampmann, T., Goult, B., Greenwood, J., Gooch, J., Kallenberger, B., **Nagy, L.**, Neuhaus, D. and Schwabe, J.W.R.: Structural basis for the assembly of the SMRT/NCoR core transcriptional repression machinery. *Nature Structural and Molecular Biology* 2011; 18: 177–184. PMCID:PMC3232451.

56. Poliska, S., Csanyi, E., Szanto, A., Szatmari, I., Mesko, B., Szeles, L., Dezso, B., Scholtz, B., Podani, J., Kilty, I., Takacs, L. and **Nagy, L.**: COPD-specific gene expression signatures of alveolar macrophages and also peripheral blood monocytes overlap and correlate with lung function. *Respiration* 2011; 81:499-510.

57. Brazda, P., Szekeres, T., Bravics, B., Tóth, K., Vámosi, G., and **Nagy, L.**: Live cell fluorescence correlation spectroscopy dissects the role of coregulator exchange and chromatin binding in retinoic acid receptor (RAR) mobility. *Journal of Cell Science* 2011; 124(21) 3631-3642. PMCID:PMC3215574.

58. Nakken, B., Varga, T., Szatmari, I., Szeles, L., Gyongyosi, A., Illarionov, P., Dezso, B., Gogolak, P., Rajnavolgyi, E. and **Nagy, L.**: PPAR γ -regulated Cathepsin D is required for lipid antigen presentation by dendritic cells. *Journal of Immunology* 2011; 187:240-247.

2012

59. Tsakiris, I., Torocsik, D., Gyongyosi, A., Dozsa, A., Szatmari, A., Szanto, A., Soos, G., Nemes, Z., Igali, L., Marton, I., Takats, Z., **Nagy, L.**, and Dezso, B.: Carboxypeptidase-M is regulated by lipids and CSFs in macrophages and dendritic cells and expressed selectively in tissue granulomas and foam cells. *Laboratory Investigation* 2012; 92(3):345-351. PMCID:PMC3290762.

60. Poliska, S., Penyige, A., Lakatos, P.L. the Hungarian IBD Study Group, Papp, M., Palatka, K., Lakatos, L., Molnar, T. and **Nagy, L.**: Association of Peroxisome Proliferator-activated Receptor Gamma Polymorphisms to Inflammatory Bowel Disease in a Hungarian cohort. *Inflammatory Bowel Disease* 2012; 18(3):472-479.

61. Mesko,B., Poliska, S., Szamosi, S., Szekanecz, Z., Podani, J., Varadi, C., Guttman, A. and **Nagy, L.**: Peripheral blood gene expression and IgG glycosylation profiles as markers of tocilizumab treatment in rheumatoid arthritis. *Journal of Rheumatology* 2012; (39)5:916-928.

62. Oros, M., Zavaczki, E., Vadasz, C., Jeney, V., Tosaki, A., Lekli, I., Balla, G., **Nagy, L.** and Balla, J.: Ethanol increases phosphate-mediated mineralization and osteoblastic transformation of vascular smooth muscle cells. *Journal of Cellular and Molecular Medicine* 2012; 16(9):2219-2226. PMCID: PMC3822991

63. Czimmerer, Z., Varga, T., Poliska, S., Nemet, I., Szanto, A. and **Nagy, L.**: Identification of novel markers of alternative activation and potential endogenous PPAR γ ligand production mechanisms in human IL-4 stimulated differentiating macrophages. *Immunobiology* 2012; 217: 1301-1314.

64. Kotlinowski, J., Grochot-Przeczek, A., Kozakowska, M., Pilecki, B., Zuba-Surma, E., Derlacz, R., Pap, A., **Nagy, L.**, Dulak, J., Jozkowicz, A.: PPAR-gamma heterozygosity does not impair EPC mobilization. *Vascular Pharmacology* 2012; 56: (5-6) 347-348.

2013

65. Szénási, T., Kénesi, E., Nagy,A., Molnár,A., Bálint, B.,L., Zvara,A., Csabai, Z., Deák, F., Boros Oláh, B., Mátés,L., **Nagy,L.**, Puskás, G.L., Kiss, I.,: Hmgb1 can facilitate activation of the matrilin-1 gene promoter by Sox9 and L-Sox5/Sox6 in early steps of chondrogenesis. *BBA- Gene Regulatory Mechanisms* 2013; 1829(10):1075-1091.

66. Czimmerer, Z., Hulvely, J., Simandi, Z., Varallyay, E., Havelda, Z., Szabo, E., Varga, A., Dezso, B., Balogh, M., Horvath, B., Balint Domokos, B., Torok, Z., **Nagy, L.**, and Balint,, B.L.: A versatile method to design stem-loop primer-based quantitative PCR assays for detecting small regulatory RNA molecules. *PLOS One* 2013; 8(1) e55168. PMCID:PMC3561390.

67. Nagy, Z.S, Ross, J, Rodriguez, G., Balint L. B., Szeles, L., **Nagy, L.** and Kirken, R.A.: Genome wide mapping reveals PDE4B as an IL-2 induced STAT5 target gene in activated human PBMCs and lymphoid cancer cells. *PLOS One* 2013; 8(2) e57326. PMCID:PMC3581501.

68. Nagy, Z., Czimmerer, Z. and **Nagy, L.**: Pro-inflammatory cytokines negatively regulate PPAR γ mediated gene expression in both human and murine macrophages via multiple mechanisms. *Immunobiology* 2013; 218(11): 1336-1344.

69. Mesko, B., Poliska, S., Váncsa, A., Szekanecz, Z., Palatka, K., Hollo, Z., Horvath, A., Steiner, L., Zahuczky, G., Podani, J., and **Nagy, L.**: Peripheral blood derived gene panels predict response to infliximab in rheumatoid arthritis and Crohn's disease. *Genome Medicine* 2013; 5:59 **Featured on cover, Highly accessed** PMCID: PMC4064310

70. Nagy, G., Daniel, B., Jonas, D., **Nagy, L.** and Barta, E.: A novel method to predict regulatory regions based on histone mark landscapes in macrophages. *Immunobiology* 2013; 218(11): 1416-1427.

71. Gyongyosi, A., Szatmari, I., Pap, A., Dezso, B., Pos, Z., Szeles, L., Varga, T. and **Nagy, L.**: RDH10, RALDH2 and CRABP2 are required components of PPAR γ -directed all-trans-retinoic acid synthesis and signaling in human dendritic cells. *Journal of Lipid Research* 2013; 54(9):2458-2474. PMCID: PMC3735943.

72. Varga, T., Mounier, R., Gogolak, P., Poliska, S., Chazaud, B. and **Nagy L.**: Tissue LyC6-macrophages are generated in the absence of circulating LyC6- monocytes and Nur77 in a model of muscle regeneration. *Journal of Immunology* 2013, 191: 5695-5701

73. Brignull, L., Czimmerer, Z., Saidi, H., Daniel, B., Villela, I., Bartlett, N., Johnston, S., Meira, L., **Nagy, L.**[#], Nohturfft, A[#]: Reprogramming of lysosomal gene expression by interleukin-4 and stat6. *BMC Genomics* 2013 14:853 doi: 10.1186/1471-2164-14-853 PMCID: PMC3880092.

shared senior authorship

2014

74. Brazda, P., Krieger, J., Daniel, B., Jonas, D., Szekeres T., Langowski, J., Toth, K., **Nagy, L.**^{\$} and Vamosi, G.,: Ligand binding shifts highly mobile RXR to chromatin-bound state in a coactivator-dependent manner as revealed by single cell imaging. *Molecular and Cellular Biology* 34(7):1234-1245 (2014) doi:10.1128/MCB.01097-13 PMCID:PMC3993562 ^{\$} Corresponding and co-senior author.

75. Dozsa, A., Dezso, B., Toth, B., Bacsi, A., Poliska, S., Camera, E., Picardo, M., Zouboulis, C. C., Bíró, T., Schmitz, G., Liebisch, G., Rühl, R., Remenyik, E. and **Nagy, L.**: PPAR γ -mediated and arachidonic acid-dependent signaling is involved in differentiation and lipid production of human sebocytes. *Journal of Investigative Dermatology* 134:910-920 (2014) doi 10.1038/jid.2013.413
76. Cuaranta-Monroy, I., Simandi, Z., Kolostyak, Z., Doan Xuan Quang Minh, Szilard Poliska, S., Bacso, Z. and **Nagy, L.** Highly efficient differentiation of embryonic stem cells into adipocytes by ascorbic acid *Stem Cell Research* 13:88-97 (2014)
77. Daniel, B., Nagy, G., Hah, H., Horvath, A., Czimmerer, Z., Poliska, S., Gyuris, T., Keirsse, J., Gysemans, C., Ginderachter, J., Balint, B.L., Evans, R.M., Barta, E. and **Nagy, L.** The Active Enhancer Network Operated by Liganded RXR Supports Angiogenic Activity in Macrophages *Genes and Development* 28:1562-1577 (2014) PMCID: PMC4102764 *Featured on cover*
78. Kotlinowski, J., Grochot-Przeczek, A., Taha, H., Kozakowska, M., Pilecki, B., Skrzypek, K., Bartelik, A., Derlacz, R., Horrevoets, A., Pap, A., **Nagy, L.**, Dulak, J., Jozkowicz, A., PPAR γ activation but not PPAR γ haplodeficiency affects proangiogenic potential of endothelial cells and bone marrow-derived progenitors. *Cardiovascular Diabetology* 2014 Nov 1;13:150. doi: 10.1186/s12933-014-0150-713:150. PMCID: PMC4233236.
79. Gyongyosi, A., Docs, O., Czimmerer, Z., Orosz, L., Horvath, A., Torok, O., Mehes, G., **Nagy, L.**, Balint, B., Measuring expression levels of small regulatory RNA molecules from body fluids and formalin-fixed, paraffin-embedded samples. *Methods in Molecular Biology* 2014 1182:105-19.
80. Daniel, B., Balint, B., Nagy, ZS., **Nagy, L.** Mapping the genomic binding sites of the activated retinoid x receptor in murine bone marrow-derived macrophages using chromatin immunoprecipitation sequencing. *Methods in Molecular Biology* 2014 1204:15-24.

2015

81. Simandi, Z., Czipa, E., Horvath, A., Koszeghy, A., Bordas, C., Póliska, S., Juhász , I., Imre, L., Szabó, Sz., Dezso, B., Barta, E., Sauer, S., Karolyi, K., Kovacs, I., Hutóczky, G., Bognár, L., Klekner, A., Szucs, P., Bálint , B.L. and **Nagy, L.** PRMT1 and PRMT8 regulate retinoic acid dependent neuronal differentiation with implications to neuropathology. *Stem Cells* 2015 33:726-741.
82. Varadi, C., Hollo, Z., Poliska, S., **Nagy, L.**, Szekanecz, Z., Vancsa, A., Palatka, K., Guttman, A. Combination of IgG N-glycomics and corresponding transcriptomics data to identify anti-TNF- α treatment responders in inflammatory diseases. *Electrophoresis* 2015 36:(11-12) 1330-1335.
83. Rühl, R., Krzyżosiak, A., Niewiadomska-Cimicka, A., Rochel, N., Szeles, L., Vaz, B., Wietrzych-Schindler, M., Álvarez, S., Szklenar M., **Nagy, L.**, de Lera, A. and Kręzel, W. 9-cis-13,14-Dihydroretinoic Acid Is an Endogenous Retinoid Acting as RXR Ligand in Mice. *PLOS Genetics* 2015 11;(6) Paper e1005213. PMCID: PMC4451509.

2016

84. Dozsa, A., Mihaly, J., Dezso, B., Czizmadia, E., Keresztesy, T., Marko, L., Rühl, R., Remenyik, E., **Nagy, L.** Decreased peroxisome proliferator-activated receptor gamma level and signalling in sebaceous glands of patients with acne vulgaris. *Clinical and Experimental Dermatology* 2016 41:5, 547–551, DOI: 10.1111/ced.12794.

85. Cuaranta-Monroy, I., Simandi, Z., **Nagy, L.**: Differentiation of Adipocytes in Monolayer from Mouse Embryonic Stem Cells. *Methods in Molecular Biology – Embryonic Stem Cell Protocols* 2016; 1341: pp. 407-415.
86. Varga, T., Mounier, R., Horvath, A., Cuvellier, S., Dumont, F., Poliska, S., Ardjoune, H., Juban, G., **Nagy, L.**, Chazaud, B#. Highly dynamic transcriptional signature of distinct macrophage subsets during sterile inflammation, resolution, and tissue repair. *Journal of Immunology* 2016 196:4771-4782; doi:10.4049/jimmunol.1502490
shared senior authorship
87. Czimmerer, Z., Varga, T., Kiss, M., Ovando Vázquez, C., Doan-Xuan, Q., Rückerl, D., Tattikota, S., Yan, X., Nagy, Z., Daniel, B., Poliska, S., Horvath, A., Nagy, G., Varallyay, E., Poy, M., Allen, J., Bacso, Z., Abreu-Goodger, C., **Nagy, L.** The IL4-STAT6 signaling axis establishes a conserved microRNA signature in human and mouse macrophages regulating cell survival via miR-342-3p. *Genome Medicine* 2016; 8: 63. DOI: 10.1186/s13073-016-0315-y PMCID: PMC4886428
88. Simandi, Z., Horvath, A., Nagy, P. and **Nagy, L.**, Prediction and Validation of Gene Regulatory Elements Activated During Retinoic Acid Induced Embryonic Stem Cell Differentiation. *J. Vis. Exp.* 2016 (112), e53978, doi:10.3791/53978
89. Simandi, Z., Horvath, A., Wright,L.C., Cuaranta-Monroy,I., De Luca,I., Karolyi,K., a Sauer, S., Deleuze, J-F., Gudas L.J., Cowley, S.M., and **Nagy, L.** Oct4 acts as an integrator of pluripotency and signal-induced differentiation *Molecular Cell* 2016 63:647-661
90. Nagy, G., Czipa, E., Steiner, L., Nagy, T., Pongor, S., **Nagy, L.** and Barta, E., Motif oriented high-resolution analysis of ChIP-seq data reveals the topological order of CTCF and cohesin proteins on DNA. *BMC Genomics* 2016 17:637 DOI 10.1186/s12864-016-2940-7
91. Varga, T., Mounier, R., Patsalos,A., Gogolák, P., Peloquin, M., Horvath, A., Pap, A., Daniel, B., Nagy, G., Pintye, E., Póliska, S., Cuvellier, S., Ben Larbi, S., Sansbury, B.E., Spite, M., Brown, C.W., Chazaud, B. and **Nagy L.** Macrophage PPAR γ , a lipid activated transcription factor, controls the growth factor GDF3 and skeletal muscle regeneration *Immunity* 2016 45:1038-1051 *Highlighted in Nature Reviews in Immunology*

2017

92. Pulay, A. J., Koller, J., **Nagy, L.**, Molnar, M. J., Rethelyi, J. A szkizofrénia multilókus genetikai vizsgálata az idegfejlődés és az immunrendszer zavarának oki szerepére utal(hat). *Idegyógyászati Szemle* 2017 70:3-4. (In Hungarian)
93. Tarapcsak, S., Szaloki, G., Telbisz, A., Gyongy, Z., Matuz, K., Csosz, E., Nagy, P., Holb, I., Ruhl, R., **Nagy, L.**, Szabo, G., Goda, K. Interactions of retinoids with the ABC transporters P-glycoprotein and Breast Cancer Resistance Protein. *Scientific Reports* 2017 Feb 1;7:41376 doi:10.1038/srep41376.
94. Bermudez, B., Dahl, T.B., Medina, I., Groeneweg, M., Holm, S., Montserrat-de la Paz, S., Rousch, M., Otten, J., Herias, V., Varela, L.M., Ranheim, T., Yndestad, A., Ortega-Gomez, A., Abia, R., **Nagy, L.**, Aukrust, P., Muriana, F., Halvorsen, B., and Biessen, E. Leukocyte Overexpression of Intracellular NAMPT Attenuates Atherosclerosis by Regulating PPAR γ -Dependent Monocyte Differentiation and Function. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2017; Jun; 37(6):1157-1167.

95. Gal, A., Balicza, P., Weaver, D., Naghdi, S., Joseph, SK, Varnai, P., Gyuris, T., Horvath, A., **Nagy**, L., Seifert, EL, Molnar, MJ, Hajnoczky, G.: MSTO1 is a cytoplasmic pro-mitochondrial fusion protein, whose mutation induces myopathy and ataxia in humans. *EMBO Mol Med* 2017; Jul;9(7):967-984. doi: 10.15252/emmm.201607058
96. Patsalos, A., Pap, A., Varga, T., Trencsenyi, G., Contreras, Gerardo Alvarado, Garai, I., Papp, Z., Dezso, B., Pintye, E., **Nagy**, L. In situ macrophage polarization is affected by altered cellular composition prior to acute sterile muscle injury. *J. Physiology* 2017; 596.17 5815-5842 DOI:10.1113/JP274361 *Featured on cover*
97. Czimmerer, Z., Nagy, Z., Nagy, G., Horvath, A., Silye-Cseh, T., Kriston, A., Jonas, D., Sauer, S., Steiner, L., Daniel, B., Deleuze, JF., **Nagy**, L. Extensive and functional overlap of the STAT6 and RXR cistromes in the active enhancer repertoire of human CD14+ monocyte derived differentiating macrophages. *Molecular and Cellular Endocrinology* 2017; Jul 31. pii: S0303-7207(17)30414-8. doi: 10.1016/j.mce.2017.07.034. [Epub ahead of print]
98. Simandi, Z., Horvath, A., Cuaranta-Monroy, I., Sauer, S., Deleuze, JF., **Nagy**, L. RXR heterodimers orchestrate transcriptional control of neurogenesis and cell fate specification. *Molecular and Cellular Endocrinology* 2017, Aug 2. pii: S0303-7207(17)30413-6. doi: 10.1016/j.mce.2017.07.033. [Epub ahead of print]
99. Kiss, M., Czimmerer, Z., Nagy, G., Bieniasz-Krzywiec, P., Ehling, M., Pap, A., Poliska, S., Boto, P., Tzerpos, P., Horvath, A., Kolostyak, Z., Daniel, B., Szatmari, I., Mazzone, M. and **Nagy**, L, Retinoid X Receptor suppresses a metastasis-promoting transcriptional program in myeloid cells via a ligand-insensitive mechanism 2017. *Proc. Natl. Acad. Sci. USA* Oct 3;114(40):10725-10730. doi: 10.1073/pnas.1700785114.
100. Imre, L., Simandi, L., Horváth, A., Fenyőfalvi, G., Nánási, P., Niaki, E.F., Bacsó, Z., Weyemi, U., Mauser, R., Ausió, J., Jeltsch, A., Bonner, W., **Nagy**, L., Kimura, H., and Szabó, G. Nucleosome stability measured in situ by automated quantitative imaging 2017. *Scientific Reports* 7: Oct 6;7(1):12734. doi: 10.1038/s41598-017-12608-9.
- 2018**
101. Czimmerer, Z., Daniel, B., Horvath, A., , Rückert, D., Nagy, G., Kiss, M., Peloquin, M., Budai, M., Cuaranta-Monroy, I., Simandi, Z., Steiner, L., Nagy Jr., B., Poliska, P., Banko, C., Bacso, Z., Schulman, I.G., Sauer, S., Deleuze, J-F., Allen, E., J., Benko, B. and **Nagy**, L. The transcription STAT6 mediates direct repression of inflammatory enhancers and limits activation of alternatively polarized macrophages. 2018 *Immunity* Jan 16;48(1):75-90. doi: 10.1016/j.immuni.2017.12.010. PMCID: PMC5772169.
102. Czimmerer, Z., Horvath, A., Daniel, B., Nagy, G., Cuaranta-Monroy, I., Kiss, M., Kolostyak, Z., Poliska, S., Steiner, L., Giannakis, N., Varga, T. and **Nagy**, L. Dynamic transcriptional control of macrophage miRNA signature via inflammation responsive enhancers revealed using a combination of next generation sequencing-based approaches. *BBA-Gene Regulatory Mechanisms* 2018 Jan;1861(1):14-28. doi: 10.1016/j.bbagr.2017.11.003.
103. Sallam T, Jones M, Thomas BJ, Wu X, Gilliland T, Qian K, Eskin A, Casero D, Zhang Z, Sandhu J, Salisbury D, Rajbhandari P, Civelek M, Hong C, Ito A, Liu X, Daniel B, Lusis AJ, Whitelegge J, **Nagy**

L, Castrillo A, Smale S, Tontonoz P: Transcriptional regulation of macrophage cholesterol efflux and atherogenesis by a long noncoding RNA. 2018 *Nat Med*. Mar; 24(3):304-312. doi: 10.1038/nm.4479.

104. Daniel B, Nagy G, Horvath A, Czimmerer Z, Cuaranta-Monroy I, Poliska S, Hays T, Sauer S, Francois-Deleuze J, **Nagy L**: The IL-4/STAT6/PPAR γ signaling axis is driving the expansion of the RXR heterodimer cistrome, providing complex ligand responsiveness in macrophages. 2018 *Nucleic Acids Research*. 2018; 46 : 9 pp. 4425- 4439. doi: 10.1093/nar/gky157.

105. Beceiro S, Pap A, Czimmerer Z, Sallam T, Guillén JA, Gallardo G, Hong C, A-Gonzalez N, Tabraue C, Diaz M, Lopez F, Matalonga J, Valledor AF, Dominguez P, Ardavin C, Delgado-Martin C, Partida-Sanchez S, Rodriguez-Fernandez JL, **Nagy L**, Tontonoz P, Castrillo A. LXR nuclear receptors are transcriptional regulators of dendritic cell chemotaxis. 2018 *Mol Cell Biol*. Mar 5. pii: MCB.00534-17. doi:10.1128/MCB.00534-17. [Epub ahead of print]

106. Agostini M,* Schoenmakers E,* Beig J, Fairall L, Szatmari I, Rajanayagam O, Muskett F.W., Adams C, Marais A.D., O’Rahilly S, Semple R.K., **Nagy L**, Majithia A.R., Schwabe J.W.R.,** Blom D.J.,** Rinki Murphy R,** Chatterjee K,** Savage D.B.** A pharmacogenetic approach to the treatment of patients with *PPARG* mutations. 2018 *Diabetes* ; 67 : 6 pp. 1086-1092. doi: 10.2337/db17-1236.

*Equal contributions, **Joint senior and corresponding authors

107. Moreira TG, Gomes-Santos AC, Horta L, Santiago AF, Goncalves MC, Lauar JG, Reis D, Barbosa A, Lemos L, Aguilar EC, Pap A, Amaral JF, Alvarez-Leite J, Cara DC, Rezende R, **Nagy L**, Faria AM, Maioli T. Consumption of Conjugated Linoleic Acid (CLA) supplemented diet during colitis development ameliorates gut inflammation without causing steatosis in mice. 2018 *The Journal of Nutritional Biochemistry* 2018; 57 pp. 238-245. doi.org/10.1016/j.jnutbio.2018.04.003

108. Patsalos A, Simandi Z, Hays, TT, Peloquin M, Hajian M, Restrepo I, Coen PM, Russell AJ, **Nagy L**: In vivo GDF3 administration abrogates aging related muscle regeneration delay following acute sterile injury *Aging Cell* 2018; 17: 5 pp.: e12815 doi.org/10.1111/acel.12815

109. Simandi Z, Pajer K, Karolyi K, Sieler T, Jiang LL, Kolostyak Z, Sari Z, Fekete Z, Pap A, Patsalos A, Contreras GA, Reho B, Papp Z, Guo X, Horvath A, Kiss G, Keresztes Z, Vamosi G, Hickman J, Xu H, Dormann D, Hortobagyi T, Antal M, Nogradi A, **Nagy L**: Arginine methyltransferase PRMT8 provides cellular stress tolerance in aging motoneurons. *Journal Of Neuroscience* 2018; 38 : 35 pp. 7683-7700. doi.org/10.1523/JNEUROSCI.3389-17.2018

110. Daniel B, Nagy G, Czimmerer Z, Horvath A, Hammers DW, Cuaranta-Monroy I, Poliska S, Tzerpos P, Kolostyak Z, Hays TT, Patsalos A, Houtman R, Sauer S, Francois-Deleuze J, Rastinejad F, Balint BL, Sweeney SL, **Nagy L**: The Nuclear Receptor PPAR γ Controls Progressive Macrophage Polarization as a Ligand-Insensitive Epigenomic Ratchet of Transcriptional Memory. *Immunity* 2018; 49: 4 pp. 615-626. doi.org/10.1016/j.immuni.2018.09.005

111. Moreira, TG, Horta LS, Gomes-Santos AC, Oliveira RP, Queiroz NMGP, Mangani D, Daniel B, Vieira AT, Liu S, Rodrigues AM, Gomes DA, Gabriely G, Ferreira E, Weiner HL, Rezende LM, **Nagy L**, Faria AMC: CLA-supplemented diet accelerates experimental colorectal cancer by inducing TGF- β -producing macrophages and T cells *Mucosal Immunology* 2018; 12: 1 pp. 188–199. doi: 10.1038/s41385-018-0090-8

112. Puchalska P, Martin SE, Huang X, Lengfeld JE, Daniel B, Graham MJ, Han X, **Nagy L**, Patti GJ, Crawford PA: Hepatocyte-Macrophage Acetoacetate Shuttle Protects against Tissue Fibrosis *Cell Metabolism* 2019; 29 (2): 383-398.e7 2019 February 5 doi.org/10.1016/j.cmet.2018.10.015
113. Horvath, A., Daniel, B., Szeles, L., Cuaranta-Monroy, I., Czimmerer, Z., Ozgyin, L., Steiner, L., Kiss, M., Simandi, Z., Poliska, S., Giannakis, N., Raineri, E., Gut, I.G., Nagy, B. and Nagy, L.: Labelled regulatory elements are pervasive features of the macrophage genome and are dynamically utilized by classical and alternative polarization signals. *Nucleic Acid Research* 2019; 47(6):2778-2792.
114. Giannakis, N.* , Sansbury, B.E.* , Patsalos, A.* , Hays, T.T., Riley, C.O., Han, X., Spite, M and Nagy , L. Dynamic changes to lipid mediators support transitions among macrophage subtypes during muscle regeneration. *Nature Immunology* 2019 April 1 doi.org/10.1038/s41590-019-0356-7 [Epub ahead of print]
 * Equal contributions
115. Poliska, S.* , Besnyei, T.* , Vegh, A., Hamar, A., Pusztai, A., Vancsa, A., Bodnar, N., Szamosi, S., Csumita, M., Kerekes, G., Szabo, Z., Nagy, Z., Szucs, G., Szanto, S., Zahuczky, G., Nagy, L., and Szekanec, Z. Gene expression analysis of vascularpathophysiology related to anti-TNFtreatment in rheumatoid arthritis. *Arthritis Research & Therapy* 2019; 21:94 doi.org/10.1186/s13075-019-1862-6
 *Equal contributions
116. Piaszyk-Borychowska, A., Szeles, L., Csermely, A., Chiang, H-C., Wesoły, K., Lee, C-K., Nagy, L. and Bluysen, H.A.R: Signal Integration of IFN-I and IFN-II With TLR4 Involves Sequential Recruitment of STAT1-Complexes and NFκB to Enhance Pro-inflammatory Transcription. *Frontiers in Immunology* 2019 June 4 doi.org/10.3389/fimmu.2019.01253 [Epub ahead of print]
117. Smith, D.G., Martinelli, R., Besra, G.S., Illarionov, P.A., Szatmari, I., Brazda, P., Allen, M.A., Xu, W., Wang, X., Nagy, L., Dowell, R.D., Rook, G.A.W., Brunet, L. R., Lowry, C.A: Identification and characterization of a novel anti-inflammatory lipid isolated from *Mycobacterium vaccae*, a soil-derived bacterium with immunoregulatory and stress resilience properties. *Psychopharmacology* 2019; 236: 1653- 1670. doi: 10.1007/s00213-019-05253-9
118. Patsalos, A., Tzerpos, P., Halasz, L., Nagy, G., Pap, A., Giannakis, N., Lyroni, K., Koliaraki, V., Pintye, E., Dezso, B., Kollias, G., Spilianakis C.G., and Nagy L. The BACH1–HMOX1 Regulatory Axis Is Indispensable for Proper Macrophage Subtype Specification and Skeletal Muscle Regeneration. *The Journal of Immunology* 2019; 203:1532-1547; DOI: <https://doi.org/10.4049/jimmunol.1900553>

REVIEW, EDITORIAL AND COMMENTARY ARTICLES:

1994

1. **Nagy,L.**, Thomazy,V. and Davies,P.J.A.: Tissue Transglutaminase: an effector in physiologic cell death. *Cancer Bulletin*. 1994; 46:136-140.

1998

2. **Nagy, L.**, Thomazy, V.A., Heyman, R.A and Davies, P.J.A.: Retinoid-induced apoptosis in normal and neoplastic tissues. *Cell Death and Differentiation* 1998; 5(1):11-19. *Invited Review*

1999

3. Tontonoz, P and **Nagy, L.**: Regulation of macrophage gene expression by PPAR γ : implications for cardiovascular disease. *Current Opinion in Lipidology* 1999; 10(6):485-490 *Invited Review*.

4. **Nagy, L.**: Molecular mechanisms of nuclear hormone receptor action in health and disease. *B.I.F. Futura (Boehringer Ingelheim Funds)* 1999; 14:257-265 *Invited Review*.

2000

5. Love, J.D., Gooch, J.T., **Nagy, L.**, Chatterjee, V.K.K. And Schwabe, J.W.R.: Transcriptional repression by nuclear receptors: mechanisms and role in disease. *Biochem. Soc. Trans.* 2000; 28:390-396.

2002

6. Szanto, A and **Nagy, L.**: Lipid sensors in atherosclerosis: The role of nuclear hormone receptors in disease progression. *B.I.F. Futura* 2002; 17:129-136 *Invited Review*.

2003

7. Ahuja, A.S., Szanto, A., **Nagy, L.** and Davies, P.J.A.: The retinoid X receptor and its ligands: versatile regulators of metabolic function, cell differentiation and cell death. *Journal of Biological Regulators and Homeostatic Agents* 2003; 17:29-45.

2004

8. **Nagy, L.** and Schwabe J.W.R.: The mechanism of nuclear receptor molecular switch. *Trends in Biochemical Sciences* 2004; 29(6):317-324.

9. Szanto A., Nakar, V., Shen, Q., Uray, I.P., Davies, P.J.A. and **Nagy, L.**: Retinoid X Receptors: X-ploring their (patho)physiological functions. *Cell Death and Differentiation* 2004;11:S126-S143.

2005

10. **Nagy, L.** and Szanto, A.: Roles for lipid activated transcription factors in atherosclerosis. *Molecular Nutrition and Food Research* 2005; 49:1072-1074 *Invited Review*.

11. **Nagy, L.** and Spiteller, G.: Atherosclerosis and lipid peroxidation. *Molecular Nutrition and Food Research* 2005; 49: 989-991 *Editorial. Featured on cover*

2006

12. Balint, L. B. and **Nagy, L.**: Selective modulators of PPAR activity as new therapeutic tools in metabolic diseases. *Endocrine, Metabolic and Immune Disorders-Drug Targets* 2006; 6:33-43 *Invited Review*.

13. Szatmari, I., Rajnavolgyi, E. and **Nagy, L.**: PPAR γ , a lipid activated transcription factor as a regulator of dendritic cell function. *Annals of the New York Academy of Sciences* 2006; 1088: 207-218 *Invited Review*.

14. Szeles, L., Torocsik, D. and **Nagy, L.**: At the crossroad of lipid metabolism and inflammation. *B.I.F. Futura* 2006; 21:79-85 *Invited Review*.

15. **L. Nagy**, R. Schüle and H. Gronemeyer: Twenty years of nuclear receptors (Meeting report). *EMBO Reports* 2006; 7(6):579-584. PMCID: PMC1479599

2007

16. Széles, L., Töröcsik, D. and **Nagy, L.**: PPAR γ in immunity and inflammation: cell types and diseases. *BBA- Molecular and Cell Biology of Lipids* 2007; 1771:1014-1030. *Invited Review*

17. Brazda P., Szekeres T., Vamosi G., **Nagy L.**: A transzkripciósz szabályozás dinamikus arca / The dynamic face of transcriptional regulation. *Biokémia* 2007; 31: (4) 74-81. (In Hungarian)

2008

18. Varga, T. and **Nagy, L.**: Nuclear receptors, transcription factors linking lipid metabolism and immunity: the case of PPAR γ . *European Journal of Clinical Investigations* 2008; 38:695-707 *Invited Review*.

19. Szatmari, I. and **Nagy, L.**: Nuclear receptor signaling in dendritic cells connects lipids, the genome and immune function. *The EMBO Journal* 2008; 27(18):2353-2362. *Invited Review*. PMCID:PMC2525841.

20. Szanto, A and **Nagy, L.**: The many faces of PPAR γ : anti-inflammatory by any means. *Immunobiology* 2008; 213:789-803.

21. Gyongyosi, A and **Nagy, L.**: Potential Therapeutic Use of PPAR γ -Programmed Human Monocyte-Derived Dendritic Cells in Cancer Vaccination Therapy. *PPAR Research* ID:473804 2008. PMCID:PMC2581789.

22. **Nagy, L.**, Tontonoz, P.: Of Vitruvian mice and men. *FEBS Letters* 2008; 582 doi:10.1016/j.febslet.2007.12.009. **Featured on cover**

2009

23. Töröcsik, D, Szanto, A and **Nagy, L.**: Oxysterol signaling links cholesterol metabolism and inflammation via the Liver X Receptor in macrophages. *Molecular Aspects of Medicine* 2009; 30:134-152 *Invited Review*.

2011

24. Mesko, B., Poliska, S. and **Nagy, L.**: Gene expression profiles in peripheral blood for the diagnosis of autoimmune diseases. *Trends in Molecular Medicine* 2011; 17:223-233. *Invited Review*

25. Varga, T., Czimmerer, Z. and **Nagy, L.**: PPARs are a unique set of fatty acid regulated transcription factors controlling both lipid metabolism and inflammation. *BBA- Molecular Basis of Disease* 2011; 1812: 1007-1022. *Invited Review* PMCID:PMC3117990. *Top 100 most cited articles in 2009-2014*

26. Simandi, Z., **Nagy, L.**: Retinoid Signaling is a Context-Dependent Regulator of Embryonic Stem Cells. *Embryonic Stem Cells – Differentiation and Pluripotent Alternatives* 2011; pp. 55-78 **BOOK CHAPTER**

2012

27. **Nagy, L.**, Szanto, A., Szatmari, I. and Szeles, L.: Nuclear hormone receptors enable macrophages and dendritic cells to sense their lipid environment and shape their immune response. *Physiological Reviews* 2012; 92(2) 739-789 *Featured on cover*
28. Mesko, B., Zahuczky, G. and **Nagy, L.**: The triad of success in personalized medicine: pharmacogenomics, biotechnology and regulatory issues from a Central European perspective. *New Biotechnology* 2012; 29(6): 741-750 *Invited Review*
29. **Nagy, L.**: Would eating carrots protect your liver? A new role involving NKT cells for retinoic acid in hepatitis (Commentary). *European Journal of Immunology* 2012; 42:1677-1680.
- 2013**
30. Nagy, Z., Czimmerer Z. and **Nagy, L.**: Nuclear receptor mediated mechanisms of macrophage cholesterol metabolism. *Molecular and Cellular Endocrinology* 2013; 368:85-98 *Invited Review*
31. Kiss, M., Czimmerer, Z. and **Nagy, L.**: The role of lipid-activated nuclear receptors in shaping macrophage and dendritic cell function - from physiology to pathology. *Journal of Allergy and Clinical Immunology* 2013; 132:264-286 *Invited Review*
32. Szekanecz, Z., Mesko, B., Poliska, S., Vancsa, A., Szamosi, S., Vegh, E., Simkovics, E., Laki, J., Kurko, J., Besenyei, T., Mikecz, K., Glant, T. and **Nagy, L.**: Pharmacogenetics and pharmacogenomics in rheumatology. *Immunological Research* 2013; 56(2-3): 325-333 *Invited Review* PMCID:PMC4139282
33. Simandi, Z. , Cuaranta-Monroy, I. and **Nagy, L.**: Nuclear receptors as regulators of stem cell and cancer stem cell metabolism. *Seminars in Cell and Developmental Biology* 2013; 24:716-723. *Featured on cover*
34. Balint, B.L., **Nagy, L.**: A funkcionális genomikai eszköztár szerepe az onkológiai kutatásokban. *Magyar Onkológia* 2013; 57: p. 21. (in Hungarian)
35. Soos, B., Mesko, B., Poliska, S., Vancsa, A., Szamosi, S., Vegh, E., Simkovics, E., **Nagy, L.**, Szekanecz, Z.: A rheumatoid arthritis genetikája és genomikája: Farmakogenetika és farmakogenomika. *Immunológiai Szemle* 5:(1) pp. 19-27. (2013) (in Hungarian)
36. Cuaranta-Monroy, I and **Nagy, L.**: PPAR γ needs a helping hand to make fat. *Cell Death and Differentiation - Editorial* 2013 20:1599-1600 PMCID: PMC3824600.
37. **Nagy, L.**: Nuclear hormone receptors are powerful regulators of stem cell maintenance, differentiation, metabolism and function. *Seminars in Cell and Developmental Biology- Editorial* 2013 24(10-12) 669. doi 10.1016/j.semcd.2013.10.006.
38. **Nagy, L.**, Rajnavolgyi, E.: EMDS 2012: 26th meeting of the European Society for Macrophage and Dendritic Cell Biology in Debrecen, Hungary, September 1-3, 2012. *Immunobiology-Editorial* 2013
39. Soos, B., Kurko, J., Besenyei, T., Szabo, Z., Szanto, S., Mesko, B., Poliska, S., **Nagy, L.**, Laki, J., Glant, T., Mikecz, K.: A rheumatoid arthritis genetikája és genomikája: patogenetikai vonatkozások. *Magyar Reumatológia* 2013; 54:(1) pp. 7-17. (in Hungarian)

40. **Nagy, L.** A Magreceptor Kutatólaboratórium és a Debreceni Klinikai Genomikai és Személyre Szabott Orvoslási Központ a Debreceni Egyetem OEC, Biokémiai és Molekuláris Biológiai Intézetében. *Biokémia* 2013; 37: (3) pp.11-21 (in Hungarian)

2014

41. Daniel, B, Nagy, G, and **Nagy, L.** The intriguing complexities of mammalian gene regulation: how to link enhancers to regulated genes. Are we there yet? *FEBS Letters* 2014; 588: 2379-2391.

2015

42. Cuaranta-Monroy, I., Kiss, M., Simandi, Z., **Nagy, L.** Genomewide effects of peroxisome proliferator-activated receptor gamma in macrophages and dendritic cells-revealing complexity through systems biology. *European Journal of Clinical Investigation* 2015 Sept 45(9) 964-75.

43. **Nagy, L.**: A géntől a genomig és vissza. *Biokémia* 2015; 39: (1) 5-17. (In Hungarian)

2016

44. Kiss, M and **Nagy, L** Nuclear Receptors in Immune Function. In: Ratcliffe, M.J.H. (Editor in Chief), *Encyclopedia of Immunobiology* 2016; Vol. 3, pp. 146–156. Oxford: Academic Press.

45. Pap, A., Cuaranta-Monroy, I., Peloquin, M. and **Nagy, L.** Is the Mouse a Good Model of Human PPAR γ -Related Metabolic Diseases? *International Journal of Molecular Sciences* 2016 17, 1236; doi:10.3390/ijms17081236. *Invited Review*

2017

46. Horvath, A, Simandi, Z. and **Nagy L.** Transcriptional complexes as Functional Agents: Getting in touch with the genome requires teamwork at multiple levels. *Journal of Applied Physiology* 2017, 123:1014-1015. doi:10.1152/japplphysiol.00558.2017. *Commentary*

47. **Nagy, L.** and Ellmeier, W. Immunity meets metabolism and then they start talking. *FEBS Letters* 2017, 591: (19); 2957-58. *Editorial, Special Issue on Immunity and Metabolism*

PATENTS:

1. Compounds useful for the modulation of processes mediated by nuclear hormone receptors, methods for the identification and use of such compounds
ISSUED ON 5/14/2002 AS U.S. PATENT NO.6,387,673

2. Use of RAR antagonists as modulators of hormone mediated processes
ISSUED ON 8/20/2002 AS U.S. PATENT NO. 6,436,993

3. Treatment of disease states, which result from neoplastic cell proliferation using PPAR-gamma activators and compositions ISSUED ON 11/11/2003 U.S. PATENT NO.6,646,008

4. Methods for the use of inhibitors of co-repressors for the treatment of neoplastic diseases
ISSUED ON 3/16/2004 US PATENT NO.6,706,762

5. Novel use of PPAR-gamma modulators and professional APCs manipulated by the same Hungarian Patent Application (May 14th, 2003) P0301358, International PCT/IB2004/050707 (pending) International application number: WO 2004/101776 A3

6. Method for conferring cytoprotection Hungarian Patent Application P0600497 (June 19th,

- 2006) International PCT/HU2007/000055 European Patent # 2081599
7. Control system for immunoprecipitation studies P1200395 (HU) US61666945
 8. Diagnostic method for TNF- α responsiveness, P1200712 (HU)

DISSERTATIONS:

1. Programmed cell death in malignant cell lines in vitro
Thesis for the degree of M.D. (in Hungarian) University Medical School of Debrecen, Debrecen, Hungary (1989)
2. Retinoid regulated gene expression during differentiation and apoptosis, Molecular analysis of the promoter of the mouse tissue transglutaminase gene
Thesis for the degree of Ph.D. in Medical Sciences (cell and molecular biology) University Medical School of Debrecen, Debrecen, Hungary (1995)
3. Molecular mechanisms involved in nuclear hormone receptor action in health and disease
Thesis for the Degree of Doctor of the Hungarian Academy of Sciences University of Debrecen, Debrecen, Hungary (2004)

INVITED GUEST/SPEAKER ENGAGEMENTS (2014-):

January 2014

Invited Speaker - Alexander Fleming Biomedical Sciences Research Center, Athens, Greece
"Nuclear Hormone Receptors Link Metabolism to the Expression of the Genome in Immune Cells"

March 2014

Invited Speaker - Keystone Symposia-Whistler Conference Center, Whistler, BC
"The Genomic Basis of a Retinoid X Receptor-Induced Angiogenic Macrophage Phenotype"

June 2014

Invited Speaker - Hungarian Academy of Sciences, Budapest, Hungary
"Genes, genomes and cell fates"

Invited Speaker – Special Seminar, SBP-La Jolla

"The Genomic Basis of the Activity of Retinoid X Receptor in Macrophages"

August 2014

Invited Speaker, Annual Hungarian Biochemical Society, Debrecen, Hungary
From Genes to Genomes and Back

Invited Speaker, FEBS/EMBO, Greece, Paris, France

"The Enhancer Network Operated by Liganded RXR Supports Angiogenic Activity in Macrophages-Inflammation & Disease"

September 2014

Invited Member, Open Society Foundation, New York

October 2014

Invited Speaker, XXXIX Congress of the Brazilian Society of Immunology, Rio de Janeiro
“The Active Enhancer Network Operated by Liganded RXR Supports Angiogenic Activity in Macrophages”

November 2014

Invited Speaker, 12th Research Center for Genomic Medicine International Symposium, Saitama Medical Univ., Saitama, Tokyo
“Genomic Control of Nuclear Receptor Mediated Signaling in Cell Types Associated with Metabolic Diseases & Chronic Inflammation”

Invited Speaker, Danube Scientific Conference on Epigenetics, Budapest, Hungary
“Cistromic and Long-Range Interactions of Lineage-and Signal Specific Transcription Factors Integrate Macrophage Specification, and Control of Lipid Signaling”

December 2014

Invited Member, ESGI Meeting, Berlin, Germany

March 2015

Invited Speaker, EWRR Meeting, Budapest, Hungary
“Nuclear Receptor Signaling in Macrophages Link Metabolism & Inflammation”

April 2015

Invited Member, The Henry Kunkel Society meeting, Annecy, France

Invited Member, FEBS ACC Meeting, Budapest, Hungary

May 2015

Invited Chair and Member, National Research Funding Agency OTKA Molecular Biology Study Section, Hungary.

Invited Speaker/Moderator, SBP La Jolla Faculty Retreat, CA

“Epigenetic control of neuronal cell type specification with implication to neuropathologies”

June 2015

Invited Speaker, Focus on Metaflammation Conference, Lausanne, Switzerland
“Cistromic and Long-Range Interactions of Lineage-and Signal Specific Transcription Factors Integrate Macrophage Specification, and Control of Lipid Signaling”

Invited Member, NR/NET mid-term meeting, Lausanne, Switzerland

July 2015

Invited Member, FEBS Editorial Board Meeting, Berlin, Germany

October 2015

Invited Speaker, Congress of Hungarian Society for Immunology Meeting, Budapest, Hungary
“Next Generation Sequencing in Immunological Research: Challenges & Opportunities”

Invited Speaker, International Symposium on Inflammation & Health, UCF College of Medicine
“Defining the Healing Macrophage Phenotype Using Genomic Approaches”

January 2016

Invited Member, Center for Stem Cell & Regenerative Medicine Retreat – SBP-San Diego, CA

February 2016

Invited Speaker, Chromatin 3D Workshop, Milan, Italy

“Cistromic and long range interactions of lineage and signal specific transcription factors integrate macrophage specification and control lipid signaling”

March 2016

Invited Chair and Member, FEBS Prize Committee Meeting, Madrid, Spain

April 2016

Invited Member, EMBO Council Meeting, Heidelberg, Germany

Invited Speaker, Institute of Enzymology, Budapest, Hungary

“Defining the “healing macrophage” phenotype using genomic and epigenomic approaches”

May 2016

Invited Speaker, SBP La Jolla Faculty Retreat, San Diego, CA.

“Epigenomic and cistromic determinants of cell-type specific gene expression”

June 2016

Invited Speaker, UF Myology Institute Seminar Series, Gainesville, FL.

“Epigenomics to identify novel pathways to control skeletal muscle repair and survival”

Invited Speaker, FASEB Conference on Retinoids, West Palm Beach, FL.

“Roles for RXR signaling in macrophage polarization, angiogenesis and lung metastasis formation”

Invited Speaker, UF New Directions in Biology and Disease of Skeletal Muscle Conference, Orlando, FL. “PPARgamma regulated GDF15: A unique role in macrophage mediated muscle regeneration”

September 2016

Invited Speaker, University of Virginia Pharmacology Seminar Series, Charlottesville, Virginia.

“Defining the healing macrophage phenotype using genomic approaches”

November 2016

Invited Speaker, Weill Cornell Medical College Pharmacology Seminar Series, New York, NY.

“Epigenomic determinants of cell type specification in embryonic stem cells and macrophages”

March 2017

Invited Speaker, University of Vienna, Department of Pharmacognosy seminar series, Vienna, Austria.

“Re-opening the X-files: the Retinoid X Receptor in macrophage polarization and function in metastasis and tissue repair”

Invited Speaker, 3D-Chromatin, Cancer Epigenomics Conference, Nobel Forum, Karolinska Institutet, Sweden. “Identification of ligand insensitive bookmarking and architectural functions for nuclear hormone receptors in gene expression regulation”

Invited Speaker/Moderator, Genomics Medicine Symposium, Sanford-Burnham-Prebys Medical Discovery Institute at Lake Nona, FL.

“Re-opening the X-files: nuclear receptor regulated macrophage gene expression and metastasis control”

April 2017

Invited Speaker, Glaxo Smith Kline, Philadelphia, PA.

“System level approaches to identify novel pathways to control skeletal muscle regeneration and metabolism”

Invited Speaker Diabetes and Metabolism Research Center Seminars Ohio State University, Columbus, Ohio.

“Transcriptional and epigenomic regulation of cell fate decisions and cellular interactions in health and disease”

May 2017

Invited Speaker, University of Florida, Topics in Cancer Seminar- Visiting Professor

“Breaking the dogma of nuclear hormone receptor signaling using epigenomics approaches”

June 2017

Invited Speaker, American Diabetes Association Annual Meeting, San Diego, CA

“System-level analyses to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”

August 2017

Invited Speaker, TGase 40 Years, University of Debrecen, Hungary

“The gene regulation of tissue transglutaminase as a model of the interaction between lineage and signal-specific transcription control.”

Invited Speaker, FEBS Advanced Course//ITN Meeting on Nuclear Receptors in Human Health and Diseases, Spetses, Greece

“Nuclear receptors as regulators of cell type specification: ligand dependent and architectural roles”

September 2017

Invited Speaker, Johns Hopkins University, School of Medicine, Department of Physiology seminar series

“System-level analyses to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”

October 2017

Invited Speaker, Brazilian Society for Immunology Annual Meeting, Salvador, Brazil

“PPAR γ as a lipid activated transcription factor”

Invited Speaker, Yale University, School of Medicine, Department of Comparative Medicine, Special seminar

“System-level analyses to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”

November 2017

Invited Speaker, 70th Birthday Symposium of Professor Laszlo Fesus, Hungarian Academy of Sciences, Debrecen, Hungary

“The epigenomic basis of cell type specification in “healing macrophages”

December 2017

Invited Speaker, Epigenetics Day, University of California-Irving

“Epigenomics of macrophage polarization and novel chromatin architectural roles of nuclear receptors”

January 2018

Invited Speaker, UCF Burnett School of Biomedical Sciences Seminar Series, Orlando, FL

February 2018

Invited Speaker, 3D-Chromatin Annual Meeting, “The dynamic lipid signaling landscape underpinning sterile inflammatory response and skeletal muscle regeneration/repair”, Lisbon, Portugal

April 2018

Invited Speaker, Johns Hopkins All Children’s Hospital, Research Advisory and Mentorship Forum, “System-level analyses to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, St. Petersburg, FL

May 2018

Invited Keynote Speaker Virginia Tech School of Veterinary Medicine Seminar Series

“System level analyses of macrophages to control skeletal muscle regeneration and repair”, Blacksburg, VA

June 2018

Invited Speaker, FASEB Science Research Conference, “The epigenomic roles of RXR heterodimers in macrophage polarization in cancer and tissue regeneration”, Steamboat Springs, CO

October 2018

Invited Speaker, Johns Hopkins All Children’s Hospital 7th Annual Research Symposium, “Understanding and harnessing the healing power of macrophages using multi-omics technologies”, St. Petersburg, FL

Invited Speaker, FEBS Advanced Lecture Course, 3rd Danube Conference on Epigenetics, “The nuclear receptor PPAR γ controls progressive macrophage polarization as a ligand-insensitive epigenomic ratchet of transcriptional memory”, Budapest, Hungary

Invited Speaker, Technical University of Munich, Translational Oncology Seminar Series, “Defining the healing macrophage phenotype in tissue regeneration and metastasis control using epigenomic approaches”, Munich, Germany

Invited Speaker, Helmholtz Zentrum München, Translational Oncology Seminar Series, “System-level analysis to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, Munich, Germany

November 2018

Invited Speaker, 50th Annual Conference of the Hungarian Medical Association of America,

“Understanding and harnessing the healing power of macrophages using multi-omics technologies”, Sarasota, FL

December 2018

Invited Speaker, Memorial Sloan Kettering Cancer Center and the Hospital for Special Surgery, Immunology & Microbial Pathogenesis Program Research Seminar Series, “Novel epigenomic mechanisms of macrophage polarization in health and disease”, New York, NY

February 2019

Invited Speaker, Central European University, Stadium28 Lecture series: How to evaluate research institutes and programs? “Science under the pressure”, Budapest, Hungary

March 2019

Invited Speaker, Department of Biochemistry and Molecular Genetics (BMG) Seminar Series, University of Alabama at Birmingham, “RXR, an enigmatic nuclear receptor integrating metabolism and inflammation in macrophages”, Birmingham, AL

Invited Speaker, ENDO 2019, “RXR/PPAR-g dendritic cells and macrophages”, New Orleans, LA

April 2019

Invited Speaker, KAIST, “System-level analysis to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, Seoul, Korea

Invited Speaker, The 7th Seoul International Congress of Endocrinology and Metabolism, “Systemlevel analysis to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, Seoul, Korea

Invited Speaker, Department of Genetic and Complex Diseases Seminar Series, Harvard T.H. Chan School of Public Health, “Novel epigenomic mechanisms of macrophage polarization in health and disease from cancer to tissue regeneration”, Boston, MA

Invited Speaker, 2019 Rachmiel Levine-Arthur Riggs Diabetes Research Symposium, Department of Translational Research and Cellular Therapeutics, Diabetes and Metabolism Research Institute, City of Hope, “System-level analyses to identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, Duarte, CA

Invited Speaker, MD Anderson Cancer Center, The University of Texas, “Novel epigenomic mechanisms of macrophage polarization in health and disease from cancer to tissue regeneration”, Houston, TX

May 2019

Invited Speaker, The 87th European Atherosclerosis Society (EAS) Congress, “System-level analysis of inflammatory and repair macrophages reveal an integrated circuitry of lipid and epigenomic changes”, Maastricht, The Netherlands

June 2019

Invited Speaker, Immunometabolism Satellite Conference, “Dynamic changes to lipid mediators support transitions among macrophage subtypes during muscle regeneration”, Maastricht, The Netherlands

September 2019

Invited Speaker, ICGEB Workshop on Epigenetics of Infectious and Non-Communicable Diseases, “System-level analyses help identify macrophage specific mechanisms controlling skeletal muscle repair and metabolism”, Cape Town, South Africa

Invited Speaker, University of Cape Town, “Novel epigenomic mechanisms of macrophage polarization in health and disease”, Cape Town, South Africa

October 2019

Invited Speaker, Biological Research Center, “Novel epigenomic mechanisms of macrophage polarization in health and disease”, Szeged, Hungary

Invited Speaker, Szeged Scientists Academy, University of Szeged, “Identifying the healing phenotype of macrophages”, Szeged, Hungary

Invited Speaker, Hungarian Scientific Academy, Department of Biological Sciences, “Identifying the healing phenotype of macrophages”, Budapest, Hungary

Invited Speaker, University of South Florida Research Conference, “System-level analyses help identify macrophage-specific mechanisms controlling skeletal muscle repair and metabolism”, Tampa, FL