

## Curriculum Vitae



### László Nagy, M.D., Ph.D., Dr.habil., MHAS

#### Personal details:

**Office address:** Department of Biochemistry and Molecular Biology  
Research Center for Molecular Medicine  
Medical and Health Science Center  
University of Debrecen, Hungary  
Life Science Building, Egyetem tér 1.  
Debrecen, Hungary H-4010  
phone: +36-52-416-432 fax: +36-52-314-989  
E-mail: nagyl@med.unideb.hu  
Web: <http://nlab.med.unideb.hu>

**Citizenship:** Hungarian

**Degrees:** **Member of the Hungarian Academy of Sciences (2007)**

**Dr. habil. (Habilitation)** University of Debrecen,  
Basic Medical Sciences [6/2006] (2006)

**Doctor of the Hungarian Academy of Sciences (D.Sc.)**  
Biological Sciences (Biochemistry and Molecular Biology)  
[4.481/2005] (2005)

**Doctor of Philosophy (Ph.D.)**  
*(Summa cum laude)*  
Medical Sciences (Cell and Molecular Biology),  
University Medical School of Debrecen, Hungary  
[G 44-138/1995] (1995)

**Medical Doctor (M.D.)**

*(Summa cum laude)* University Medical School of Debrecen,  
Hungary [35-117/91] (1991)

**Languages:** English (State Exam, Advanced Level A025784 #019455, 2000)  
Russian (State Exam, Intermediate Level # A 096533/1987)

**Professional Appointments:**

Present appointments:

**Primary appointments:**

**Director of Genomic Control and Metabolism Program**

Sanford-Burnham Medical Research Institute, Orlando - Lake Nona, USA  
(2013-)

**Professor of Biochemistry and Molecular Biology,**

Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary  
(September 1, 2006-)

**Head of Debrecen Clinical Genomics Center**

(July 1, 2000-)

**Secondary appointments:**

**Fulbright Scholar**

Visiting Scientist, The Salk Institute for Biological Studies (2010-2011)

**International Research Scholar of the Howard Hughes Medical Institute**

(2001-2011)

**Past appointments:**

**Wellcome Trust International Senior Research Fellow (2005-2010)**

**Adjunct Professor of Pharmacology and Physiology**

Department of Integrative Biology Pharmacology and Physiology  
University of Texas-Houston, Medical School, Houston Texas, USA  
(September 1, 1999- August 31, 2010)

**Associate Professor of Biochemistry and Molecular Biology,**

Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary  
(July 1, 2000- August 31, 2006)

**Young Investigator** of the European Molecular Biology Organization (EMBO)

(July 1, 2001- June 30, 2004)

**\* Assistant Professor of Biochemistry and Molecular Biology,**  
Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary  
(October 1, 1999- June 30, 2000)

**Postdoctoral Associate,**  
Gene Expression Laboratory, The Salk Institute for Biological Studies, La Jolla, USA  
(1996-1999)

Special Fellow of the Leukemia Society of America (1998-1999)  
Postdoctoral Fellow of the Howard Hughes Medical Institute (1997-1998)  
Advisor: Ronald M. Evans Ph.D.

**Instructor in Biochemistry and Molecular Biology,**  
Department of Biochemistry and Molecular Biology, University medical School of  
Debrecen, Hungary  
(April 1 1995 - September 30 1999)

**Postdoctoral Fellow,**  
Department of Pharmacology, University of Texas, Houston, Medical School, USA,  
(1992 - 1995)  
Advisor: Peter J.A. Davies M.D., Ph.D.

**Research Fellow of the Hungarian Academy of Sciences,**  
Department of Biochemistry, University Medical School, Debrecen, Hungary.  
(1991-1992) Advisor: Laszlo Fesus M.D., Ph.D.  
\* First independent position

**Education (graduate and postgraduate):**

**Ph.D. Student,** in Medical Sciences (cell and molecular biology), University Medical  
School, Debrecen, Hungary  
(1992-1995)  
Advisors: Dr Peter J.A. Davies, University of Texas-Houston  
and Dr László Fésüs, University Medical School of Debrecen

**Medical Student,** University Medical School, Debrecen, Hungary  
(including one year internship in 1991)  
(1985-1991)

**High School Student,** Tóth Árpád Gimnázium, Debrecen, Hungary  
(1981-1985)

**Awards and Honors:**

**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 (1989)  
**Weszprémi-Prize** for Outstanding Academic and Scientific Activity presented by the  
Rector of the University Medical School of Debrecen (1991)  
**Special Fellow of the Leukemia Society of America** (1998-1999)  
**Cheryl Whitlock/Pathology Prize,** Stanford University (1998)

**Boehringer Ingelheim Research Award (1999)**

**Széchenyi Professorship (1999-2002)**

**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)

**Howard Hughes Medical Institute International Research Scholar (2000-2010)**

**EMBO Young Investigator (2000-2004)**

**Szechenyi Istvan Fellowship (2003-2006)**

**Wellcome Trust International Senior Research Fellow (2005-2010)**

**EMBO Member (2007)**

**ESCI Award for Excellence in Biomedical Investigation (2008)**

**Fulbright Scholar (2010-2011)**

**Tankó Béla-Prize** for Outstanding Scientific Achievements presented by the President of the Hungarian Biochemical Society (2014)

**Memberships in professional societies:**

Hungarian Biochemical Society, Member since 1989

Society of Pro Scientia Gold Medal Laureates, Member since 1995

Endocrine Society (USA), Active Member since 2002

European Macrophage and Dendritic Cell Society, Member since 2002

American Society of Biochemistry and Molecular Biology, Member since 2003

Hungarian Society for Bioinformatics, Founding member, executive committee member 2006-2010

American Association of Immunologists, member since 2011

**Advisory functions:**

BioSystems International SAS, Scientific advisor (2004-2006)

Cell therapy Unit, University of Debrecen Member of the Scientific Advisory Board (2004-)

Gerson Lerhman Group Councils, member since 2006

UDGenoMed, Ltd., Chief Scientific Officer (2007-)

Gedeon Richter, Inc., Member of the Scientific Advisory Board (2008-)

Member of the International Advisory Board of the 10<sup>th</sup> Symposium on Dendritic cells DC2008 (Kobe, Japan)

International Society of Dendritic Cell and Vaccine Research, Advisory Committee member (2010-)

Institute of Genetics, HAS BRC, Szeged Scientific Advisory Board, member (2010-)

**Refereeing and editorial functions:**

*EMBO Reports*, Member of the Advisory Editorial Board, 2010-

*FEBS Letters*, Editor 2005-

*FEBS OpenBio*, Founding Editor 2011-

*European Journal of Clinical Investigation*, Member of the Editorial Board, 2009-

*PPAR Research*, Advisory Editor 2007-

*Cell Death and Disease*, Member of the Advisory Editorial Board (2010-)

***Encyclopedia of Life Sciences***, Biochemistry, Advisory Editorial Board Member  
(2010-)

***Ad hoc* reviewer for the following journals and organizations:**

Journals:

Arthritis and Rheumatism  
Atherosclerosis, Thrombosis and Vascular Biology  
Biochemical Pharmacology  
BBA  
Biomolecular Concepts  
Blood  
BMC Medical Genomics  
Chemistry and Biology  
Circulation  
Cell Death and Differentiation  
Cellular Reprogramming  
Diabetologia  
Drug Discovery Today  
EMBO Journal  
EMBO Reports  
European Journal of Immunology  
Immunity  
International Journal of Biochemistry and Molecular Biology  
International Journal of Cancer  
International Immunology  
Journal of Biological Chemistry  
Journal of Clinical Investigations  
Journal of Immunology  
Journal of Leukocyte Biology  
Leukemia  
Molecular and Cellular Biology  
Molecular and Cellular Endocrinology  
Molecular Endocrinology  
Molecular Nutrition and Food Research  
Molecular Pharmacology  
Nature  
Nature Medicine  
Physiology  
Proceedings of the National Academy of Sciences of the USA  
PLoS ONE  
Science  
Science Signaling  
WIREs Systems Biology and Medicine

Research funding organizations:

- Boehringer Ingelheim Funds (Germany)
- Commission of the European Union (evaluator, reviewer, rapporteur)
- The Wellcome Trust (UK)

- FWO Belgium
- European Molecular Biology Organization (EMBO)
- Netherlands Organization for Scientific Research (NWO) (The Netherlands)
- Hungarian Scientific Research Fund (OTKA)
- National Science Foundation (USA)
- 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) (Austria)
- Swiss Federal Institute of Technology Zurich (ETH) (Switzerland)
- Science Foundation of Ireland
- National Institutes of Health (intramural research) (USA)

### **Ongoing research support**

#### **Hungarian Scientific Research Fund (OTKA) (K100196)**

A novel mouse model for the study of PPAR $\gamma$  deficiency

HUF 40,000,000 = EUR 150,000 (2012-2016)

#### **FP7-PEOPLE-2013-ITN PITN-GA-2013-606806 (Marie Curie NR-NET)**

NR-NET Control of metabolic and inflammatory pathways by nuclear receptors

309,194 EUR (2013-2017)

#### **LP2012-47/2012**

Hungarian Academy of Sciences- University of Debrecen, Momentum

Immunogenomics Research Group

HUF 216,000,000 (2012-2017)

#### **IVF- NSC, Taiwan Joint Research Projects Program - International Visegrad Fund**

"Identification of novel biomarkers for development and progression of atherosclerosis"

80 000,00 EUR

(2013-2016)

#### **VKSZ\_12-1-2013-0001 (VKSZ K+F)**

Biomiszimiláris monoklonális antitestek fejlesztése

HUF 140,000,000

(2014-2017)

#### **Completed:**

#### **FP7-REGPOT-2008-1/229920**

MOLMEDREX Development of the Research Center for Molecular Medicine of the University of Debrecen, Medical and Health Science Center

970,000 EUR (2009-2012)

**Hungarian Scientific Research Fund (OTKA) (NK72730)** Decoding nuclear hormone receptor activity using chromatin immunoprecipitation in human primary immune cells

HUF 77,110,000=268,000 EUR (2008-2012)

International Research Scholarship of the **Howard Hughes Medical Institute** (USA)  
“PPAR $\gamma$  a lipid activated transcription factor at the crossroad of lipid metabolism and inflammation” # 55005621  
(2006-2011) USD 500,000

International Research Scholarship of the **Howard Hughes Medical Institute** (USA)  
“Role of a lipid activated transcription factor, PPAR $\gamma$  in the innate responses of macrophages during pathogen infection” #5500524  
(2005-2011) USD 500,000

**TAMOP-4.2.2/08/1 IKUT**

Stem cell and gene therapy research center at the University of Debrecen, Medical and Health Science Center  
660,000,000 HUF= 2,300,000 EUR (2009 – 2011)

**Wellcome Trust** International Senior Research Fellowship  
“Role of RXR heterodimers in macrophage differentiation and function” #074021  
(2005-2010) GBP 450,000

European Union Framework Program 5 “Nutriceptors” Research Training Network No  
(2003-2006) EUR 164,000

“Practical Course on Advanced Methods on Gene Expression Analysis” Howard Hughes Medical Institute (USA)  
(2005-2006) USD 150,000

International Research Scholarship of the Howard Hughes Medical Institute (USA)  
#55000326  
“Role of PPAR $\gamma$  in normal monocyte-macrophage cell function and in diseases”  
(2001-2005) USD 425,000

Biotechnology 2002 (Hungarian Ministry of Education)  
“New molecular methods for the detection and monitoring of metabolic diseases: the role of nuclear receptors”  
(2002-2005) HUF 40 M (USD 200,000)

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

Hungarian Scientific Research Fund (OTKA) T034434  
“ Role of PPAR $\gamma$ :RXR heterodimers in myeloid cell differentiation and function”  
(2001-2004) HUF 16,4 M (USD 58,500)

European Union Framework Program 5 “EU-NUC-REC-NET” Research Training Network “European network to study the regulation of key metabolic processes by nuclear receptors” No HPRN-CT-2000-00088

(1999-2003) EUR 194,000

European Molecular Biology Organization (EMBO) Young Investigator Award #0246  
(2001-2004)  
EUR 85,000

Hungarian Higher Education Research Fund (FKFP) 0208/2001  
“Role for PPAR $\gamma$  and LXR in the biological effects of modified LDL”  
(2001-2004) HUF 9 M (USD 31,500)

Fogarty International Research Collaboration Award (FIRCA) 5 RO3 TW 01146-02  
“Chromatin activation in retinoid-induced apoptosis”  
US collaborator: Dr Peter J.A. Davies (University of Texas-Houston, Medical School)  
(1999-2003) USD 96,000

Royal Society (UK)  
“Hormonal regulation of nuclear receptor co-repressor interactions”  
(UK project leader: Dr John W.R.Schwabe MRC-LMB, Cambridge)  
(2000-2001) GBP 10,000

Boehringer Ingelheim Research Award  
“Molecular mechanisms of nuclear receptor action in health and disease”  
(1999-2001) DEM 100,000

Egészségügyi Tudományos Tanács (ETT) (Hungarian Ministry of Health) T-07 254/99  
“The role of the lipid activated transcription factor PPAR in the pathogenesis of  
atherosclerosis”  
(1999-2000) HUF 1,600,000

Leukemia Society of America Special Fellow Award (1998-2000) USD38,000/year

Postdoctoral Fellowship of the Howard Hughes Medical Institute (1997-1998, 12  
months) USD 34,000

Postdoctoral Fellowship of the University of Texas-Houston, Medical School (1992, 6  
months) USD 10,000

FASEB Travel Fellowship for the 1992 Summer Conference on Retinoids (USD 500)  
Saxtons River, Vermont June 14-19 1992

Medical Student Grant (Pro Cultura Foundation) “Generation of tissue  
transglutaminase null mutant cell lines with homolog recombination” USD 1,800  
(1992)

Research Studentship (3 months) Dept. of Pharmacology, Univ. of Texas HSC at  
Houston, USA 1989, (Soros Foundation, USD 1,500).

FEBS Youth Travel Fellowship FEBS International Summer School on the Molecular  
Genetics of Differentiation, West-Berlin 1989 (DEM 1,800)



**Research and development activity (collaborations with industry):**

**Ongoing:**

**SCHIZO-08** Biobank based biomarker discovery in schizophrenia  
NKFP

**Completed:**

**Biosystems International SAS, France**

Comprehensive pilot and biomarker early validation studies for COPD GPCR target and biomarker discovery  
(2005-2007)

**Pfizer Global Research, Sandwich, UK**

Discovery and validation of biomarkers and drug targets for COPD: a clinical genomics, proteomics and genetics collaboration with the University of Debrecen.  
(2003-2007)

**Richter Gedeon Ltd, Hungary**

0980699 Global gene expression analysis on rat liver  
(2006-2007)

**Pfizer Global Research, Fresnes Laboratories, France**

Identification of disease relevant target and biomarker candidates by comprehensive interrogation of the genome and proteome in COPD (2001-2003)

**N-GENE Research and Development Ltd, Budapest, Hungary**

Analysis of GBP-15 in PPAR regulated processes  
(2004)

**Biorex Rt., Hungary**

Development of quantitative PCR assays  
(2001-2002)

## **Publications:**

### **1991**

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

### **1994**

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

### **1995**

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

### **1996**

4. 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  
**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.  
**Journal of Biological Chemistry** 271 (8): 4355-4365 (1996)
5. Retinoid-regulated Expression of BCL-2 and Tissue Transglutaminase During Differentiation and Apoptosis of Human Myeloid Leukemia (HL-60) Cells  
**Nagy, L.**, Thomazy, V.A., Heyman, R.A., Chandraratna, R.A.S. and Davies, P.J.A.  
**Leukemia Research** 20 (6): 499-505 (1996)
6. Retinoic acid induction of the tissue transglutaminase promoter is mediated by a novel response element  
Yan, H-Z., Noonan, S., **Nagy, L.**, Davies, P.J.A. and Stein, J.P.  
**Molecular and Cellular Endocrinology** 120: 203-212 (1996)

### **1997**

7. Nuclear receptor repression mediated by a complex containing SMRT, mSin3A and histone deacetylase  
**Nagy, L.**, Kao, H-Y., Chakravarti, D., Lin, R.J., Hassig, C.A., Ayer, D.E., Schreiber, S.L. and Evans, R.M.  
**Cell** 89 (3): 373-380 (1997)

8. Lack of induction of tissue transglutaminase but activation of the preexisting enzyme in c-myc-induced apoptosis of CHO cells

Balajthy, Z., Kedei, N., **Nagy, L.**, Davies P.J.A and Fesus, L.

**Biochem. Biophys. Res. Comm.** 236:280-284 (1997)

9. Nuclear receptor co-activator ACTR is a novel histone acetyltransferase and forms a multimeric activation complex with P/CAF and CBP/p300

Chen, H., Lin, R., Schiltz, L., Chakravarti, D., Nash, A., **Nagy, L.**, Privalsky, M.L., Nakatani, Y. and Evans, R.M.

**Cell** 90 (3): 569-580 (1997)

10. The promoter of the mouse tissue transglutaminase gene directs tissue-specific, retinoid regulated and apoptosis linked expression

**Nagy, L.**, Thomazy, A.V., Saydak, M.M., Stein, J.P. and Davies, P.J.A.

**Cell Death and Differentiation** 4 (7): 534-547 (1997)

## 1998

11. TNF- $\alpha$  modulates expression of the tissue transglutaminase gene in liver cells

Kuncio, GS., Tsyganskaya, M., Zhu, J., Liu, S-L., **Nagy, L.**, Thomazy, VA., Davies, PJA. And Zern, MA

**American Journal of Physiology** 37(2): G240-252 (1998)

12. Retinoid-induced apoptosis in normal and neoplastic tissues

**Nagy, L.**, Thomazy, V.A., Heyman, R.A and Davies, P.J.A.

**Cell Death and Differentiation** 5(1): 11-19 (1998) INVITED REVIEW

13. A transgenic mouse model for the study of apoptosis during limb development

**Nagy, L.**, Thomazy, V. A, and Davies, P.J.A.

**Cell Death and Differentiation** 5(1): 126 (1998) INVITED REVIEW

14. Role of the histone deacetylase complex in Acute Promyelocytic Leukemia

Lin, J.R., **Nagy, L.**, Satoshi, I., Shao, W., Miller, W., and Evans, R.M.

**Nature** 391:811-814 (1998)

15. Oxidized LDL regulates macrophage gene expression through ligand activation of PPAR $\gamma$

**Nagy, L.**, Tontonoz, P., Alvarez, JGA., Chen, H. and Evans, RM.

**Cell** 93(2): 229 -240 (1998)

16. PPAR $\gamma$  promotes monocyte/macrophage differentiation and uptake of oxidized LDL

Tontonoz, P.\*, **Nagy, L.\***, Alvarez, JGA., Thomazy, VA. and Evans, RM.

**Cell** 93(2): 241 - 252 (1998)

\* joint first authors

## 1999

17. Essential roles of retinoic acid signaling in interdigital apoptosis and control of BMP-7 expression in mouse autopods

Dupe, V., Ghyselinck, N.B., Thomazy, V., **Nagy, L.**, Davies, P.J.A., Chambon, P. and Mark, M.

**Developmental Biology** 208:30-43 (1999)

18. Regulation of macrophage gene expression by PPAR $\gamma$ : implications for cardiovascular disease

Tontonoz, P and **Nagy, L.**

**Current Opinion in Lipidology** 10(6):485-490 (1999) INVITED REVIEW

19. Molecular mechanisms of nuclear hormone receptor action in health and disease

**Nagy, L.**

**B.I.F. Futura** (Boehringer Ingelheim Funds) 14:257-265 (1999) INVITED REVIEW

20. Mechanism of co-repressor binding and release from nuclear hormone receptors  
**Nagy, L.**, Kao H-Y., Love, JD, , Li, C., Banayo, E., Gooch, JT., Chatterjee, VKK, Evans, RM and Schwabe, JWR

**Genes and Development** 13(24): 3209-3216 (1999)

## 2000

21. Transcriptional repression by nuclear receptors: mechanisms and role in disease

Love, J.D., Gooch, J.T., **Nagy, L.**, Chatterjee, V.K.K. And Schwabe, J.W.R

**Biochem. Soc. Trans.** 28: 390-396 (2000) INVITED REVIEW

22. A role for PPAR $\alpha$  in oxidized phospholipid induced synthesis of MCP-1 and IL-8 by endothelial cells

Lee, H, Shi, W, Tontonoz, P, Wang, S, Subbanagounder, G., Hedrick, L., Hama, S., Borromeo, C., Evans, RM., Berliner, JA and **Nagy, L.**

**Circulation Research** 87: 516-521 (2000)

23. Divergent signaling pathways regulate the promoter of tissue transglutaminase

Szegezdi, E, Szondy, Z, **Nagy, L.**, Nemes, Z., Friis, RR., Davies, PJA and Fesus, L.

**Cell Death and Differentiation** 7(12):1225-1233 (2000)

## 2001

24. PPAR $\gamma$  dependent and independent effects on macrophage gene expression in lipid metabolism and inflammation

Chawla, A., Barak, Y., **Nagy, L.**, Liao, D. Tontonoz, P., and Evans, RM

**Nature Medicine** 7(1):48-53 (2001)

25. Tissue specific effects of RXR and PPAR-gamma ligands on metabolic gene expression in diabetic rodents

Ahuja, HS, Crombie, DL, Boehm, M, Leibowitz, MD, Heyman, RA, Depre, C, **Nagy, L.**, Tontonoz, P and Davies, P.J.A.

**Molecular Pharmacology** 59 (4) 765-773 (2001)

26. A PPAR $\gamma$ -LXR-ABCA1 pathway in macrophages is involved in cholesterol efflux and atherogenesis

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.

**Molecular Cell** 7: 161-171 (2001)

## 2002

27. The structural basis for the specificity of retinoid-X-receptor selective agonists: new insights into the role of helix H12.

Love, J.D., Gooch, J.T., Benko, S., **Nagy, L.**, Chatterjee, V.K.K., Evans, R.M. and Schwabe, J.W.R.

**Journal of Biological Chemistry** 277(13):11385-11391 (2002)

28. Lipid sensors in atherosclerosis: The role of nuclear hormone receptors in disease progression

Szanto, A and **Nagy, L.**

**B.I.F. Futura** (Boehringer Ingelheim Funds) 17:129-136 (2002) INVITED REVIEW

## 2003

29. The retinoid X receptor and its ligands: versatile regulators of metabolic function, cell differentiation and cell death

Ahuja, A.S., Szanto, A., **Nagy, L.** and Davies, P.J.A.

**Journal of Biological Regulators and Homeostatic Agents** 17:29-45 (2003)

INVITED REVIEW

30. Molecular determinants of the balance between co-repressor and co-activator recruitment to the retinoic acid receptor

Benko S., Love, J.D., Beládi M., Schwabe, J.W.R. and **Nagy, L.**,

**Journal of Biological Chemistry** 278: 43797-43806 (2003)

## 2004

31. The mechanism of nuclear receptor molecular switch

**Nagy, L.** and Schwabe J.W.R.

**Trends in Biochemical Sciences** 29(6):317-324 (2004)

32. Activation of PPAR $\gamma$  specifies a dendritic cell subtype capable of enhanced induction of iNKT cell expansion

Szatmari, I., Gogolak, P., Im, S. J., Dezso, B., Rajnavolgyi, E. and **Nagy, L.**

**Immunity** 21:95-106 (2004)

33. Transcriptional regulation of human CYP27 integrates retinoid, PPAR and LXR signaling

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.**

**Molecular and Cellular Biology** 24(18):8154-8166 (2004)

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

## 2005

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

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

37. Genome-wide localization of histone 4 arginine 3 methylation in a differentiation primed myeloid leukemia cell line.  
Balint L. B., Gabor, P. and **Nagy, L.**  
**Immunobiology** 210:141-152 (2005)

38. Flow cytometric detection of intracellular coagulation factor XIII-A: its utilization in the diagnosis and monitoring of monocytic acute myeloid leukemias.  
Kappelmayer, J., Simon, A., Katona, E., Szanto, A., **Nagy, L.**, Kiss, A., Kiss, Cs. and Muszbek, L.  
**Thrombosis and Haemostasis** 94(2):454-459 (2005)

39. Opposite expression of Factor XIII-A gene in classical and alternative activation of macrophages  
Torocsik, D., Bardos, H., **Nagy, L.** and Adany, R.  
**Cellular and Molecular Life Sciences** 62:2132-2139 (2005)

40. Atherosclerosis and lipid peroxidation (Editorial)  
**Nagy, L.** and Spiteller, G.  
**Molecular Nutrition and Food Research** 49: 989-991 (2005) EDITORIAL

41. Roles for lipid activated transcription factors  
**Nagy, L.** and Szanto, A  
**Molecular Nutrition and Food Research** 49:1072-1074 (2005) INVITED REVIEW

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

## 2006

43. SLAM/SLAM interactions inhibit CD40 induced production of inflammatory cytokine in monocyte derived dendritic cells

Réthi, B., Gogolák, P., Szatmári, I., Veres, A., **Nagy, L.**, Rajnavölgyi, E., Terhorst, C. and Lányi, A.

**Blood** 107: 2821-2829 (2006)

44. Selective modulators of PPAR activity as new therapeutic tools in metabolic diseases

Balint, L. B. and **Nagy, L.**

**Endocrine, Metabolic and Immune Disorders-Drug Targets** 6:33-43 (2006) INVITED REVIEW

45. Twenty years of nuclear receptors (Meeting report)

**Nagy, L.**, Schüle, R., and Gronemeyer, H.

**EMBO Reports** 7(6): 579-584 (2006)

46. PPAR $\gamma$ , a lipid activated transcription factor as a regulator of dendritic cell function

Szatmari, I., Rajnavolgyi, E. and **Nagy, L.**

**Annals of the New York Academy of Sciences** 1088: 207-218 (2006) INVITED REVIEW

47. ChIP on-beads: a robust flow-cytometry based method for the evaluation of chromatin immunoprecipitation results

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### **Patents:**

1. Compounds useful for the modulation of processes mediated by nuclear hormone receptors, methods for the identification and use of such compounds  
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2. Use of RAR antagonists as modulators of hormone mediated processes  
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### **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)