

## SZAKMAI ÖNÉLETRAJZ



Dr. Nagy László

### **Munkahely:**

Debreceni Egyetem  
Orvos- és Egészségtudományi Centrum  
Általános Orvosi Kar  
Biokémiai és Molekuláris Biológiai Intezet  
Élettudományi Épület 3.210  
Debrecen, 4010  
Egyetem tér 1.  
Telefon: (52)-416-432  
Fax: (52)-314-989  
E-mail: [nagyl@med.unideb.hu](mailto:nagyl@med.unideb.hu)  
Web: <http://nlab.med.unideb.hu>

**Állampolgárság:** magyar

### **Legmagasabb iskolai végzettsége és tudományos fokozatai:**

**Az MTA Rendes tagja (2013)**

**Az MTA Levelező tagja (2007)**

**Habilitált Doktor (Dr. habil.) 6/2006 (2006)**  
Debreceni Egyetem  
(Elméleti orvostudomány)

**MTA Doktora (D.Sc) 4.481 (2005)**

Biológiai tudományok (biokémia és  
molekuláris biológia)

**Egyetemi doktor (Ph.D.)** [G 44-138/ 1995]  
Sejt- és Molekuláris biológia  
(*Summa cum laude*) DOTE (1995)

**Általános orvos** [35-117/91]  
(*Summa cum laude*) DOTE (1991)

**Nyelvismeret:** angol felsőfok (C), Államilag Elismert Nyelvvizsga A025784-  
019455  
orosz középfok, Állami Nyelvvizsga A 096533/1987

**Beosztásai és munkahelyei:**

**Jelenlegi:**

**Director of Genomic Control and Metabolism Program**

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

**Egyetemi tanár**, Debreceni Egyetem, Orvos- és Egészségtudományi Centrum,  
Általános Orvostudományi Kar, Biokémiai és Molekuláris Biológiai Intézet (2006.  
szeptember 1 -)

**A Debreceni Klinikai Genomközpont szakmai vezetője**

(2001. július 1-)

**Múltbeli:**

**Fulbright Scholar**

Visiting Scientist, The Salk Institute for Biological Studies (September 1, 2010- June 30,  
2011)

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

(2001. január 1-2011. december 31.)

**Adjunct Professor of Pharmacology and Physiology**

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

**Wellcome Trust International Senior Research Fellow** (2004. november 1 – 2010.  
október 31.)

Egyetemi docens, Debreceni Egyetem, Orvos- és Egészségtudományi Centrum, Általános Orvosi Kar, Biokémiai és Molekuláris Biológiai Intézet (2000. július 1- 2006. augusztus 31.)

Egyetemi adjunktus, Debreceni Egyetem, Orvos- és Egészségtudományi Centrum, Általános Orvosi Kar, Biokémiai és Molekuláris Biológiai Intézet (1999. október 1- 2000. június 30.)

Tudományos ösztöndíjas, The Salk Institute for Biological Studies, Gene Expression Laboratory, La Jolla, CA, USA (1996. április 22- 1999 szeptember 14.)

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

Egyetemi tanársegéd, DOTE Biokémiai és Molekuláris Biológiai Intézet (1995 április 1- 1999. szeptember 30.)

Tudományos ösztöndíjas, Department of Pharmacology, University of Texas, Houston, Medical School, USA.  
Special Fellowship for East-European Fellows, University of Texas-Houston, Medical School (6 hónap)  
(1992- 1995)  
Témavezető: Peter J.A. Davies M.D., Ph.D.

TMB ösztöndíjas, DOTE Biokémiai Intézet (1991 október -1994 szeptember)  
Témavezető: Dr Fésüs László egyetemi tanár

**Iskolái:**

Egyetemi hallgató, DOTE Általános orvosi kar (1985-1991)  
Gimnáziumi tanuló, Tóth Árpád Gimnázium, Debrecen (1981-1985)

**Kitüntetések, díjak:**

**Pro Scientia Aranyérem** (1989)

**Weszprémi-díj** DOTE (1991)

**Cheryl Whitlock/Pathology Prize**, Stanford University (1998)

**Boehringer Ingelheim Research Award** (1999)

**Széchenyi Professzori Ösztöndíj** (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)

**Széchenyi István Ösztöndíj** (2003-2006)

**Wellcome Trust International Senior Research Fellow** (2005-2009)

**Legjobb klinikai témájú közlemény díja** (Debreceni Egyetem OEC 2004)

**EMBO, tag (2007)**

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

**Fulbright Scholar (2010-2011)**

**Tankó Béla-díj (2014)**

**Szerkesztői és bírálói tevékenység**

A *FEBS Letters*, szerkesztője (2005-)

A *PPAR Research*, tanácsadó szerkesztője (2007-)

*European Journal of Clinical Investigation*, szerkesztőbizottsági tag (2009-)

*EMBO Reports*, Advisory Editorial Board, tag (2010-)

*Cell Death and Disease*, Advisory Editorial Board, tag (2010-)

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

**Ad hoc bíráló a következő folyóiratoknak és szervezeteknek:**

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  
Nuclear Receptor Signaling  
Proceedings of the National Academy of Sciences of the USA  
PLoS ONE  
Science  
Science Signaling  
WIREs Systems Biology and Medicine

**Tudományos pályázatok:**

Boehringer Ingelheim Funds  
Európai Unió Framework Programmes (szakértő, bíráló)  
OTKA (zsűri tag, bíráló)  
EMBO  
National Science Foundation (NSF) (USA)  
Wellcome Trust (UK)  
NWF (Hollandia)  
Semmelweis Egyetem  
MTA Bolyai Ösztöndíj Bizottság  
Medical Research Council (UK)  
Luxembourg National Research Fund  
Spanish Ministry of Health  
Austrian Science Fund  
Science Foundation of Ireland  
National Institutes of Health (intramural research) (USA)

**Jelenleg futó pályázatok**

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

FP7-People-2013-ITN (MULTI-ITN)

Grant Ag. No: 606806 (GA: PITN-GA-2013-6068026)

390,193.76 EUR

(October 1, 2013- September 30, 2017)

**Visegrad-Taiwan Collaborative Grant**

“Identification of novel biomarkers for the development and progression of atherosclerosis”

# 21280006

EUR 80,000

(2013-2017)

**MTA-DE “Lendület” Immunogenomics Research Group**

HUF 216 ,000,000 = EUR 800,000

(2012-2017)

**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)

**Hungarian Scientific Research Fund (OTKA) K111941**

The role of macrophage PPAR $\gamma$  in muscle regeneration

HUF 33,000,000

(2015-2017)

**Hungarian Brain Research Program (NAP) KTIA\_13\_NAP-A-I/9.**

Nemzeti Agykutatási Program - Agykutatási Kiválósági Központok fejlesztése ; Nagy

L.-Simándi kutatócsoport: Egy új, neuron specifikus arginin-metiltranszferáz, a

PRMT8, molekuláris-, sejt-szintű és in vivo karakterizálása

HUF 20,000,000

(2013-2017)

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

Biomiszimiláris monoklonális antitestek fejlesztése

HUF 140,000,000

(2014-2017)

**Befejezett pályázatok**

**TAMOP/4.2.2A/11/1/KONV-2012-0023, Hungarian Government**

DEFENSE-NET

System level studies on the cellular networks providing immune defense in humans

HUF 848,464,495= EUR 3,000,000

(2012-2014)

Program project involving 15 other research groups

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

MOLMEDREX Development of the Research Center for Molecular Medicine of the

University of Debrecen, Medical and Health Science Center

EUR 970,000 (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)  
Program project involving 10 other research groups

**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)

**Kutatás és fejlesztési tevékenységek (kollaboráció):**

**Befejezett:**

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

NKFP

840,000,000 HUF= EUR 2,900,000 (2008-2012)

**Biosystems International SAS, France**

Comprehensive pilot and biomarker early validation studies for COPD GPCR target and biomarker discovery

(2005-2007) EUR 165,000

**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) EUR 340,000

**Richter Gedeon Ltd, Hungary**

0980699 Global gene expression analysis on rat liver

5,000,000 HUF (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) USD 164,000

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

Analysis of GBP-15 in PPAR regulated processes

(2004) 300,000 HUF

**Biorex Rt., Hungary**

Development of quantitative PCR assays

(2001-2002) HUF 2 M (USD 7,000)

**PhD disszertációk:**

Gina Clayton (University of Cambridge), opponens (2002)

Nusser Nóra (PTE), opponens (2005)

Újhelly Olga (SE), opponens (2005)

Fábián Zsolt (PTE), opponens (2006)

Geiger Zoltán (DE), elnök (2007)  
Pál Ákos (SzTE), opponens (2007)  
Hodrea Judit (DE), elnök (2011)

**MTA doktori disszertációk:**

Sass Miklós (ELTE), a bizottság titkára (2005)  
Góth László (DE), a bizottság tagja (2007)  
Széll Márta (SzTE), opponens (2009)  
Molnár Béla (SE), a bizottság elnöke (2010)

**Tanácsadói és szakértői megbízások:**

Nemzeti Kutatásfejlesztési Program 1.(NKFP) programtanács, tag (2002-2004)  
DE OEC Sejtterápiás Központ Tudományos Tanácsadó Testület, tag (2004-)  
BioSystems International SAS, tanácsadó (2005-2007)  
Gerson Lehrman Group Councils, Austin TX, USA, tag (2006-)  
UD-GenoMed Kft, tudományos igazgató (2007-)  
Richter NyRt. Tudományos Tanács, tag (2008-)  
International Society for Dendritic Cell and Vaccine Research, tanácsadó testületi tag (2010-)  
MTA SzBK Genetika Intézet Tudományos Tanácsadó Testület, tag (2010-)

**Szakmai és egyetemi testületi megbízások:**

DE OEC Tudományos Bizottság, tag (2000-)  
MTA Sejt- és Fejlődésbiológiai Bizottság, titkár (2000-2005), elnök (2005-2008)  
OTKA Infraindividuális (IB1) Zsúri, tag (2002-2004)  
OTKA Kórtani (KÓR) Zsúri, tag (2005-2007)  
OTKA Kísérletes Orvostudományi (KISOR) Zsúri, tag (2007-2009)  
DE Doktori és Habilitációs Tanács, elnök (2007-2010)  
Genomikai Nemzeti Technológiai Platform vezetője (2008-)  
OTKA Élettudományi Kollégium Tagja (2010-)  
DE Kutatóegyetemi Koordinációs Tanács tag (2009-)  
DE Tudományos és Kutatóegyetemi Tanács, tag (2010-)

**Tagság szakmai szervezetekben:**

Magyar Biokémiai Egyesület, tag 1989 óta.  
Pro Scientia Aranyérmesek Társasága, tag 1995 óta.  
Endocrine Society, tag, 2002 óta  
European Macrophage and Dendritic Cell Society, tag 2002 óta  
American Society of Biochemistry and Molecular Biology, tag 2003 óta  
Magyar Bioinformatikai Társaság, alapító tag,  
elnökségi tag, (2006-2010)  
Magyar Személyreszabott Medicina Társaság, alapító és vezetőségi tag (2010-)

**Konferenciaszervező tevékenység:**

- EMBO Conference on Nuclear Receptors Nice, France 2003 (szervezőbizottsági tag)

- World Congress on Basic and Clinical Immunogenomics, Budapest 2004 (szimpózium szervező)
- EMBO Conference on Nuclear Receptors Lake Garda, Italy 2005 (szervezőbizottsági tag)
- Atherosclerosis and lipid peroxidation Debrecen-Hortobágy, 2005 (szervező)
- FEBS-IUBMB Congress Budapest, 2005 (szimpózium szervező)
- UD-HHMI Modern methods of gene expression detection and data integration, Debrecen 2006 (kurzus igazgató)
- EMBO Conference on Nuclear Receptors, Lake Garda, Italy 2007 (szervezőbizottsági tag)
- EMBO Conference on Nuclear Receptors, Dubrovnik 2009 (szervező)
- International Congress of Immunology, Kobe Japan, 2010 (szimpozium szervező)
- FEBS-UD Gene expression regulation and data integration, Debrecen 2011 (kurzus igazgató)

### **Témavezetés:**

### **Tudományos Diákkör (TDK)**

### **Diplomamunka és Tudományos Diákkör (MD vagy MSc fokozatot szerzett hallgatók)**

*(zárójelben a védés éve illetve a PhD tanulmányok kezdete)*

Hsun Hua Chou (Salk Institute - UCSD) (1998)  
Buslig Júlia (Kolozsvári Egyetem-DE) (2001)  
Póliska Szilárd (2002)  
Bagoly Péter (Kolozsvári Egyetem-DE) (2004)  
Pap Attila (2004)  
Széles Lajos (2003)  
Szántó Attila (2001)  
Paragh György (2003)  
Töröcsik Dániel (2003)  
Kónya Gabriella (2006)  
Gábor Petra (2006)  
Farkas Anita (2008)  
Meskó Bertalan (2009)

### **További PhD hallgatók**

Karacs Péter (2004)  
Andreas Patsalos (2013-)

### **PhD fokozatot szerzett:**

Benkő Szilvia (2004)  
Szántó Attila (2005)  
Bálint L. Bálint (2006)

Széles Lajos (2009)  
Töröcsik Dániel (2010)  
Póliska Szilárd (2011)  
Meskó Bertalan (2012)  
Brázda Péter (2014)  
Simándi Zoltán (2015)  
Dániel Bence (2015)  
Oros Melinda (2016)

**Posztdoktor munkatársak:**

Szatmári István (2001-2007)  
Ralph Ruehl (német) (2003-2006)  
Szántó Attila (2005-2009)  
Britt Nakken (norvég) (2005-2008)  
Bálint L. Bálint (2006-)  
Röszer Tamás (2005- 2009)  
Varga Tamás (2007-)  
Barta Endre (2009-)  
Nagy Zsuzsanna (2010-)  
Frank Batista (francia, kubai) (2014-)

**Publikációk:  
Eredeti Cikkek**

**1991**

1. Retinoic Acid Receptor Transcripts in Human Umbilical Vein Endothelial Cells  
Fesus, L., **Nagy, L.**, Basilion, J. and Davies, P.J.A.  
**Biochemical and Biophysical Research Communications** 179:32-38 (1991)  
IF: 2.872

**1995**

2. 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)  
IF: 10.727

**1996**

3. 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)  
IF: 7.452
4. 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)  
IF: 1.423

5. 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)  
IF: 2.635

**1997**

6. 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)  
IF: 37.297
7. 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.  
**Biochemical and Biophysical Research Communications** 236:280-284 (1997)  
IF: 2.671
8. 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)  
IF: 37.297
9. 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)  
IF: 5.247
- 1998**
10. 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)  
IF: 3.077
11. 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)  
IF: 4.021
12. 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)

IF: 28.833

13. 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)  
IF: 38.686
14. 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  
IF: 38.686

### 1999

15. 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)  
IF: 6.049
16. 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)  
IF: 19.220

### 2000

17. 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)  
IF: 9.193
18. Apoptosis-linked in vivo regulation of the tissue transglutaminase gene promoter  
Szegezdi, E., Szondy, Z., **Nagy, L.**, Nemes, Z., Friis, RR., Davies, PJA and Fesus, L.  
**Cell Death and Differentiation** 7(12): 1225-1233 (2000)  
IF: 7.785

### 2001

19. 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)  
IF: 27.906
20. 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)  
IF: 16.611
21. Differential effects of rexinoids and thiazolidinediones on metabolic gene expression in diabetic rodents  
Ahuja, H.S., Liu, S., Crombie, D.L., Boehm, M., Leibowitz, M.D., Heyman, R. A., Depre, C., **Nagy, L.**, Tontonoz, P., Davies, P.J.A.  
**Molecular Pharmacology** 59: pp. 765-773. (2001)  
IF: 5.297

### 2002

22. 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)  
IF: 6.696

### 2003

23. 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)  
IF: 6.482

### 2004

24. 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)



IF: 15.448

25. 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)  
IF: 7.822

## 2005

26. 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)  
IF: 4.612
27. 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., Puskas, L., Davies, P.J.A. and **Nagy, L.**,  
**Molecular and Cellular Biology** 25:5648-5663 (2005)  
IF: 7.093
28. 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)  
IF: 1.812
29. Coagulation factor XIII-A: A flow cytometric intracellular marker in the classification of 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)  
IF: 3.056
30. Identification of factor XIII-A as a marker of alternative macrophage activation  
Torocsik, D., Bardos, H., **Nagy, L.** and Adany, R.  
**Cellular and Molecular Life Sciences** 62:2132-2139 (2005)  
IF: 4.812
31. 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)

IF: 2.477

**2006**

32. 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)  
IF: 10.370
33. ChIP on-beads: a robust flow-cytometry based method for the evaluation of chromatin immunoprecipitation results  
Szekvolgyi, L., Balint L.B., Imre, L., Goda, K., Szabo, M., **Nagy, L.**, and Szabo, G.  
**Cytometry Part A** 69A: 1086-1091 (2006)  
IF: 3.293
34. PPAR $\gamma$  regulated ABCG2 expression confers cytoprotection to human dendritic cells  
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.**  
**Journal of Biological Chemistry** 281:23812-23823 (2006)  
IF: 5.808
35. PPAR $\gamma$  controls CD1d expression by turning on retinoic acid synthesis in developing human dendritic cells  
Szatmari, I., Pap, A., Ruehl, R., Ma, J.X., Illarionov, P.A., Besra, G.S., Rajnavolgyi, E., Dezso, B. and **Nagy, L.**  
**Journal of Experimental Medicine** 203:2351-2362 (2006)  
IF: 14.484
36. Non-DNA binding, dominant-negative, human PPAR $\gamma$  mutations cause lipodystrophic insulin resistance  
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.  
**Cell Metabolism** 4:303-311 (2006)  
IF: 16.710

**2007**

37. Differentiation of CD1a<sup>-</sup> and CD1a<sup>+</sup> monocyte-derived dendritic cells is biased by lipid environment and PPAR $\gamma$   
Gogolak, P., Rethi, B., Szatmari, I., Lanyi, A., Dezso, B., **Nagy, L.**, Rajnavolgyi, E.  
**Blood** 109:643-652 (2007)  
IF: 10.896
38. Ribonucleoprotein-masked nicks at 50 kbp intervals in the eukaryotic genomic DNA  
Szekvolgyi, L., Rakosy, Z., Balint L., B., Kokai, E., Imre, L., Vereb, G., Bacso, Z., Goda, K., Balazs, M., Dombardi, V., **Nagy, L.** and Szabo, G.  
**Proceedings of the National Academy of Sciences of the United States of America** 104:14964-14969 (2007)  
IF: 9.598
39. PPAR $\gamma$  regulates the function of human dendritic cells primarily by altering lipid metabolism  
Szatmari, I., Torocsik, D., Agostini, M., Nagy, T., Gurnell, M., Barta, E., Chatterjee, K.K.V. and **Nagy, L.**  
**Blood** 110:3271-3280 (2007)  
IF: 10.896
40. Monoclonal antibody proteomics: discovery and prevalidation of chronic obstructive pulmonary disease biomarkers in a single step  
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.  
**Electrophoresis** 28(23): 4401-4407 (2007)  
IF: 3.609
- 2008**
41. Functional ABCG1 expression induces apoptosis in macrophages and other cell types  
Seres, L., Cserepes, J., Elkind, N.B., Torocsik, D., **Nagy, L.**, Sarkadi, B. and Homolya, L.  
**Biochimica et Biophysica Acta -Biomembranes** 1778(10): 2378-2387 (2008)  
IF: 4.180
42. Structural basis for the activation of PPAR $\gamma$  by oxidized fatty acids  
Itoh, T., Fairall, L. Amin, A., Inaba, Y., Szanto, A., Balint, L.B., **Nagy, L.** Yamamoto, K. and Schwabe, J.W.R.  
**Nature Structural and Molecular Biology** 15:924-931 (2008)  
IF: 10.987

43. Endocannabinoids enhance lipid synthesis in human sebocytes via cannabinoid receptor-2-mediated signaling

Dobrosi, N., Toth, B.I., Kosa, A., Geczy, T, Nagy, G., Dozsa, A., **Nagy, L.**, Zouboulis, C.C., Paus, P., Kovacs, L., and Biro, T.

**The FASEB Journal** 22:1-11 (2008)

IF: 7.049

#### 2009

44. Transient Receptor Potential Vanniloid-1 signaling as a regulator of human sebaceous gland biology

Toth, B.I., Geczy, T, Griger, Z, Dozsa, A, Seltmann, H, Kovacs, L., **Nagy, L.**, Zouboulis, C.C., Paus, R and Biro, T.

**Journal of Investigative Dermatology** 129:329-339 (2009)

IF: 5.543

45. 1,25-dihydroxyvitaminD3 is an autonomous regulator of the transcriptional changes leading to a tolerogenic dendritic cell phenotype

Szeles, L., Keresztes, G., Torocsik, D., Balajthy, Z., Krenacs, L., Poliska, S., Steinmeyer, A., Zuegel, A., Pruenster, M., Rot, A. and **Nagy, L.**

**The Journal of Immunology** 182(4): 2074-2083 (2009)

IF: 5.646

46. Mycobacterium bovis Bacillus Calmette-Guerin infection induces TLR2-dependent PPAR $\gamma$  expression and activation: functions in inflammation, lipid metabolism and pathogenesis

Almeida, P.E., Silva, A.R., Monteiro, C.M., Torocsik, D., D'Avila, H., Dezso, B., Magalhães, K.G, Castro-Faria-Neto, H.C., **Nagy, L.**, and Bozza, P.T.

**The Journal of Immunology** 183:1337-1345 (2009)

IF: 5.646

#### 2010

47. Peripheral blood gene expression patterns discriminate among chronic inflammatory diseases and healthy controls and identify novel targets

Mesko, B., Poliska, S., Szegedi, A., Szekanecz, Z., Palatka, K., Papp, M., **Nagy, L.**

**BMC Medical Genomics** 3: p. 15. (2010)

IF: 3.766

48. Analyses of association between PPAR gamma and EPHX1 polymorphisms and susceptibility to COPD in a Hungarian cohort, a case-control study.

Penyige, A., Poliska, S., Csanky, E., Scholtz, B., Dezso, B., Schmelczer, I., Kilty, I., Takacs, L., **Nagy, L.**

**BMC Medical Genetics** 11: p. 152. (2010)

IF: 2.439

49. Activation of retinoic acid receptor signaling coordinates lineage commitment of spontaneously differentiating mouse embryonic stem cells in embryoid bodies  
Simandi, Z., Balint, B.L., Poliska, S., Ruhl, R., **Nagy, L.**  
**FEBS Letters** 584:(14) pp. 3123-3130. (2010)  
IF: 3.601
50. STAT6 transcription factor is a facilitator of the nuclear receptor PPAR $\gamma$ -regulated gene expression in macrophages and dendritic cells  
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., **Nagy, L.**  
**Immunity** 33:(5) pp. 699-712. (2010)  
IF: 24.221
51. Activation of liver X receptor sensitizes human dendritic cells to inflammatory stimuli  
Torocsik, D., Barath, M., Benko, S., Szeles, L., Dezso, B., Poliska, S., Hegyi, Z., Homolya, L., Szatmari, I., Lanyi, A., **Nagy, L.**  
**The Journal of Immunology** 184:(10) pp. 5456-5465. (2010)  
IF: 5.745
52. Factor XIII-A is involved in the regulation of gene expression in alternatively activated human macrophages  
Torocsik, D., Szeles, L., Paragh, G. Jr., Rakosy, Z., Bardos, H., **Nagy, L.**, Balazs, M., Inbal, A., Adany, R.  
**Thrombosis and Haemostasis** 104: (4) pp. 709-717. (2010)  
IF: 4.701
53. Research Resource: Transcriptome Profiling of Genes Regulated by RXR and Its Permissive and Nonpermissive Partners in Differentiating Monocyte-Derived Dendritic Cells  
Szeles, L., Poliska, S., Nagy, G., Szatmari, I., Szanto, A., Pap, A., Lindstedt, M., Santegoets, S.J.A.M., Ruhl, R., Dezso, B., **Nagy, L.**  
**Molecular Endocrinology** 24:(11) pp. 2218-2231. (2010)  
IF: 4.889
54. Magyar szkizofrénia-biobank a szkizofréniakutatás és a személyre szabott orvoslás szolgálatában  
Inczedy-Farkas, G., Benkovits, J., Balogh, N., Almos, P., Scholtz, B., Zahuczky, G., Torok, Z., Nagy, K., Rethelyi, J., Makkos, Z., Kassai-Farkas, A., Egerhazy, A., Tuzko, J., Janka, Z., Bitter, I., Nemeth, G., **Nagy, L.**, Molnar, M.J.  
**Orvosi Hetilap** 151: (35) pp. 1403-1408. (2010)

## 2011

55. Live cell fluorescence correlation spectroscopy dissects the role of coregulator

- exchange and chromatin binding in retinoic acid receptor (RAR) mobility  
Brazda, P., Szekeres, T., Bravics, B., Toth, K., Vamosi, G., **Nagy, L.**  
**Journal of Cell Science** 124:(Pt21) pp. 3631-3642. (2011)  
IF: 6.111
56. Peroxisome Proliferator-Activated Receptor gamma-Regulated Cathepsin D Is Required for Lipid Antigen Presentation by Dendritic Cells  
Nakken, B., Varga, T., Szatmari, I., Szeles, L., Gyongyosi, A., Illarionov, P., Dezso, B., Gogolak, P., Rajnavolgyi, E., **Nagy, L.**  
**The Journal of Immunology** 187: (1) pp. 240-247. (2011)  
IF: 5.788
57. Structural basis for the assembly of the SMRT/NCoR core transcriptional repression machinery  
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., Schwabe, J.W.R.  
**Nature Structural & Molecular Biology** 18 :(2) pp. 177-184. (2011)  
IF: 12.712
58. COPD-specific gene expression signatures of alveolar macrophages and also peripheral blood monocytes overlap and correlate with lung function  
Poliska, S., Csanky, E., Szanto, A., Szatmari, I., Mesko, B., Szeles, L., Dezso, B., Scholtz, B., Podani, J., Kilty, I., Takacs, L., **Nagy, L.**  
**Respiration** 81:(6) pp. 499-510. (2011)  
IF: 2.258
- 2012**
59. Association of Peroxisome Proliferator-activated Receptor Gamma Polymorphisms to Inflammatory Bowel Disease in a Hungarian cohort  
Poliska, S., Penyige, A., Lakatos, P.L. the Hungarian IBD Study Group, Papp, M., Palatka, K., Lakatos, L., Molnar, T. and **Nagy, L.**  
**Inflammatory Bowel Diseases** 18: (3) pp. 472-479. (2012)  
IF: 5.119
60. Peripheral blood gene expression and IgG glycosylation profiles as markers of tocilizumab treatment in rheumatoid arthritis  
Mesko, B., Poliska, S., Szamosi, S., Szekanecz, Z., Podani, J., Varadi, C., Guttman, A. and **Nagy, L.**  
**The Journal of Rheumatology** 39: (5) pp. 916-928. (2012)  
IF: 3.258
61. Ethanol increases phosphate-mediated mineralization and osteoblastic transformation of vascular smooth muscle cells  
Oros, M., Zavaczki, E., Vadasz, C., Jeney, V., Tosaki, A., Lekli, I., Balla,

- G., **Nagy, L.** and Balla, J.  
**Journal of Cellular and Molecular Medicine** 16(9): 2219-2226 (2012)  
IF: 4.753
62. Identification of novel markers of human alternative macrophage activation including potential endogenous PPAR $\gamma$  ligand production mechanisms  
Czimmerer, Z., Varga, T., Poliska, S., Nemet, I., Szanto, A. and **Nagy, L.**  
**Immunobiology** 217: 1301-1314 (2012)  
IF: 2.814
63. Carboxypeptidase-M is regulated by lipids and CSFs in macrophages and dendritic cells and expressed selectively in tissue granulomas and foam cells.  
Tsakiris, I., Torocsik, D., Gyongyosi, A., Dozsa, A., Szatmari, I., Szanto, A., Soos, G., Nemes, Z., Igali, L., Marton, I., Takats, Z., **Nagy, L.**, Dezsó, B.  
**Laboratory Investigation** 92: (3) pp. 345-361. (2012)  
IF: 3.961
64. PPAR-gamma heterozygosity does not impair EPC mobilization  
Kotlinowski, J., Grochot-Przeczek, A., Kozakowska, M., Pilecki, B., Zuba-Surma, E., Derlacz, R., Pap, A., **Nagy, L.**, Dulak, J., Jozkowicz, A.  
**Vascular Pharmacology** 56: (5-6) 347-348. (2012)  
IF: 3.212
- 2013**
65. A versatile method to design stem-loop primer-based quantitative PCR assays for detecting small regulatory RNA molecules  
Czimmerer, Z., Hulvely, J., Simandi, Z., Varallyay, E., Havelda, Z., Szabo, E., Varga, A., Dezsó, B., Balogh, M., Horvath, B., Balint Domokos, B., Torok, Z., **Nagy, L.**, and Balint, B.L.  
**PLOS One** 8(1) e55168 (2013)  
IF: 3.534
66. Genome wide mapping reveals PDE4B as an IL-2 induced STAT5 target gene in activated human PBMCs and lymphoid cancer cells  
Nagy, Z.S, Ross, J, Rodriguez, G., Balint L.B., Szeles, L., **Nagy, L.** and Kirken, R.A.  
**PLOS One** 8(2) e57326 (2013)  
IF: 3.534
67. Pro-inflammatory cytokines negatively regulate PPAR $\gamma$  mediated gene expression in both human and murine macrophages via multiple mechanisms  
Nagy, Z., Czimmerer, Z. and **Nagy, L.**,  
**Immunobiology** 218: (11) pp. 1336-1344. (2013)  
IF: 3.180

68. Peripheral blood derived gene panels predict response to infliximab in rheumatoid arthritis and Crohn's disease  
Mesko, B., Poliska, S., Vancsa, A., Szekanecz, Z., Palatka, K., Hollo, Z., Horvath, A., Steiner, L., Zahuczky, G., Podani, J., and **Nagy, L.**  
**Genome Medicine** 5: (59) pp. 1. (2013)  
IF: 4.942  
The paper is featured on the cover of the journal.  
HIGHLY ACCESSED
69. A novel method to predict regulatory regions based on histone mark landscapes in macrophages  
Nagy, G., Daniel, B., Jonas, D., **Nagy, L.** and Barta, E.  
**Immunobiology** 218: (11) pp. 1416-1427. (2013)  
IF: 3.180
70. RDH10, RALDH2 and CRABP2 are required components of PPAR $\gamma$ -directed all-trans-retinoic acid synthesis and signaling in human dendritic cells  
Gyongyosi, A., Szatmari, I., Pap, A., Dezso, B., Pos, Z., Szeles, L., Varga, T. and **Nagy, L.**  
**Journal of Lipid Research** 54: (9) pp. 2458-2474. (2013)  
IF: 4.730
71. Hmgb1 can facilitate activation of the matrilin-1 gene promoter by Sox9 and L-Sox5/Sox6 in early steps of chondrogenesis  
Szenasi, T., Kenesi, E., Nagy, A., Molnar, A., Balint, B., Zvara, A., Csabai, Z., Deak, F., Boros Olah, B., Mates, L., **Nagy, L.**, Puskas, G.L., Kiss, I.  
**Biochimica et Biophysica Acta - Gene Regulatory Mechanisms** 1829: (10) pp. 1075-1091. (2013)  
IF: 5.440
72. Reprogramming of lysosomal gene expression by interleukin-4 and Stat6.  
Brignull, L.M., Czimmerer, Z., Saidi, H., Daniel, B., Vilella, I., Bartlett, N.W., Johnston, S.L., Meira, L.B., **Nagy, L.**, Nohturfft, A.  
**BMC Genomics** 14: Paper 853. (2013)  
IF: 4.041
73. Tissue LyC6- macrophages are generated in the absence of circulating LyC6-monocytes and Nur77 in a model of muscle regeneration.  
Varga, T., Mounier, R., Gogolak, P., Poliska, S., Chazaud, B., **Nagy, L.**  
**Journal of Immunology** 191:(11) pp. 5695-5701. (2013)  
IF: 5.362

## 2014

74. PPAR $\gamma$ -Mediated and Arachidonic Acid-Dependent Signaling is Involved in Differentiation and Lipid Production of Human Sebocytes.



- Dozsa, A., Dezso, B., Toth, B.I., Bacsi, A., Poliska, S., Camera, E., Picardo, M., Zouboulis, C.C., Biro, T., Schmitz, G., Liebisch, H., Ruhl, R., Remenyik, E., **Nagy, L.**  
**Journal of Investigative Dermatology** 134: (4) 910-920. (2014)  
IF: 7.216
75. Ligand binding shifts highly mobile RXR to chromatin-bound state in a coactivator-dependent manner as revealed by single cell imaging.  
Brazda, P., Krieger, J., Daniel, B., Jonas, D., Szekeres, T., Langowski, J., Toth, K., **Nagy, L.**, Vamosi, G.  
**Molecular and Cellular Biology** 34: (7) 1234-1245 (2014)  
IF: 4.777
76. Highly efficient differentiation of embryonic stem cells into adipocytes by ascorbic acid  
Cuaranta-Monroy, I., Simandi, Z., Kolostyak, Z., Doan-Xuan, Q-M., Poliska, S., Horvath, A., Nagy, G., Bacso, Z., Nagy, L.  
**Stem Cell Research** 13 (1), 88-97, 2014.  
IF: 3.693
77. The active enhancer network operated by liganded RXR supports angiogenic activity in macrophages  
Daniel, B., Nagy, G., Hah, N., Horvath, A., Czimmerer, Z., Poliska, S., Gyuris, T., Keirsse, J., Gysemans, C., Van Ginderachter, J.A., Balint, B.L., Evans, R.M., Barta, E., **Nagy, L.**  
**Genes and Development** 28 (14), 1562-1577, 2014.  
IF: 10.798
78. Mapping the genomic binding sites of the activated retinoid x receptor in murine bone marrow-derived macrophages using chromatin immunoprecipitation sequencing.  
Daniel, B., Balint, B.L., Nagy, Z., **Nagy, L.**  
**Methods in Molecular Biology – Steroid Receptors** 1204, 15-24, 2014.  
IF: -  
BOOK CHAPTER
79. PPAR $\gamma$  activation but not PPAR $\gamma$  haplodeficiency affects proangiogenic potential of endothelial cells and bone marrow-derived progenitors  
Kotlinowski, J., Grochot-Przeczek, A., Taha, H., Kozakowska, M., Pilecki, B., Skrzypek, K., Bartelik, A., Derlacz, R., Horrevoets, A.J.G., Pap, A., **Nagy, L.**, Dulak, J., Jozkowicz, A.  
**Cardiovascular Diabetology** 13: p. 150. (2014)  
IF: 4.015
80. Measuring expression levels of small regulatory RNA molecules from body fluids and formalin-fixed, paraffin-embedded samples

Gyongyosi, A., Docs, O., Czimmerer, Z., Orosz, L., Horvath, A., Torok, O., Mehes, G., **Nagy, L.**, Balint, B.L.

**Methods In Molecular Biology – RNA Mapping** 1182: pp. 105-119. (2014)

IF: -

## 2015

81. PRMT1 and PRMT8 regulate retinoic acid dependent neuronal differentiation with implication to neuropathology  
Simandi, Z., Czipa, E., Horvath, A., Koszeghy, A., Bordas, C., Poliska, S., Juhasz, I., Imre, L., Szabo, G., Dezso, B., Barta, E., Sauer, S., Karolyi, K., Kovacs, I., Hutoczky, G., Bogнар, L., Klekner, A., Szucs, P., Balint, B.L., **Nagy, L.**  
**STEM CELLS** 33 (3) pp. 726-741. (2015)  
IF: 6.523 (2014)
82. Combination of IgG N-glycomics and corresponding transcriptomics data to identify anti-TNF- $\alpha$  treatment responders in inflammatory diseases  
Varadi, C., Hollo, Z., Poliska, S., **Nagy, L.**, Szekanecz, Z., Vancsa, A., Palatka, K., Guttman, A.  
**Electrophoresis** 36:(11-12) pp. 1330-1335. (2015)  
IF: 3.028 (2014)
83. 9-cis-13,14-Dihydroretinoic Acid Is an Endogenous Retinoid Acting as RXR Ligand in Mice  
Ruhl, R., Krzyżosiak, A., Niewiadomska-Cimicka, A., Rochel, N., Szeles, L., Vaz, B., Wietrzych-Schindler, M., Alvarez, S., Szklenar, M., **Nagy, L.**, de Lera, A.R., Krężel, W.  
**PLOS Genetics** 11: (6) Paper e1005213. (2015)  
IF: 7.528 (2014)
84. Differentiation of Adipocytes in Monolayer from Mouse Embryonic Stem Cells  
Cuaranta-Monroy, I., Simandi, Z., Nagy, L.  
**Methods in Molecular Biology – Embryonic Stem Cell Protocols** 1341: pp. 407-415. (2015)  
IF: - (2014)

## 2016

85. Decreased peroxisome proliferator-activated receptor  $\gamma$  level and signalling in sebaceous glands of patients with acne vulgaris  
Dozsa, A., Mihály, J., Dezso, B., Csizmadia, E., Keresztessy, T., Marko, L., Ruhl, R., Remenyik, E., **Nagy, L.**  
**Clinical And Experimental Dermatology**  
Epub ahead of print 2016  
IF: 1.092 (2014)

## **Review Cikkek**

### **1994**

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

### **1998**

2. 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)  
IF: 4.021

### **1999**

3. 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)  
IF: 5.778
4. Molecular mechanisms of nuclear hormone receptor action in health and disease  
**Nagy, L.**  
**B.I.F. Futura** (Boehringer Ingelheim Funds) 14:257-265 (1999)  
IF: -

### **2000**

5. 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  
**Biochemical Society Transactions** 28: 390-396 (2000)  
IF: 0.975

### **2002**

6. 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)  
IF: -

**2003**

7. 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)  
IF: 0.748

**2004**

8. The mechanism of nuclear receptor molecular switch  
**Nagy, L.** and Schwabe J.W.R.  
**Trends in Biochemical Sciences** 29(6): 317-324 (2004)  
IF: 14.112
9. 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)  
IF: 8.192

**2005**

10. Roles for lipid-activated transcription factors in atherosclerosis  
**Nagy, L.** and Szanto, A.  
**Molecular Nutrition and Food Research** 49:1072-1074 (2005)  
IF: 2.071
11. Atherosclerosis and lipid peroxidation (Editorial)  
**Nagy, L.** and Spiteller, G.  
**Molecular Nutrition and Food Research** 49: 989-991 (2005)  
IF: 2.071  
EDITORIAL

**2006**

12. 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)  
IF: 4.274
13. 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)  
IF: 1.930
14. At the crossroad of lipid metabolism and inflammation  
Szeles, L., Torocsik, D. and **Nagy, L.**  
**B.I.F. Futura** (Boehringer Ingelheim Funds) 21:79-85 (2006)  
IF: -
15. Twenty years of nuclear receptors  
**Nagy, L.**, Schüle, R., and Gronemeyer, H.  
**EMBO Reports** 7(6): 579-584 (2006)  
IF: 8.175  
MEETING REPORT
- 2007**
16. PPAR $\gamma$  in immunity and inflammation: cell types and diseases  
Szeles, L., Torocsik, D. and **Nagy, L.**  
**Biochimica et Biophysica Acta – Molecular and Cell Biology of Lipids**  
1771:1014-1030 (2007)  
IF: 3.539
17. A transzkripció szabályozás dinamikus arca / The dynamic face of transcriptional regulation  
Brazda P., Szekeres T., Vamosi G., **Nagy L.**  
**Biokémia** 31: (4) 74-81. (2007)
- 2008**
18. Nuclear receptors, transcription factors linking lipid metabolism and immunity: the case of PPAR $\gamma$   
Varga, T. and **Nagy, L.**  
**European Journal of Clinical Investigation** 38:695-707 (2008)  
IF: 2.701
19. Nuclear receptor signalling in dendritic cells connects lipids, the genome and immune function  
Szatmari, I. and **Nagy, L.**  
**The EMBO Journal** 27(18): 2353-2362 (2008)  
IF: 8.295
20. The many faces of PPAR $\gamma$ : anti-inflammatory by any means?  
Szanto, A. and **Nagy, L.**  
**Immunobiology** 213:789-803 (2008)  
IF: 3.461

21. Potential Therapeutic Use of PPAR $\gamma$ -Programed Human Monocyte-Derived Dendritic Cells in Cancer Vaccination Therapy  
Gyongyosi, A. and **Nagy, L.**  
**PPAR Research** ID: 473804 (2008)  
IF: 2.727

22. Of Vitruvian Mice and Men  
**Nagy L.**, Tontonoz P.  
**FEBS Letters** 582 (1) 1-1 (2008)  
IF: 3.264  
PREFACE

### 2009

23. Oxysterol signaling links cholesterol metabolism and inflammation via the Liver X Receptor in macrophages  
Torocsik, D., Szanto, A. and **Nagy, L.**  
**Molecular Aspects of Medicine** 30: 134-152 (2009)  
IF: 6.649

### 2011

24. Gene expression profiles in peripheral blood for the diagnosis of autoimmune diseases  
Mesko, B., Poliska, S., **Nagy, L.**  
**Trends in Molecular Medicine** 17:(4) pp. 223-233. (2011)  
IF: 10.355

25. PPARs are a unique set of fatty acid regulated transcription factors controlling both lipid metabolism and inflammation  
Varga, T., Czimmerer, Z., **Nagy, L.**  
**Biochimia et Biophysica Acta – Molecular Basis of Disease** 1812:(8) pp. 1007-1022. (2011)  
IF: 5.387

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

### 2012

27. Nuclear hormone receptors enable macrophages and dendritic cells to sense their lipid environment and shape their immune response  
**Nagy, L.**, Szanto, A., Sztatmari, I. and Szeles, L.

- Physiological Reviews** 92: (2) pp. 739-789. (2012)  
IF: 30.174
28. The triad of success in personalized medicine: pharmacogenomics, biotechnology and regulatory issues from a Central European perspective  
Mesko, B., Zahuczky, G **Nagy, L**  
**New Biotechnology** 29: (6) pp. 741-750. (2012)  
IF: 1.706
29. Would eating carrots protect your liver? A new role involving NKT cells for retinoic acid in hepatitis (Commentary)  
**Nagy, L.**  
**European Journal of Immunology** 42:1677-1680 (2012)  
IF: 4.970
- 2013**
30. Nuclear receptor mediated mechanisms of macrophage cholesterol metabolism  
Nagy, Z., Czimmerer Z. and **Nagy, L.**  
**Molecular and Cellular Endocrinology** 368:85-98 (2013)  
IF: 4.241
31. The role of lipid-activated nuclear receptors in shaping macrophage and dendritic cell function - from physiology to pathology  
Kiss, M., Czimmerer, Z. and **Nagy, L.**  
**Journal of Allergy and Clinical Immunology** 132: (2) pp. 264-286. (2013)  
IF: 11.248
32. Pharmacogenetics and pharmacogenomics in rheumatology  
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.**  
**Journal of Immunological Research** 56: (2-3) pp. 325-333. (2013)  
IF: 3.525
33. Nuclear receptors as regulators of stem cell and cancer stem cell metabolism  
Simandi, Z., Cuaranta-Monroy, I., **Nagy, L.**  
**Seminars in Cell and Developmental Biology** 24:(10-12) pp. 716-723. (2013)  
IF: 5.971
34. A funkcionális genomikai eszköztár szerepe az onkológiai kutatásokban  
Balint, B.L., **Nagy, L.**  
**Magyar Onkológia** 57: p. 21. (2013)
35. A rheumatoid arthritis genetikája és genomikája: Farmakogenetika és farmakogenomika.

- Soos, B., Mesko, B., Poliska, S., Vancsa, A., Szamosi, S., Vegh, E., Simkovics, E., **Nagy, L.**, Szekanecz, Z.  
**Immunológiai Szemle** 5:(1) pp. 19-27. (2013)
36. PPAR $\gamma$  needs a helping hand to make fat  
Cuaranta-Monroy, I., **Nagy, L.**  
**Cell Death and Differentiation** 20: pp. 1599-1600. (2013)  
IF: 8.385  
EDITORIAL
37. Nuclear hormone receptors are powerful regulators of stem cell maintenance, differentiation, metabolism and function  
**Nagy, L.**  
**Seminars in Cell and Developmental Biology** 24: (10-12) p. 669. (2013)  
IF: 5.971  
EDITORIAL
38. EMDS 2012: 26th Meeting of the European Society for Macrophage and Dendritic Cell Biology in Debrecen, Hungary, September 1-3, 2012  
**Nagy, L.**, Rajnavolgyi, E.  
**Immunobiology** 218:(11) p. 1311. (2013)  
EDITORIAL  
IF: 3.180
39. A rheumatoid arthritis genetikája és genomikája: patogenetikai vonatkozások  
Soos, B., Kurko, J., Besenyei, T., Szabo, Z., Szanto, S., Mesko, B., Poliska, S., **Nagy, L.**, Laki, J., Glant, T., Mikecz, K.  
**Magyar Reumatológia** 54:(1) pp. 7-17. (2013)
40. A Magreceptor Kutatólaboratórium és a Debreceni Klinikai Genomikai és Személyre Szabott Orvoslási Központ a Debreceni Egyetem OEC, Biokémiai és Molekuláris Biológiai Intézetében  
**Nagy, L.**  
**Biokémia** 37: (3) pp.11-21 (2013)
- 2014**
41. The intriguing complexities of mammalian gene regulation: How to link enhancers to regulated genes. Are we there yet?  
Daniel, B., Nagy, G., **Nagy, L.**  
**FEBS Letters** 588 (15), 2379-2391, 2014.  
IF: 3.169

**2015**



42. Genomewide effects of peroxisome proliferator-activated receptor gamma in macrophages and dendritic cells – revealing complexity through systems biology  
Cuaranta-Monroy, I., Kiss, I., Simandi, Z., **Nagy, L.**  
**European Journal Of Clinical Investigation** 45:(9) pp. 964-975. (2015)  
IF: 2.734 (2014)
43. A géntől a genomig és vissza  
**Nagy, L.**  
**Biokémia** 39: (1) 5-17. (2015)

.....

**Idézetek: 11602**

**Független idézetek: 10672**

**h-index: 42**

**Totál IF: 865.97**

**Szabadalmak:**

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 (June19th, 2006) International PCT/HU2007/000055
7. Control system for immunoprecipitation studies P1200395 (HU) US61666945
8. Diagnostic method for TNF-a responsiveness, P1200712 (HU)

**Disszertációk:**

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)