

**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. PMID: 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- $\alpha$  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 $\gamma$ . *Cell* 1998; 93(2):229-240.

14. Tontonoz, P.\* **Nagy, L.\***, Alvarez, JGA., Thomazy, VA. and Evans, RM.: PPAR $\gamma$  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 $\alpha$  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 $\gamma$  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 $\gamma$ -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. Sztatmari, I., Gogolak, P., Im S., J., Dezso, B., Rajnavolgyi, E. and **Nagy, L.**: Activation of PPAR $\gamma$  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** PMID: PMC515045

## 2005

26. Szanto, A and **Nagy, L.:** Retinoids potentiate PPAR $\gamma$  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. PMID: 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 Hemostasis* 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 inflammatory cytokine in monocyte derived dendritic cells. *Blood* 2006; 107: 2821-2829. PMID: 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 $\gamma$  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 $\gamma$  controls CD1d expression by turning on retinoic acid synthesis in developing human dendritic cells. *Journal of Experimental Medicine* 2006; 203:2351-2362. PMID: 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., 37. 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 $\gamma$  mutations cause lipodystrophic insulin resistance. *Cell Metabolism* 2006; 4:303-311. PMID: PMC1821092

## 2007

37. Gogolak, P., Rethi, B., Szatmari, I., Lanyi, A., Dezsó, B., **Nagy, L.**, Rajnavolgyi, E.: Differentiation of CD1a- and CD1a+ monocyte-derived dendritic cells is biased by lipid environment and PPAR $\gamma$ . *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. PMID: PMC1986596

39. Szatmari, I., Töröcsik, D., Agostini, M., Nagy, T., Gurnell, M., Barta, E., Chatterjee, K. and **Nagy, L.**: PPAR $\gamma$  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 $\gamma$  by oxidised fatty acids. *Nature Structural and Molecular Biology* 2008; 15:924-931. PMID: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 Vanniloid-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, Dezsó 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 $\gamma$  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., Dezsó, 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. PMID: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. PMID: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 Hemostasis* 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 $\gamma$ -regulated gene expression in macrophages and dendritic cells. *Immunity* 2010; 33: 699-712.PMID:PMC3052437.

53. Penyige, A., Poliska, S., Csanky, E., Scholtz, B., Dezso, B., Schmelczer, I., Kilty, I., Takacs, L. and **Nagy, L.:** Analyses of association between PPARG and EPHX1 polymorphisms and susceptibility to COPD in a Hungarian cohort, a case-control study. *BMC Medical Genetics* 2010; 11:152. PMID: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., Egerhazy, 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. PMID:PMC3232451.

56. Poliska, S., Csanky, 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. PMID:PMC3215574.

58. Nakken, B., Varga, T., Szatmari, I., Szeles, L., Gyongyosi, A., Illarionov, P., Dezso, B., Gogolak, P., Rajnavolgyi, E. and **Nagy, L.:** PPAR $\gamma$ -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. PMID: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. PMID: 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 $\gamma$  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., Dezsó, 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. PMID: 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. PMID: PMC3581501.

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

69. Mesko, B., Poliska, S., Vánca, 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** PMID: 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., Dezsó, B., Pos, Z., Szeles, L., Varga, T. and **Nagy, L.:** RDH10, RALDH2 and CRABP2 are required components of PPAR $\gamma$ -directed all-trans-retinoic acid synthesis and signaling in human dendritic cells. *Journal of Lipid Research* 2013; 54(9):2458-2474. PMID: 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 PMID: 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 PMID: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 $\gamma$ -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) PMID: 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 $\gamma$  activation but not PPAR $\gamma$  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. PMID: 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.**, Szekanez, Z., Vancsa, A., Palatka, K., Guttman, A. Combination of IgG N-glycomics and corresponding transcriptomics data to identify anti-TNF- $\alpha$  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., Wietrzyk-Schindler, M., Álvarez, S., Szklénar M., **Nagy, L.**, de Lera, A. and Krężel, W. 9-cis-13,14-Dihydroretinoic Acid Is an Endogenous Retinoid Acting as RXR Ligand in Mice. *PLOS Genetics* 2015

## 2016

84. Dozsa, A., Mihaly, J., Dezso, B., Czizmadia, E., Keresztessy, 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., 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 $\gamma$ , 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 multilókusz genetikai vizsgálata az idegfejlődés és az immunrendszer zavarának oki szerepére utal(hat). *Ideggyógyászati 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 $\gamma$ -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., , Ruckerl, D., Nagy, G., Kiss, M., Peloquin, M., Budai, M.,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. PMID: 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, Lusic 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 $\gamma$  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/narlgky157.

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, Lauer 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/ace1.12815

109. Simandi Z, Pajer K, Karolyi K, Sieler T, Jiang LL, Kolostyak Z, Sari Z, Fekecs Z, Pap A, Patsalos A, Contreras GA, Reho B, Papp Z, Guo X, Horvath A, Kiss G, Keresztessy 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 $\gamma$  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- $\beta$ -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

## 2019

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.\*, Besenyei, 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., Wesoly, 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 lipidisolated from Mycobacterium vaccae, a soil-derived bacteriumwith immunoregulatory and stress resilience propertie. *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* August 12, 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 PPARγ: 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: Exploring 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 Spitteller, 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 $\gamma$ , 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. PMID: PMC1479599

### 2007

16. Széles, L., Töröcsik, D. and **Nagy, L.**: PPAR $\gamma$  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 transzkripció 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 $\gamma$ . *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*. PMID:PMC2525841.

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

21. Gyongyosi, A and **Nagy, L.:** Potential Therapeutic Use of PPAR $\gamma$ -Programed Human Monocyte-Derived Dendritic Cells in Cancer Vaccination Therapy. *PPAR Research* ID:473804 2008. PMID: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* PMID: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., Besenyi, T., Mikecz, K., Glant, T. and **Nagy, L.:** Pharmacogenetics and pharmacogenomics in rheumatology. *Immunological Research* 2013; 56(2-3): 325-333 *Invited Review* PMID: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 $\gamma$  needs a helping hand to make fat. *Cell Death and Differentiation - Editorial* 2013 20:1599-1600 PMID: 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.semcdb.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 $\gamma$ -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/jappphysiol.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 14<sup>th</sup>, 2003) P0301358, International PCT/IB2004/050707  
(pending) International application number: WO 2004/101776 A3
6. Method for conferring cytoprotection Hungarian Patent Application P0600497 (June 19<sup>th</sup>,  
2006) International PCT/HU2007/000055 European Patent # 2081599
7. Control system for immunoprecipitation studies P1200395 (HU) US61666945
8. Diagnostic method for TNF- $\alpha$  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)