

**Publications of Department of Biochemistry and Molecular Biology
in 2013**

1. Aloe vera downregulates LPS-induced inflammatory cytokine production and expression of NLRP3 inflammasome in human macrophages

Budai, M.M.^a, Varga, A.^a, Milesz, S.^b, Tozsér, J.^c, Benko, S.^a

^a Department of Physiology, Medical and Health Science Center, Faculty of Medicine, University of Debrecen, Nagyerdei Blv. 98, Debrecen H-4012, Hungary

^b FLP Hungary, Szondi Street 34, Budapest H-1067, Hungary

^c Department of Biochemistry and Molecular Biology, Medical and Health Science Center, Faculty of Medicine, University of Debrecen, Nagyerdei Blv. 98, Debrecen H-4012, Hungary

Molecular Immunology

Volume 56, Issue 4, 31 December 2013, Pages 471-479

Document Type: Article IF: 2.645

2. Enhanced stability of monomer fold correlates with extreme drug resistance of hiv-1 protease

Louis, J.M.^a, Tözsér, J.^b, Roche, J.^a, Matúz, K.^b, Aniana, A.^a, Sayer, J.M.^a

^a Laboratory of Chemical Physics, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD 20892, United States

^b Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Debrecen, Debrecen H-4012, Hungary

Biochemistry

Volume 52, Issue 43, 29 October 2013, Pages 7678-7688

Document Type: Article IF: 3.377

3. A molecular model of the full-length human NOD-like receptor family CARD domain containing 5 (NLRC5) protein

Mótyán, J.A.^a, Bagossi, P.^a, Benko, S.^b, Tozsér, J.^a

^a Department of Biochemistry and Molecular Biology, Faculty of Medicine, Medical and Health Science Center, University of Debrecen, POB 6, H-4012 Debrecen, Hungary

^b Department of Physiology, Faculty of Medicine, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

BMC Bioinformatics

Volume 14, Issue 1, 17 September 2013, Article number 275

Document Type: Article IF: 3.024

4. Tear fluid proteomics multimarkers for diabetic retinopathy screening

Torok, Z.^{af}, Peto, T.^b, Csosz, E.^c, Tukacs, E.^{af}, Molnar, A.^d, Maros-Szabo, Z.^{af}, Berta, A.^{eg}, Tozser, J.^{cg}, Hajdu, A.^a, Nagy, V.^e, Domokos, B.^f, Csutak, A.^{eg}

^a Department of Computer Graphics and Image Processing, University of Debrecen, Faculty of Informatics, Debrecen, Hungary

^b NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust, UCL Institute of Ophthalmology, London, United Kingdom

^c Department of Biochemistry and Molecular Biology, Proteomics Core Facility, University of Debrecen, Debrecen, Hungary

^d Centre for Research on Inner City Health, Keenan Research Centre Li Ka Shing Knowledge Institute, St Michael's Hospital, Toronto, ON, Canada

^e Department of Ophthalmology, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^f Astridbio Ltd, Debrecen, Hungary; ^g InnoTears Ltd, Debrecen, Hungary

BMC Ophthalmology

Volume 13, Issue 1, 2013, Article number 40

Document Type: Article IF: 1.444

5. Differential temperature dependence of tobacco etch virus and rhinovirus 3C proteases

Raran-Kurussi, S.^a, Tözsér, J.^b, Cherry, S.^a, Tropea, J.E.^a, Waugh, D.S.^a _ _

^a Macromolecular Crystallography Laboratory, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702, United States

^b Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Debrecen, 4032 Debrecen, Hungary

Analytical Biochemistry

Volume 436, Issue 2, 15 May 2013, Pages 142-144

Document Type: Article IF: 2.582

6. In vivo application of a small molecular weight antifungal protein of *Penicillium chrysogenum* (PAF)

Palicz, Z.^a, Jenes, T.^a, Gáll, T.^a, Miszti-Blasius, K.^b, Kollár, S.^c, Kovács, I.^c, Emri, M.^d, Márián, T.^d, Leiter, T.^e, Pócsi, I.^e, Csosz, T.^f, Kalló, G.^f, Hegedus, C.^g, Virág, L.^g, Csernoch, L.^a, Szentesi, P.^a

^a Department of Physiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^b Department of Clinical Biochemistry and Molecular Pathology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^c Department of Pathology, Kenézy Hospital Ltd., Debrecen, Hungary

^d Department of Nuclear Medicine, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^e Department of Microbial Biotechnology and Cell Biology, Faculty of Science and Technology, Centre of Arts, Humanities and Sciences, University of Debrecen, Debrecen, Hungary

^f Proteomics Core Facility, Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^g Department of Medical Chemistry, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

Toxicology and Applied Pharmacology

Volume 269, Issue 1, 15 May 2013, Pages 8-16

Document Type: Article IF: 3.975

7. Monocyte-derived dendritic cell subpopulations use different types of matrix metalloproteinases inhibited by GM6001

Kis-Toth, K.^{ac}, Bacskai, I.^a, Gogolak, P.^a, Mazlo, A.^a, Szatmari, I.^b, Rajnavolgyi, E.^a _ _

^a Department of Immunology, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^b Department of Biochemistry and Molecular Biology, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^c Department of Rheumatology, Beth Israel Deaconess Medical Center, Boston, MA, United States

Immunobiology

Volume 218, Issue 11, November 2013, Pages 1361-1369

Document Type: Article IF: 2.814

8. Integrative Genomics Identifies Gene Signature Associated with Melanoma Ulceration

Rakosy, Z.^{ab}, Ecsedi, S.^{ab}, Toth, R.^a, Vizkeleti, L.^{ab}, Hernandez-Vargas, H.^c, Lazar, V.^a, Emri, G.^c, Szatmari, I.^d, Herceg, Z.^e, Adany, R.^{ab}, Balazs, M.^{ab}

^a Department of Preventive Medicine, Faculty of Public Health, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^b Public Health Research Group of the Hungarian Academy of Sciences, University of Debrecen, Debrecen, Hungary

^c Department of Dermatology, Faculty of Medicine, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^d Department of Biochemistry and Molecular Biology, Faculty of Medicine, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^e World Health Organization International Agency for Research on Cancer, Epigenetics Group, Lyon, France

PLoS ONE

Volume 8, Issue 1, 30 January 2013, Article number e54958

Document Type: Article IF: 3.730

9. Macrophages engulfing apoptotic thymocytes produce retinoids to promote selection, differentiation, removal and replacement of double positive thymocytes

Sarang, Z.^a, Garabuczi, E.^a, Joós, G.^a, Kiss, B.^a, Tóth, K.^a, Rühl, R.^b, Szondy, Z.^a

^a Section of Dental Biochemistry, Department of Biochemistry and Molecular Biology, Research Center of Molecular Medicine University of Debrecen, Nagyerdei krt. 98, 4012 Debrecen, Hungary

^b Laboratory of Nutritional Bioactivation, Department of Biochemistry and Molecular Biology, Research Center of Molecular Medicine University of Debrecen, Nagyerdei krt. 98, 4012 Debrecen, Hungary

Immunobiology

Volume 218, Issue 11, November 2013, Pages 1354-1360

Document Type: Article IF: 2.814

10. Celiac Disease-Specific TG2-Targeted Autoantibodies Inhibit Angiogenesis Ex Vivo and In Vivo in Mice by Interfering with Endothelial Cell Dynamics

Kalliokoski, S.^a, Sulic, A.-M.^a, Korponay-Szabó, I.R.^{ab}, Szondy, Z.^c, Frias, R.^d, Perez, M.A.^e, Martucciello, S.^{af}, Roivainen, A.^g, Pelliniemi, L.J.^h, Esposito, C.^f, Griffin, M.^e, Sblattero, D.ⁱ, Mäki, M.^a, Kaukinen, K.^j, Lindfors, K.^a, Caja, S.^a

^a Tampere Center for Child Health Research, University of Tampere and Tampere University Hospital, Tampere, Finland

^b Celiac Disease Center, Heim Pál Children's Hospital, Budapest, Department of Paediatrics, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^c Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^d Central Animal Laboratory, University of Turku, Turku, Finland

^e School of Life and Health Sciences, Aston University, Birmingham, United Kingdom

^f Department of Chemistry and Biology, University of Salerno, Salerno, Italy

^g Turku PET Centre, Turku University Hospital and University of Turku and Turku Center for Disease Modeling, University of Turku, Turku, Finland

^h Laboratory of Electron Microscopy, University of Turku, Turku, Finland

ⁱ Department of Health Sciences and IRCAD, University of Eastern Piedmont, Novara, Italy

^j School of Med., Univ. of Tampere and Department of Gastroenterology and Alimentary Tract Surgery, Tampere University Hospital, Tampere, Department of Medicine, Seinäjoki Central Hospital, Seinäjoki, Finland

PLoS ONE

Volume 8, Issue 6, 18 June 2013, Article number e65887

Document Type: Article IF: 3.730

11. PPAR γ -Mediated and Arachidonic Acid-Dependent Signaling Is Involved in Differentiation and Lipid Production of Human Sebocytes (Article in press ?)

Dozsa, A.^{ab}, Dezso, B.^c, Toth, B.I.^d, Bacsi, A.^e, Poliska, S.^f, Camera, E.^g, Picardo, M.^g, Zouboulis, C.C.^h, Bíró, T.^d, Schmitz, G.ⁱ, Liebisch, G.ⁱ, Rühl, R.^f, Remenyik, E.^j, Nagy, L.^{ak}

^a [] Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^b Department of Dermatology, Health Care Center, Miskolc, Hungary

^c Department of Pathology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^d DE-MTA Lendület Cellular Physiology Research Group, Department of Physiology, University of Debrecen, Medical and Health Science Center, Research Center for Molecular Medicine, Debrecen, Hungary

^e Department of Immunology, University of Debrecen, Debrecen, Hungary

^f Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^g Laboratory of Cutaneous Physiopathology and Integrated Center for Metabolomics Research, Institute of Dermatology San Gallicano (IRCCS), Rome, Italy

^h Departments of Dermatology, Venereology, Allergology and Immunology, Dessau Medical Center, Dessau, Germany

ⁱ Departments of Clinical Chemistry and Laboratory Medicine, University of Regensburg, Regensburg, Germany

^j Department of Dermatology, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^k DE-MTA Lendület Immunogenomics Research Group, University of Debrecen, Medical and Health Science Center, Research Center for Molecular Medicine, Debrecen, Hungary

Journal of Investigative Dermatology

15 October 2013

Document Type: Article in Press IF: 6.193

12. Eicosanoids and docosanoids in plasma and aorta of healthy and atherosclerotic rabbits

Szklenar, M.^{ab}, Kalkowski, J.^d, Stangl, V.^d, Lorenz, M.^d, Rühl, R.^{abc}

^a Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Hungary

^b Paprika Bioanalytics BT, Germany

^c Apoptosis and Genomics Research Group, Hungarian Academy of Science, Debrecen, Hungary

^d Medizinische Klinik für Kardiologie und Angiologie, Campus Mitte, Charité-Universitätsmedizin, Berlin, Germany

Journal of Vascular Research

Volume 50, Issue 5, October 2013, Pages 372-382

Document Type: Article IF: 2.434

13. Allergen-Induced Dermatitis Causes Alterations in Cutaneous Retinoid-Mediated Signaling in Mice

Gericke, J.^a, Ittensohn, J.^a, Mihály, J.^{ab}, Dubrac, S.^c, Rühl, R.^{abd}

^a Laboratory of Nutritional Bioactivation and Bioanalysis, Department of Biochemistry and Molecular Biology, University of Debrecen, Debrecen, Hungary

^b Paprika Bioanalytics BT, Debrecen, Hungary

^c Epidermal Biology Laboratory, Department of Dermatology, Innsbruck Medical University, Innsbruck, Austria

^d Apoptosis and Genomics Research Group of the Hungarian Academy of Science, Debrecen, Hungary

PLoS ONE

Volume 8, Issue 8, 15 August 2013, Article number e71244

Document Type: Article IF: 3.730

14. Ratio of Pro-Resolving and Pro-Inflammatory Lipid Mediator Precursors as Potential Markers for Aggressive Periodontitis

Zein Elabdeen, H.R.^a, Mustafa, M.^a, Szklenar, M.^b, Rühl, R.^{bc}, Ali, R.^d, Bolstad, A.I.^a

^a Department of Clinical Dentistry - Periodontics, University of Bergen, Bergen, Norway

^b Paprika Bioanalytics Bt., Debrecen, Hungary

^c Department of Biochemistry and Molecular Biology, University of Debrecen, Debrecen, Hungary

^d Faculty of Dentistry, University of Science and Technology, Omdurman, Sudan

PLoS ONE

Volume 8, Issue 8, 12 August 2013, Article number e70838

Document Type: Article IF: 3.730

15. Reduced lipoxygenase and cyclooxygenase mediated signaling in PBMC of atopic dermatitis patients (Article in press ?)

Mihály, J.^{ab}, Gericke, J.^a, Töröcsik, D.^{cd}, Gáspár, K.^{cd}, Szegedi, A.^{cd}, Rühl, R.^{abe}

^a Department of Biochemistry and Molecular Biology, University of Debrecen, Hungary

^b Paprika Bioanalytics Bt, Debrecen, Hungary

^c Department of Dermatology, University of Debrecen, Hungary

^d Department of Dermatological Allergology, University of Debrecen, Hungary

^e Apoptosis and Genomics Research Group of the Hungarian Academy of Science, Debrecen, Hungary

Prostaglandins and Other Lipid Mediators

2013

Document Type: Article in Press IF: 2.422

16. Non-pro-vitamin A and pro-vitamin A carotenoids in atopy development (Review)

Rühl, R.^{ab}

^a Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Nagyerdei Krt. 98, HU-4012 Debrecen, Hungary ; ^b Paprika Bioanalytics BT, Debrecen, Hungary

International Archives of Allergy and Immunology

Volume 161, Issue 2, May 2013, Pages 99-115

Document Type: Review

17. Lycopene-derived bioactive retinoic acid receptors/retinoid-X receptors-activating metabolites may be relevant for lycopene's anti-cancer potential (Review)

Aydemir, G.^a, Kasiri, Y.^a, Birta, E.^a, Béke, G.^a, Garcia, A.L.^c, Bartók, E.-M.^a, Rühl, R.^{abd}

^a Department of Biochemistry and Molecular Biology, University of Debrecen, Debrecen, Hungary

^b Apoptosis and Genomics Research Group of the Hungarian Academy of Science, Debrecen, Hungary

^c Human Nutrition, School of Medicine, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, United Kingdom ; ^d Paprika Bioanalytics BT, Debrecen, Hungary

Molecular Nutrition and Food Research

Volume 57, Issue 5, May 2013, Pages 739-747

Document Type: Review

18. Regulation of Retinoid-Mediated Signaling Involved in Skin Homeostasis by RAR and RXR Agonists/Antagonists in Mouse Skin

Gericke, J.^a, Ittensohn, J.^a, Mihály, J.^{ab}, Álvarez, S.^c, Álvarez, R.^c, Töröcsik, D.^d, de Lera, Á.R.^c, Rühl, R.^{abe}

^a Department of Biochemistry and Molecular Biology, University of Debrecen, Debrecen, Hungary

^b Paprika Bioanalytics BT, Debrecen, Hungary

^c Departamento de Química Orgánica, Universidade de Vigo, Vigo, Spain

^d Department of Dermatology, University of Debrecen, Debrecen, Hungary

^e Apoptosis and Genomics Research Group of the Hungarian Academy of Science, Debrecen, Hungary

PLoS ONE

Volume 8, Issue 4, 24 April 2013, Article number e62643

Document Type: Article IF: 3.730

19. Reduced retinoid signaling in the skin after systemic retinoid-X receptor ligand treatment in mice with potential relevance for skin disorders

Mihály, J.^a, Gericke, J.^a, Aydemir, G.^a, Weiss, K.^a, Carlsen, H.^c, Blomhoff, R.^c, Garcia, J.^{ad}, Rühl, R.^{ab}

^a Laboratory of Nutritional Bioactivation and Bioanalysis, Department of Biochemistry and Molecular Biology Medical and Health Science Center, University of Debrecen, Nagyerdei krt. 98, HU-4012 Debrecen, Hungary

^b Apoptosis and Genomics Research Group of the Hungarian Academy of Science, Debrecen, Hungary

^c Department of Nutrition, Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway

^d Department of Food Technology, Nutrition and Food Science, University of Murcia, Murcia, Spain
Dermatology

Volume 225, Issue 4, March 2013, Pages 304-311

Document Type: Article IF: 2.024

20. Identification of a specific one amino acid change in recombinant human transglutaminase 2 that regulates its activity and calcium sensitivity

Kanchan, K.^a, Ergülen, E.^b, Király, R.^a, Simon-Vecsei, Z.^a, Fuxreiter, M.^c, Fésüs, L.^d

^a Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Nagyerdei krt 98, Debrecen H-4032, Hungary

^b UD-GenoMed Medical Genome Technologies, Nagyerdei krt 98, Debrecen H-4032, Hungary

^c DE OEC (Debreceni Egyetem Orvos- És Egészség tudományi Centrum) Momentum, Laboratory of Protein Dynamics, Nagyerdei krt 98, Debrecen H-4032, Hungary

^d Hungarian Academy of Science Stem Cell, Apoptosis and Genomics Research Group, Nagyerdei krt 98, Debrecen H-4032, Hungary

Biochemical Journal

Volume 455, Issue 3, 1 November 2013, Pages 261-272

Document Type: Article IF: 4.654

21. High content analysis of differentiation and cell death in human adipocytes

Doan-Xuan, Q.M.^a, Sarvari, A.K.^b, Fischer-Posovszky, P.^c, Wabitsch, M.^c, Balajthy, Z.^b, Fesus, L.^{bd}, Bacso, Z.^a

^a Department of Biophysics and Cell Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^b Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

^c Division of Pediatric Endocrinology and Diabetes, Department of Children and Adolescent Medicine, University Medical Center Ulm, Ulm, Germany

^d MTA DE Apoptosis, Genomics and Stem Cell Research Group, University of Debrecen, Debrecen, Hungary

Cytometry Part A

Volume 83, Issue 10, October 2013, Pages 933-943

Document Type: Article IF: 3.711

22. Novel role of ICAM3 and LFA-1 in the clearance of apoptotic neutrophils by human macrophages

Kristóf, E.^a, Zahuczky, G.^b, Katona, K.^a, Doró, Z.^b, Nagy, E.^b, Fésüs, L.^a

^a Department of Biochemistry and Molecular Biology, Hungarian Academy of Sciences, University of Debrecen, Egyetem Tér 1, Debrecen 4010, Hungary

^b UD GenoMed Ltd., Nagyerdei Krt. 98, Debrecen 4032, Hungary

Apoptosis

Volume 18, Issue 10, 2013, Pages 1235-1251

Document Type: Article IF: 3.949

23. Polymorphism of transglutaminase 2: Unusually low frequency of genomic variants with deficient functions

Király, R., Barta, E., Fésüs, L. _ _

Department of Biochemistry and Molecular Biology, Hungarian Academy of Sciences, University of Debrecen, Egyetem tér 1, Debrecen 4012, Hungary

Amino Acids

Volume 44, Issue 1, January 2013, Pages 215-225

Document Type: Article IF: 3.914

24. Retinoids produced by macrophages engulfing apoptotic cells contribute to the appearance of transglutaminase 2 in apoptotic thymocytes

Garabuczi, É.^a, Kiss, B.^a, Felszeghy, S.^b, Tsay, G.J.^c, Fésüs, L.^a, Szondy, Z.^a _ _

^a Department of Biochemistry and Molecular Biology, Hungarian Academy of Sciences, University Medical School of Debrecen, Nagyerdei krt. 98, Debrecen 4012, Hungary

^b Department of Anatomy, Histology and Embryology, Medical and Health Science Centre, University of Debrecen, Nagyerdei krt. 98, Debrecen 4012, Hungary

^c Institute of Immunology, Chung Shan Medical University, 110 Chien Kuo, N. Road, Taichung, Taiwan

Amino Acids

Volume 44, Issue 1, January 2013, Pages 235-244

Document Type: Article IF: 3.914

25. Alternative splicing of intrinsically disordered regions and rewiring of protein interactions (Review)

Buljan, M.^a, Chalancon, G.^a, Dunker, A.K.^b, Bateman, A.^c, Balaji, S.^a, Fuxreiter, M.^d, Babu, M.M.^a

^a MRC Laboratory of Molecular Biology, Francis Crick Avenue, Cambridge CB2 0QH, United Kingdom

^b Center for Computational Biology and Bioinformatics, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Indianapolis, IN 46202, United States

^c European Bioinformatics Institute, Wellcome Trust Genome Campus, Hinxton, Saffron Walden CB10 1SD, United Kingdom

^d DE OEC-Momentum Laboratory of Protein Dynamics, University of Debrecen, H-4032 Debrecen, Nagyerdei krt 98, Hungary

Current Opinion in Structural Biology

Volume 23, Issue 3, June 2013, Pages 443-450

Document Type: Review

26. Optimization of reorganization energy drives evolution of the designed Kemp eliminase KE07

Labas, A.^{ab}, Szabo, E.^{ab}, Mones, L.^{cd}, Fuxreiter, M.^a _ _

^a DE OEC-Momentum Laboratory of Protein Dynamics, University of Debrecen, Nagyerdei krt 98, H-4032 Debrecen, Hungary

^b Budapest University of Technology and Economics, BME Pf 91, H-1521 Budapest, Hungary

^c Institute of Enzymology, Hungarian Academy of Sciences, Hungary

^d Department of Engineering, University of Cambridge, United Kingdom

Biochimica et Biophysica Acta - Proteins and Proteomics

Volume 1834, Issue 5, May 2013, Pages 908-917

Document Type: Article IF: 3.733

27. Tissue LyC6- macrophages are generated in the absence of circulating LyC6-monocytes and Nur77 in a model of muscle regeneration

Varga, T.^a, Mounier, R.^{bcd}, Gogolak, P.^e, Poliska, S.^f, Chazaud, B.^{bcd}, Nagy, L.^{ag} --

^a Department of Biochemistry and Molecular Biology, University of Debrecen, University Square 1, Debrecen 4012, Hungary

^b INSERM, U1016, Institut Cochin, 75014 Paris, France

^c Centre National de la Recherche Scientifique, UMR8104, 75014 Paris, France

^d Université Paris Descartes, Sorbonne Paris Cité, Paris Cedex 06, France

^e Department of Immunology, Medical and Health Science Center, University of Debrecen, Debrecen 4012, Hungary

^f Center for Clinical Genomics and Personalized Medicine, Medical and Health Science Center, University of Debrecen, Debrecen 4012, Hungary

^g Hungarian Academy of Sciences-University of Debrecen, Medical and Health Science Center, University of Debrecen, Debrecen 4012, Hungary

Journal of Immunology

Volume 191, Issue 11, 1 December 2013, Pages 5695-5701

Document Type: Article IF: 5.520

28. Nuclear hormone receptors are powerful regulators of stem cell maintenance, differentiation, metabolism and function (Editorial)

Nagy, L.^{ab} --

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen, Medical and Health Science Center, Egyetem tér 1., Debrecen H-4012, Hungary

^b MTA-DE Lendulet Immunogenomics Research Group, University of Debrecen, Debrecen H-4012, Hungary

Seminars in Cell and Developmental Biology

Volume 24, Issue 10-12, December 2013, Page 669

Document Type: Editorial

29. PPAR γ needs a helping hand to make fat (Editorial)

Cuaranta-Monroy, I.^a, Nagy, L.^{ab} --

^a Research Center for Molecular Medicine, Department of Biochemistry and Molecular Biology, Medical and Health Science Center, Egyetem tér 1, Debrecen H-4012, Hungary ; ^b MTA-DE 'Lendulet' Immunogenomics Research Group, Debrecen, Hungary

Cell Death and Differentiation

Volume 20, Issue 12, December 2013, Pages 1599-1600

Document Type: Editorial

30. Nuclear receptors as regulators of stem cell and cancer stem cell metabolism (Review)

Simandi, Z.^a, Cuaranta-Monroy, I.^a, Nagy, L.^{ab} --

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen, Medical and Health Science Center, Egyetem tér 1., Debrecen H-4012, Hungary

^b MTA-DE Lendulet Immunogenomics Research Group, Egyetem tér 1., Debrecen H-4012, Hungary

Seminars in Cell and Developmental Biology

Volume 24, Issue 10-12, December 2013, Pages 716-723

Document Type: Review

31. Pro-inflammatory cytokines negatively regulate PPAR γ mediated gene expression in both human and murine macrophages via multiple mechanisms

Nagy, Z.S.^a, Czimmerer, Z.^{ab}, Szanto, A.^a, Nagy, L.^{ab} --

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen Medical and Health Science Center, H-4032 Debrecen, Nagyerdei krt 98, Hungary

^b MTA-DE Lendület Immunogenomics Research Group, University of Debrecen, Medical and Health Science Center, H-4032 Debrecen, Nagyerdei krt 98, Hungary

Immunobiology

Volume 218, Issue 11, November 2013, Pages 1336-1344

Document Type: Article IF: 2.814

32. EMDS 2012: 26th Meeting of the European society for macrophage and dendritic cell biology in Debrecen, Hungary, September 1-3, 2012 (Editorial)

Nagy, L.^{abc}, Rajnavolgyi, E.^{bc} --

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen Medical and Health Science Center, Debrecen, Hungary

^b MTA-DE Lendület Immunogenomics Research Group, Medical and Health Science Center, Debrecen, Hungary

^c Department of Immunology, Research Center for Molecular Medicine, University of Debrecen Medical and Health Science Center, Debrecen, Hungary

Immunobiology

Volume 218, Issue 11, November 2013, Page 1311

Document Type: Editorial

33. A novel method to predict regulatory regions based on histone mark landscapes in macrophages

Nagy, G.^a, Dániel, B.^a, Jónás, D.^a, Nagy, L.^{ab}, Barta, E.^{ab} --

^a Department of Biochemistry and Molecular Biology, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^b MTA-DE Lendület Immunogenomics Research Group, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

Immunobiology

Volume 218, Issue 11, November 2013, Pages 1416-1427

Document Type: Article IF: 2.814

34. Hmgb1 can facilitate activation of the matrilin-1 gene promoter by Sox9 and L-Sox5/Sox6 in early steps of chondrogenesis

Szénási, T.^a, Kénesi, E.^a, Nagy, A.^{ab}, Molnár, A.^a, Bálint, B.L.^c, Zvara, Á.^b, Csabai, Z.^a, Deák, F.^a, Boros Oláh, B.^c, Mátés, L.^b, Nagy, L.^{cd}, Puskás, L.G.^{be}, Kiss, I.^{ae} --

^a Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, H-6701 Szeged, Hungary

^b Institute of Genetics, Biological Research Centre, Hungarian Academy of Sciences, H-6701 Szeged, Hungary

^c Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen, H-4032 Debrecen, Hungary

^d MTA-DE Lendület Immunogenomics Research Group, University of Debrecen, H-4032 Debrecen, Hungary

^e Avidin Ltd., H-6726 Szeged, Hungary

Biochimica et Biophysica Acta - Gene Regulatory Mechanisms

Volume 1829, Issue 10, October 2013, Pages 1075-1091

Document Type: Article IF: 5.456

35. RDH10, RALDH2, and CRABP2 are required components of PPAR γ -directed ATRA synthesis and signaling in human dendritic cells

Gyöngyösi, A.^a, Szatmari, I.^a, Pap, A.^a, Dezsö, B.^b, Pos, Z.^{de}, Széles, L.^a, Varga, T.^a, Nagy, L.^{ac}

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, Medical and Health Science Center, Debrecen, Hungary

^b Department of Pathology, MTA-DE Lendület Immunogenomics Research Group, Debrecen, Hungary

^c University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

^d MTA-SE Lendület Experimental and Translational Immunomics Research Group, Budapest, Hungary

^e Department of Genetics, Cell and Immunobiology, Semmelweis University, Budapest, Hungary

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Volume 54, Issue 9, September 2013, Pages 2458-2474

Document Type: Article IF: 4.386

36. The role of lipid-activated nuclear receptors in shaping macrophage and dendritic cell function: From physiology to pathology

Kiss, M.^a, Czimmerer, Z.^a, Nagy, L.^{ab}

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen, Egyetem tér 1, Debrecen H-4010, Hungary

^b MTA-DE Lendület Immunogenomics Research Group, University of Debrecen, Medical and Health Science Center, Debrecen, Hungary

Journal of Allergy and Clinical Immunology

Volume 132, Issue 2, August 2013, Pages 264-286

Document Type: Article IF: 12.047

37. Pharmacogenetics and pharmacogenomics in rheumatology

Szekanecz, Z.^a, Meskó, B.^b, Poliska, S.^b, Vánca, A.^a, Szamosi, S.^a, Végh, E.^a, Simkovics, E.^a, Laki, J.^c, Kurkó, J.^{ad}, Besenyi, T.^{ad}, Mikecz, K.^d, Glant, T.T.^d, Nagy, L.^b

^a Department of Rheumatology, Institute of Medicine, University of Debrecen Medical, Nagyerdei Street 98, 4032 Debrecen, Hungary

^b Department of Biochemistry and Molecular Biology, Research Center of Molecular Medicine, University of Debrecen Medical, 4032 Debrecen, Hungary

^c Department of Medical Expertise, Clinical Auditing and Analysis, National Health Insurance Fund Administration, Budapest, Hungary

^d Section of Molecular Medicine, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL 60612, United States

Immunologic Research

Volume 56, Issue 2-3, July 2013, Pages 325-333

Document Type: Article IF: 2.963

38. Peripheral blood derived gene panels predict response to infliximab in rheumatoid arthritis and Crohn's disease

Mesko, B.^a, Poliska, S.^{acg}, Váncsa, A.^d, Szekanecz, Z.^d, Palatka, K.^e, Hollo, Z.^f, Horvath, A.^c, Steiner, L.^c, Zahuczky, G.^g, Podani, J.^h, Nagy, L.^{abc}

^a Department of Biochemistry and Molecular Biology, Debrecen, Egyetem tér 4028, Hungary

^b MTA-DE Lendület Immunogenomics Research Group, Research Center for Molecular Medicine, University of Debrecen, Medical and Health Science Center, Debrecen, Egyetem tér 4028, Hungary

^c Center for Clinical Genomics and Personalized Medicine, Medical and Health Science Center, University of Debrecen, Debrecen, Egyetem tér 4028, Hungary

^d Department of Rheumatology, Institute of Medicine, University of Debrecen, Medical and Health Science Center, Debrecen, Egyetem tér 4028, Hungary

^e 2nd Department of Internal Medicine, University of Debrecen, Medical and Health Science Center, Debrecen, Egyetem tér 4028, Hungary

^f EGIS Pharmaceuticals, Keresztúri út 30-38, H-1106 Budapest, Hungary

^g UD-GenoMed, Ltd., Debrecen, Egyetem tér 4012, Pf 52, Hungary

^h Biological Institute, Lorand Eötvös University, H-1117 Budapest, Egyetem tér, Hungary

Genome Medicine

Volume 5, Issue 6, 28 June 2013, Article number 59

Document Type: Article IF:3.850

39. Nuclear receptor mediated mechanisms of macrophage cholesterol metabolism (Review)

Nagy, Z.S.^a, Czimmerer, Z.^a, Nagy, L.^{ab}

^a Department of Biochemistry and Molecular Biology, Research Center for Molecular Medicine, University of Debrecen Medical and Health Science Center, H-4032 Debrecen, Nagyerdei krt 98, Hungary

^b Stem Cell, Apoptosis and Genomics Research Group of the Hungarian Academy of Sciences, University of Debrecen Medical and Health Science Center, H-4032 Debrecen, Nagyerdei krt 98, Hungary

Molecular and Cellular Endocrinology

Volume 368, Issue 1-2, 10 April 2013, Pages 85-98

Document Type: Review