УМАРНИ ТАБЕЛАРНИ ПРИКАЗ ОСТВАРЕЊА ПРОФ. Др ГОРДАНА ЛАУЦА

ИМЕ И ПРЕЗИМЕ: ГОРДАН ЛАУЦ, УНИВЕРЗИТЕТ У ЗАГРЕБУ, ЗАГРЕБ, ХРВАТСКА	
РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА СА SCI-ЛИСТЕ	**Радови у међународним часописима изузетне вредности (М21а)** 1. Halama, A., Zaghlool, S., Thareja, G., Kader, S., Al Muftah, W., Mook-Kanamori, M., Sarwath, H., Mohamoud, Y.A., Stephan, N., Ameling, S., Pucic Baković, M., Krumsiek, J., Prehn, C., Adamski, J., Schwenk, J.M., Friedrich, N., Völker, U., Wuhrer, M., **Lauc, G.**, Najafi-Shoushtari, S.H., Malek, J.A., Graumann, J., Mook-Kanamori, D., Schmidt, F., Suhre, K. (2024) A roadmap to the molecular human linking multiomics with population traits and diabetes subtypes. *Nature Communications*, 15, 1, 7111, DOI 10.1038/s41467-024-51134-x 2. Chuquisana, O., Stascheit, F., Keller, C.W., Pučić-Baković, M., Patenaude, A.-M., **Lauc, G.**, Tzartos, S., Wiendl, H., Willcox, N., Meisel, A., Lünemann, J.D. (2024) Functional Signature of LRP4 Antibodies in Myasthenia Gravis. *Neurology neuroimmunology neuroinflammation*, 11, 3, e200220, 10.1212/NXI.0000000000200220 3. Hoshi, R.A., Plavša, B., Liu, Y., Trbojević-Akmačić, I., Glynn, R.J., Ridker, P.M., Cummings, R.D., Gudelj, I., **Lauc, G.**, Demler, O.V., Mora, S. (2024) N-Glycosylation Profiles of Immunoglobulin G and Future Cardiovascular Events. *Circulation Research*, 134, 5, E3-E14, 10.1161/CIRCRESAHA.123.323623 4. Gaifem, J., Rodrigues, C.S., Petralia, F., Alves, I., Leite-Gomes, E., Cavadas, B., Dias, A.M., Moreira-Barbosa, C., Revés, J., Laird, R.M., Novokmet, M., Štambuk, J., Habazin, S., Turhan, B., Gümüş, Z.H., Ungaro, R., Torres, J., **Lauc, G.**, Colombel, J.-F., Porter, C.K., Pinho, S.S. (2024) A unique serum IgG glycosylation signature predicts development of Crohn's disease and is associated with pathogenic antibodies to mannose glycan. *Nature Immunology*, 10.1038/s41590-024-01916-8 5. Shkunnikova, S., Mijakovac, A., Sironic, L., Hanic, M., **Lauc, G.**, Kavur, M.M. (2023) IgG glycans in health and disease: Prediction, intervention, prognosis, and therapy. *Biotechnology Advances*, 67, 108169, 10.1016/j.biotechadv.2023.108169 6. Murray, A., Gough, G., Cindrić, A., Vučković, F., Koschut, D., Borelli, V., Petrović, D.J., Bekavac, A., Plećaš, A., Hribljan, V., Brunmeir, R., Jurić, J., Pučić-

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УМАРНИ ТАБЕЛАРНИ ПРИКАЗ ОСТВАРЕЊА ПРОФ. Др ГОРДАНА ЛАУЦА

ИМЕ И ПРЕЗИМЕ: ГОРДАН ЛАУЦ, УНИВЕРЗИТЕТ У ЗАГРЕБУ, ЗАГРЕБ, ХРВАТСКА	
РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА СА SCI-ЛИСТЕ	**Радови у међународним часописима изузетне вредности (М21а)** 1. Halama, A., Zaghlool, S., Thareja, G., Kader, S., Al Muftah, W., Mook-Kanamori, M., Sarwath, H., Mohamoud, Y.A., Stephan, N., Ameling, S., Pucic Baković, M., Krumsiek, J., Prehn, C., Adamski, J., Schwenk, J.M., Friedrich, N., Völker, U., Wuhrer, M., **Lauc, G.**, Najafi-Shoushtari, S.H., Malek, J.A., Graumann, J., Mook-Kanamori, D., Schmidt, F., Suhre, K. (2024) A roadmap to the molecular human linking multiomics with population traits and diabetes subtypes. *Nature Communications*, 15, 1, 7111, DOI 10.1038/s41467-024-51134-x 2. Chuquisana, O., Stascheit, F., Keller, C.W., Pučić-Baković, M., Patenaude, A.-M., **Lauc, G.**, Tzartos, S., Wiendl, H., Willcox, N., Meisel, A., Lünemann, J.D. (2024) Functional Signature of LRP4 Antibodies in Myasthenia Gravis. *Neurology neuroimmunology neuroinflammation*, 11, 3, e200220, 10.1212/NXI.0000000000200220 3. Hoshi, R.A., Plavša, B., Liu, Y., Trbojević-Akmačić, I., Glynn, R.J., Ridker, P.M., Cummings, R.D., Gudelj, I., **Lauc, G.**, Demler, O.V., Mora, S. (2024) N-Glycosylation Profiles of Immunoglobulin G and Future Cardiovascular Events. *Circulation Research*, 134, 5, E3-E14, 10.1161/CIRCRESAHA.123.323623 4. Gaifem, J., Rodrigues, C.S., Petralia, F., Alves, I., Leite-Gomes, E., Cavadas, B., Dias, A.M., Moreira-Barbosa, C., Revés, J., Laird, R.M., Novokmet, M., Štambuk, J., Habazin, S., Turhan, B., Gümüş, Z.H., Ungaro, R., Torres, J., **Lauc, G.**, Colombel, J.-F., Porter, C.K., Pinho, S.S. (2024) A unique serum IgG glycosylation signature predicts development of Crohn's disease and is associated with pathogenic antibodies to mannose glycan. *Nature Immunology*, 10.1038/s41590-024-01916-8 5. Shkunnikova, S., Mijakovac, A., Sironic, L., Hanic, M., **Lauc, G.**, Kavur, M.M. (2023) IgG glycans in health and disease: Prediction, intervention, prognosis, and therapy. *Biotechnology Advances*, 67, 108169, 10.1016/j.biotechadv.2023.108169 6. Murray, A., Gough, G., Cindrić, A., Vučković, F., Koschut, D., Borelli, V., Petrović, D.J., Bekavac, A., Plećaš, A., Hribljan, V., Brunmeir, R., Jurić, J., Pučić-

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РАДОВИ САОПШТЕНИ НА МЕЂУНАРОДНИМ СКУПОВИМА	Порофесор Гордан Лауц је саопштио 141 рад од тога 90 на међународним конференцијама. **Предавања одржана на међународним конференцијама:** 1. **Lauc G.** Glycans as biomarkers and functional effectors in cardiometabolic diseases. 12th ISABS Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine, Dubrovnik, Croatia, June 25th, 2022. 2. **Lauc G.** Can we decide to stop, or even revert glycan aging to slow down inflammaging? Science of Aging Symposium, Stockholm, Sweden, June 8th, 2022. 3. **Lauc G.** The Human Glycome Project–What Did We Learn from the Analysis of the First 100,000 People? 10th Annual Research Retreat of Weill Cornell Medicine Qatar, Doha, February 22nd 2020 4. **Lauc G.** Glycan Biomarkers. 3rd NCI Chronic GvHD Consensus Planning Meeting,

	Bethesda, November 14th, 2019. 5. **Lauc G.** The Human Glycome Project – Lauc G. The Human Glycome Project - What did we learn from the analysis of first 100,000 people, MSACL 2019, Salzburg, September 26th, 2019. 6. **Lauc G.** Transforming glycomics into a big data science. FEBS Congres 2019, Krakow, July 11th, 2019. 7. **Lauc G.** Glycans as Biomarkers and Functional Effectors in Diabetes and Cardiovascular Diseases, Beilstein Glyco-Bioinformatics Symposium 2019 "Time-proof Perspectives on Glycoscience", Limburg, June 27, 2019. 8. **Lauc G.** The Human Glycome Project, Advances in Biomedical Research III, Split, June 20th 2019. 9. **Lauc G.** The Human Glycome Project, 11th ISABS Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine, Split, June 20th 2019. 10. **Lauc G.** Glycans as biomarkers and functional effectors in diabetes and cardiovascular diseases, 11th ISABS Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine, Split, June 19th 2019. 11. **Lauc G.** Glycans as biomarkers and functional effectors in diabetes and cardiovascular diseases, 13th Jenner Glycobiology and Medicine Symposium, Boston, May 7th, 2019. 12. **Lauc G.** Big data glycomics, 2nd GlycoCom conference, Dubrovnik, Croatia, October 4th, 2018 13. **Lauc G.** High-throughput Glycomics in Patient Stratification - What Did We Learn from the First 60,000 Analyses, MSACL 2018, Salzburg, Austria, September 13, 2018. 14. **Lauc G.** High-throughput glycomics in patient stratification - what did we learn from the first 50,000 analyses, 9th From Solid State to Biophysics conference, Cavtat, Croatia, June 21, 2018 15. **Lauc G.** Glycan biomarkers for precision medicine – stratification of patients with diabetes and inflammatory diseases. 2018 Chinese Health Manageent Forum, Beijing, China, May 26th, 2018. 16. **Lauc G.** High-throughput Glycomics for Patient Stratification: What Did We Learn

	from the First 50,000 Analyses, Mayo GI Scientific Conference, Rochester, USA, April 4, 2018 17. **Lauc G**. High-Throughput Glycomics - What did we Learn From First 50,000 Analyses. MSB2018, Rio de Janeiro, Feb 19, 2018. (program) 18. **Lauc G**. IgG glycome as a dynamic biomarker of health and ageing. Potsdam Days on Bioanalysis, Potsdam, Germany. Nov 23, 2017 19. **Lauc G**, Glycans in molecular diagnostics. Symposium "Personalized Medicine and Molecular Diagnostics", Graz, Austria, Oct 25, 2017. 20. **Lauc G**, Patient stratification that transcends genomics: The story of 50,000 glycomes, 8th RECOOP Annual Project Review Meeting, Zagreb, Croatia, Oct 20, 2017. 21. **Lauc G**, Glycans are a novel biomarker of chronological and biological ages, 14. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin, Oldenburg, Germany, Oct 13, 2017. 22. **Lauc G**, Patient stratification that transcends genomics: protein glycosylation as a dynamic biomarker of health and disease, Mayo Individualizing Medicine Conference 2017, Rochester, USA, Oct 9, 2017. 23. **Lauc G**, Inter-individual differences in the IgG glycome; what did we learn from analyzing 40,000 IgG glycomes. Glyco XXIV, Jeju, Korea, Aug 27, 2017. (program) 24. **Lauc G**, High-throughput Glycomics for Patient Stratification: What Did We Learn from the First 50,000 Analyses. 10th ISABS conference, Dubrovnik, Croatia, June 19th, 2017. 25. **Lauc G**, Adding Glycomics to the Big Data Revolution: What Did We Learn from the First 50,000 Analyses. "Systems Glycomics" Beilstein Glyco-Bioinformatics Symposium 2017, Berlin, Germany, June 14th, 2017. (program) 26. **Lauc G**, IgG glycome in ageing and disease "Translational Glycobiology" 12th Jenner Glycobiology and Medicine Symposium, Dubrovnik, Croatia, May 8th, 2017. 27. **Lauc G**, Understanding health and ageing through glycobiology. Reversing the clock on biological ageing, London, Feb 25, 2017. (https://www.youtube.com/watch?v=EW4xNI1Zk80&t=98s) 28. **Lauc G**, Functional relevance of inter-individual differences in the IgG glycome.

GlycoBioTec 2017, Berlin, Feb 7, 2017.
29. **Lauc G**, The story of 50,000 glycomes. Society for Glycobiology Annual Meeting, New Orleans, USA, Nov 22nd, 2016
30. **Lauc G**, High-throughput glycomics in patient stratification: What did we learn from the first 50,000 analyses. International Technology Forum "In vitro-Diagnostics and Bioanalysis in the Era of Big Data and Systems Medicine", Berlin, Germany, October 5th, 2016.
31. **Lauc G**, IgG glycosylation in cGVHD. 3rd International Symposium and Advanced Postgraduate Course in chronic graft-versus-host disease: clinical practice and research. Zagreb, Croatia, September 21, 2016.
32. **Lauc G**, Age-related changes in the IgG glycome: Biomarkers or drivers of health deterioration. 20th Congress of the European Anthropological Association, Zagreb, Croatia, Aug 26, 2016.
33. **Lauc G**, Patient stratification beyond individual genes: Glycans as integrators of genes and environment. Game of Epigenomics Conference, Dubrovnik, Croatia, April 24-28, 2016.
34. **Lauc G**, High-throughput glycomics in patient stratification for personalized medicine. Glyco23 – 23rt International Symposium on Glycoconjugates, Split, Croatia, Sep 18, 2015. (http://www.glyco23.org)
35. **Lauc G**, Ubiquitous importance of protein glycosylation. Glyco23 – 23rt International Symposium on Glycoconjugates, Split, Croatia, Sep 15, 2015. https://www.youtube.com/watch?v=oaRgrQygI_k
36. **Lauc G**, Patient stratification beyond individual genes: Glycans as integrators of genes and environment. 9th ISABS Conference, Bol, Croatia, June 22, 2015. (http://www.isabs.hr/index.php/9thconference-program)
37. **Lauc G**, Patient stratification beyond individual genes: Glycans as integrators of genes and environment. Omics in Biomedical Research, Split, Croatia, June 12, 2015. (omics.medils.hr)
38. **Lauc G**, IgG glycosylation in inflammatory and autoimmune diseases. 2nd Graft versus Host Disease Symposium, Zagreb, Croatia, June 29, 2015.
39. **Lauc G**, Patient stratification beyond individual genes: Glycans as integrators of

	genes and environment. GlycoCom, Banff, Canada, May 4th, 2015. (glycocom2015.com) 40. **Lauc G**, Complex genetic regulation of IgG glycosylation. 11th Jenner glycobiology and medicine symposium, Paris, France, April 20th, 2015. 41. **Lauc G**, Genetic and epigenetic regulation of IgG glycosylation. 2014 Joint meeting of Society for Glycobiology and Japanese Society for Carbohydrate Research, Honolulu, November 16-19. 42. **Lauc G**, Adding glycomics to the big data revolution. 11. Treffpunkt Bioinformatik und Glykobiotechnologie, Berlin, November 7th, 2014. 43. **Lauc G**, Adding glycomics to the big□data revolution. InterOmics & MIMOmics symposium 2014, Rome, September 25th, 2014. 44. **Lauc G**, Complex Genetics of IgG Glycosylation. GlycoT 2014 conference, Porto, Portugal, June 19. 45. **Lauc G**, The application of monolithic affinity 96-well plates for high-throughput glycomics in genetic and epidemiological studies. Monoliths Summer School, Portorož, Slovenia, June 4th, 2014. 46. **Lauc G**, Protein glycosylation in patient stratification for personalized medicine. International Symposium on Translational and Clinical Medicine, Shanghai, China, May 29, 2014. 47. **Lauc G**, Complex Genetics of Protein Glycosylation. "OMICS – a magic wor(l)d" 4th Workshop on Genetic Epidemiology. Grainau, Germany, May 8th, 2014. 48. **Lauc G**, The importance of Fc glycosylation for immunoglobulin function. RGB Net Meeting, Zagreb, May 7th, 2014. 49. **Lauc G**, Complex Genetics of Protein Glycosylation. 2014 ASBMB Annual Meeting, San Diego, USA, April 27th, 2014. 50. **Lauc G**, Glycomics – proteomics as a tool to diagnose pain. 6th SIMPAR Meeting, Rome, Italy, March 28-29, 2014. 51. **Lauc G**, Complex genetics of protein glycosylation. 38th FEBS Congress, St. Petersburg, Russia, July 6-11,2013. 52. Rudd P, Stockmannn H, Adamczyck B, Carta G, **Lauc G**. Linking the genome and the glycome: state-of-the-art glycoanalytics for systems glycobiology, biomarker

	discovery and the pharmaceutical industry. EUROCARB 17, Tel Aviv, Israel, July 7-11, 2013. 53. **Lauc G**, Predicting age from biological markers in forensic traces. 8th ISABS Conference, Split, June 24-28, 2013. 54. Primorac D, **Lauc G**. Protein glycosylation in personalized medicine. 8th ISABS Conference, Split, June 24-28, 2013. 55. **Lauc G**, Genes affecting glycosylation of human IgG show pleiotropy with autoimmune diseases and haematological cancers. Glyco XXII, Dalian, China, June 23-28, 2013. 56. **Lauc G**, Genes affecting N-glycosylation of human proteins show pleiotropy with autoimmune diseases, cancer, diabetes and neuropsychiatric disorders. Glycobiology Gordon Research Conference, Ventura, CA, March, 3-8, 2013. 57. **Lauc G**, Glycomics meets genomics. 23rd Joint Glycobiology Meeting, Wageningen, Netherlands, November 25-27, 2012. 58. **Lauc G**, The ubiquitous importance of protein glycosylation. EuroGlycoForum Special Interest Symposium "Protein glycosylation in human disease" at EMBO 2012 Congress, Nice, France, Sep 22, 2012 59. **Lauc G**, Genome Wide Association Studies of the Human Plasma and IgG glycomes. "Increasing the Impact of Glycoscience through New Tools and Technologies Conference", San Sebastian, Spain, July 19 – 21, 2012 60. **Lauc G**, The ubiquitous importance of protein glycosylation. GlycoGenomics Conference, Split, Croatia, May 29, 2102. 61. **Lauc G**, Complex genetics of protein glycosylation. "Glycochips become a routine instrument" workshop, Moscow, October 10-12, 2011. 62. Thanabalasingham G, Kattla J, Huffman J, Hayward C, Rudan I, Novokmet M, Wilson JF, Wright AF, Campbell H, Owen K, Rudd PM, McCarthy MI and **Lauc G**. Fucosylation of plasma proteins is markedly decreased in maturity-onset diabetes of the young – proof of principle for the integrated genomic/glycomic approach to glyco-biomarker discovery. GLYCO XXI, Vienna, Aug 21-26, 2011. 63. **Lauc G**, Antennary fucosylation of plasma proteins is a reliable diagnostic marker for HNF1A-MODY: Translation of a glycome-GWAS hit into a clinically useful

	screening tool. 7th ISABS conference Conference in Forensic, Anthropologic and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, Bol, Croatia, June 20-24,2011. 64. **Lauc G**, and Zoldoš V Epigenetics of protein glycosylation. Clinical Epigenetics Society (CLEPSO) International Meeting. Homburg/Saar, Germany, March 11-12, 2011. 65. **Lauc G**, Complex Genetic Regulation of Protein Glycosylation. Glycomics meets genomics - novel strategies in combining omics approaches. Dubrovnik, April 23 – 26, 2010. 66. Rudd PM, Kneževic A, Rudan I, Campbell H, Hayward C, Wright A, Doherty M, Bones J, O'Donoghue N, Campbell M, and **Lauc G**. Linking Glycome and Genome: Robotic HPLC Based Platform Establishes the Variability, Heritability and Environmental Determinants of Human Plasma N-Glycome. HPLC 2010 - 35th International Symposium on High Performance Liquid Phase Separations and Related Techniques, Boston, USA, June 19-24, 2010. 67. Rudd PM, Hayward C, Essafi A, Huffman JE, Knežević A, Polašek O, Gornik O, Vitart V, Zgaga L, Pučić M, Redžić I, Borovečki F, Hastie ND, Wilson JF, Wright AF, Campbell H, **Lauc G**, Rudan I. Glycomics analysis combined with a genome-wide association study identifies loci involved in regulation of the human plasma N-glycome. Glyco XX. San Juan, Puerto Rico, November 29 – December 4, 2009. Glycoconjugate J 26:802-802. 68. **Lauc G**, Gornik O, Wagner J, Pučić M, Knežević A, and Redžić I. Stability of human plasma N-glycome. Glyco XX. San Juan, Puerto Rico, November 29 – December 4, 2009. Glycoconjugate J 26:862-862. 69. **Lauc G**, Protein glycosylation - a sweet evolutionary secret of higher eukaryotes. Darwin's living legacy: An international conference on evolution and society. Alexandria, Egypt, November 13 – 16, 2009. 70. Wagner J, Gornik O, Gornik I, Gašparović V, and **Lauc G** (2008) Free serum DNA is early predictor of severity in acute pancreatitis. 20th International Congress of Clinical Chemistry and Laboratory Medicine, Fortaleza, Brasil, 28th September – 2nd October, 2008. 71. Gornik O and **Lauc G**. Glycobiology of Stress. World Conference of Stress,

	Budapest, August 23 – 26, 2007. 72. **Lauc G**, Glycosylation of recombinant erythropoietin – more glycans make a better drug. 10th CROPBSA International Interdisciplinary Summer School, Zadar, July 23-30, 2007. 73. **Lauc G**, Glycobiology of stress. EMBO/HHMI Central European Scientists Meeting, 2006 Dubrovnik, Croatia 15 - 17 June, 2006 74. **Lauc G**, Effects of Stress on the Immune System 9th CROPBSA International Interdisciplinary Summer School, Zadar, July, 2006. 75. **Lauc G**, Stress – the most threatening epidemic of modern world. 8th CROPBSA International Interdisciplinary Summer School, Obonjan Island, August 7-14, 2005. 76. Heffer-Lauc M., Viljetić B, Ćurić G, and **Lauc G**. "Ganglioside immunohistochemistry – shooting at a moving target" Glycoproteomics: protein modifications for versatile functions - Satellite Meeting to the 30th FEBS Congress and 9th IUBMB Conference, Dubrovnik, Croatia, June 28 – 30, 2005. 77. Dzijan S, Primorac D, Marcikic M, **Lauc G**. "Is likelihood ratio a sufficient tool to estimate confidence of a genetic match in a DNA-lead process of identification of war victims?" 13th International Meeting on Forensic Medicine Alpe-Adria-Pannonia, Graz, Austria, May, 21-22, 2004. 78. **Lauc, G**. Genetic data as a tool to find missing people. UNESCO Conference on Universal Declaration on the Human Genome and Human Rights: Present Status and Future Perspectives, Zagreb, Croatia, June 12-14, 2003. 79. **Lauc G**. The Role of DNA Typing in the Process of Identification of War Victims Szeged Advanced Course in Forensic Medicine, Szeged, Hungary, April 13-17, 2003 80. **Lauc G**. Photoreactive glycoprobes: a new tool to analyze lectin activity in complex biological samples. Eutron Glycobiology Town Meeting 4: Innovations in Carbohydrate Analysis, Eurotron Conferencing Centre, April 7 – 11, 2003. 81. **Lauc G**., Gornik I. and Marcikić M. How many STR loci have to be analyzed for a reliable identification by reverse paternity determination? 11th International Meeting on Forensic Medicine Alpe-Adria-Panonia, Visegrad, Hungary, May 1-5, 2002. 82. **Lauc G**. Lectins as a tool to analyze glycoproteins and vice versa. 2nd FEBS Advanced Course: Glycoconjugates – Versatile Structures and Intriguing Functions,

Dubrovnik, September 24-30, 2001.
83. **Lauc G.**, Gornik, I. and Marcikić, M. Identification of victims from a mass grave in Ćelije by STR profiling. 10th International Meeting on Forensic Medicine Alpe-Adria-Panonia, Opatija, Croatia 23 – 26 May, 2001.
84. **Lauc G.** and Flögel M. Glycosylation changes in stress and disease. SIB2000, Naples, 19-23 September 2000.
85. **Lauc G.** Glycosylation in rheumatoid diseases. University of Newcastle upon Tyne Medical School, Newcastle upon Tyne, U.K., March 17, 2000.
86. **Lauc G.** Glycopathology. FEBS Advanced Course: Glycoconjugates – Versatile Structures and Intriguing Functions, Opatija, September 24-30, 1999.
87. **Lauc G.** Lectins as a tool to analyze glycoproteins. FEBS Advanced Course: Glycoconjugates – Versatile Structures and Intriguing Functions, Opatija, September 24-30, 1999.
88. Flögel M., **Lauc G.** Psychological stress acts at the molecular level. International symposium "New insights in post-traumatic stress disorder (PTSD)" organized by the Croatian Academy of Sciences and Arts, Zagreb, March 26, 1999.
89. **Lauc G.** Physiological Components of Persistent Stress. Posttraumatic Stress Sequealae of Head Injury: Brain, Body and Soul - Joint meeting of the International Society for Traumatic Stress Studies and the New York Academy for Traumatic Brain Injury, New York, December 5th 1997.
90. **Lauc G.** Stressin - a stress induced human serum glycoprotein. Stress of life: Stress and adaptation from molecules to man. Budapest, Hungary, 1-5 July 1997.

Предавања одржана на националним конференцијама

1. **Lauc G.** Glycans as biomarkers of lifestyle diseases. 6th International Congress of Nutricionists, Zagreb, Oct 27, 2018.
2. **Lauc G.** Glikozilacija proteina kao biomarker u personaliziranoj medicine, HAZU - Molekularna genetika – novosti u dijagnostici i terapiji, Zagreb, Oct 16, 2017.
3. **Lauc G.** Farmakoglikomika, Četvrti kongres Udruge studenata farmacije i medicinske biokemije hrvatske, Oct 15, 2017
4. **Lauc G.** Pharmacoglycomics. 4.th Croatian Congress of Clinical Pharmacy, Zagreb,

	Croatia, April 20, 2017. 5. **Lauc G**. Patient stratification beyond individual genes: Glycans as integrators of genes and environment. 8. Hrvatski kongres farmakologije, Split, Sep 16th, 2016. 6. **Lauc G**. "Glycans as integrators of genes and environment – an often-ignored layer of biological complexity". Hrvatski biološki kongres, Sv. Martin na Muri, Sep 23, 2015. 7. **Lauc G**. Patient stratification beyond individual genes: Glycans as integrators of genes and environment. Šesti hrvatski kongres humane genetike, Split, Nov 5th, 2015. 8. **Lauc G**. *"Glikomika – vise od još jedne omike"*. Znanstveni skup HAZU "Nova dostignuća hrvatskih znanstvenika iz bioinformatike i biološke fizike", Zagreb, 21. studenoga 2012. 9. **Lauc G**. *"Loci Associated with N-glycosylation of Human Immunoglobulin G Show Pleiotropy with Autoimmune Diseases and Haematological Cancers"*, HDIR-2 From bench to clinic, Zagreb, November 8-9, 2012 10. **Lauc G**. *Genome wide association studies of the human plasma and IgG glycomes*. 3rd Congress of Croatian Geneticists, Krk, Croatia, May 13-16,2012. 11. **Lauc G**. Complex genetics of protein glycosylation. 10th Congress of the Croatian Society of Biochemistry and Molecular Biology with International Participation Opatija, Croatia, September 15–18, 2010. 12. Wagner J. and **Lauc G.** Primjena suvremenih metoda analize DNA u prenatalnoj dijagnostici. 2. Hrvatski kongres laboratorijske dijagnostike. Šibenik, 8. – 12. svibnja 2008. 13. Džijan D., Biruš I., Marcikić M., Lauc D. and **Lauc G.** How high paternity index is needed for reliable identification of war victims by DNA typing? 8th Croatian Biological Congress, Zagreb, September 30 – October 2, 2003. 14. **Lauc G.** Novel methods reveal functional aspects of versatile glycan structures. CCOMLIS 1, First Croatian Congress on Molecular Life Sciences, Opatija, June 9-13, 2002. 15. **Lauc G.** Glycosylation changes in rheumatoid diseases. HB2000 - 25th Jubilee Congress of the Croatian Biochemical Society, Zagreb, October 13-15, 2000. 16. **Lauc G.** *Digoxin derivatives as a tool to study carbohydrate-lectin interactions*. Annual Meeting of Croatian Biochemists, Bizovac, 17-20 September 1998. 17. **Lauc G**. *Utjecaj interneta na biokemiju*. Godišnji sastanak hrvatskih biokemičara, Zagreb 8. – 9. rujna 1997. 18. **Lauc G.**, Barišić K., Muller W and Flögel M. *Carbohydrate binding proteins and stress*. Annual Meeting of Croatian Biochemists, Opatija 14-15 October, 1994.

<table>
<tr><td colspan="2">РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ</td><td>Др Гордан Лауц је професор биохемије и молекуларне биологије на Универзитету у Загребу. Био је директор Националног центра научне изврсности у персонализираној здравственој заштити (2016-2021), почасни професор на Универзитету у Единбургу и Кингс колеџу у Лондону и члан „Удружења научника Џонс Хопкинс“. Од 2019. године је гостујући професор на „Harvard Medical School“. У периоду 2015-2017 био је председниг „Међународне организације за гликокоњугате“ (International Glycoconjugate Organisation) Године 2017. иницирао је покретање пројекта „Хумани Гликом“ и један је од његова два ко-директора. Његов истраживачки тим је пионир у анализи гликома високе пропусности и примени гликанских биомаркера у области прецизне медицине. Аутор је 4 национална и 9 интернационалних патената. До сада је под његовим менторством докторирало 24 кандидата.</td></tr>
<tr><td colspan="2">ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА</td><td>Према бази података Scopus, радови проф. Lauca су на дан 16. 09. 2024. цитирани 11577 пута (H-индекс 58), односно 9009 пута без аутоцитатата (H-индекс 50).</td></tr>
<tr><td rowspan="2">МЕЂУНАРОДНА РЕПУТАЦИЈА</td><td>ГЛАВНИ УРЕДНИК И ОСНИВАЧ МЕЂУНАРОДНОГ ЧАСОПИСА</td><td></td></tr>
<tr><td>ОРГАНИЗАЦИЈА И ПРЕДСЕДАВАЊЕ СЕКЦИЈАМА НА МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА</td><td>Организација научних конференција

1. Longevity Symposium celebrating 10th anniversary of epigenetic and glycan clocks of aging, Rovinj, October 7th, 2023
2. 4th Human Glycome Project Meeting, Split, June 4-7th, 2023
3. 3rd Human Glycome Project Meeting, Split, November 2-5th, 2021
4. 2nd Human Glycome Project Meeting, Split, June 19-20th, 2019
5. 1st Human Glycome Project Meeting, Dubrovnik, October 6th, 2018
6. 12th Jenner Glycobiology and Medicine Symposium “Translational Glycobiology”, Dubrovnik, May 6-9, 2017
7. Glyco XXIII; 23rd Conference of the International glycoconjugate organization, Split, August, 2015
8. Co-Organizer of the «Summer School of Statistical Omics», Split, Croatia, August 1-15, 2014-2016</td></tr>
</table>

		9. Workshop "Protein glycosylation in personalized medicine" at the 8th ISABS Conference, Split, Croatia, June 24-28, 2013 10. EuroGlycoForum Special Interest Symposium «Protein glycosylation in human disease» at EMBO 2012 Congress, Nice, France, September 22-25, 2012. 11. Workshop "Protein glycosylation in diagnostics and therapy" at the 7th ISABS Conference, Bol, Croatia, June 21-25, 2011 12. Co-Organizer of the „Glycomics meets genomics - novel strategies in combining omics approaches" conference, Dubrovnik, April 23 – 26, 2010. 13. Co-Organizer of the „European Science Foundation Exploratory Workshop on Glycoscience", Kolocep, Croatia, 2007. 14. Satellite to FEBS/IUBMB congress in Budapest: „Glycoproteomics – protein modifications for versatile functions ", Dubrovnik, 2005 15. Secretary of the Organizing Board of the FEBS Advanced Course *Glycoconjugates - versatile structures and intriguing functions*, Dubrovnik, Sep 24-30. 2001
	УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	*Гост уредник посебног броја часописа BBA – General Subjects: „Glycoproteomics"* (2006, 2012, 2016)
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ ЧАСОПИСА	*Biochimica et Biophysica Acta (BBA) - General Subjects* *Scientific Reports*
	АУТОР КЊИГЕ ИЛИ МОНОГРАФИЈЕ	**Књиге/монографије у којима је био аутор или едитор** 1. *High-Throughput Glycomics and Glycoproteomics: Methods and Protocols* (Methods in Molecular Biology Book 1503), by **Gordan Lauc** (Editor), Manfred Wuhrer (Editor), Humana Press, 2016, 274 pp., ISBN-10: 1493964917, ISBN-13: 978-1493964918 2. *The Role of Glycosylation in Health and Disease* (Advances in Experimental Medicine and Biology 1325), by **Gordan Lauc** (Editor), Irena Trbojevic-Akmacic (Editor), Springer Nature Switzerland AG, 2021, 376, ISBN- 978-3-030-70114-7, 3. **Lauc G.**, stručni urednik prevoda (2010) Stanica: molekularni pristup. Prijevod udžbenika G.M. Cooper & R.E. Hausman, The Cell - A Molecular Approach, 5th edition, Medicinska Naklada, Zagreb. 4. Maravić Vlahoviček G, Čubrilo S, Dabelić S, Dumić J, Gornik O, **Lauc G**, Šupraha

Goreta S (2010) Molekularna biologija s genetičkim inženjerstvom - praktikum, Farmaceutsko-biokemijski fakultet, Zagreb, ISBN 978-953-6256-59-4.

5. Boranić M, Balog T, Čurić G, Gabrilovac J, Gregurek R, Koršić M, **Lauc G**, Marotti T, Martin-Klein I, Pivac N, Mück-Šeler D, Sabioncello A, Stojević Z and Trkulja V (2008) Psihoneuroimunologija, Školska knjiga, Zagreb
6. Primorac D., Marjanović D., **Lauc G.**, Ćurić G., Gornik I., Anđelinović Š., Delfinis-Gojanović M., Sutlović D., Primorac D., Tivac T., Mršić G., Uvodić P., Markotić A., Le Due J.W., Miller Coyle H., Palmbach TM., Asplen C. Analiza DNA u sudskoj medicini i pravosuđu, Medicinska naklada, Zagreb, 2008.
7. **Lauc G.** (guest editor) BBA special issue: Glycoproteomics, Elsevier, 2006.
8. Jakšić Ž., Pokrajac N., Šmalcelj A., Vrcić-Keglević M, **Lauc G.** i ostali. Umijeće medicinske nastave. Medicinska naklada, Zagreb, 2005. ISBN 953-176-303-8
9. **Lauc G.,** stručni urednik prijevoda (2004) Stanica: molekularni pristup. Prijevod udžbenika G.M. Cooper & R.E. Hausman, The Cell - A Molecular Approach, Medicinska Naklada, Zagreb, 2004.
10. Maravić G., Dabelić S., Dumić J., Gornik O., **Lauc G.**, Marcelić T., Šupraha S. Molekularna biologija. Praktikum Zagreb: Farmaceutsko-biokemijski fakultet, 2004.
11. Flögel M., Lauc G., Dumić J., Maravić G. Dabelić S. Biokemijski praktikum II. Fizikalna, preparativna i analitička biokemija Zagreb: Farmaceutsko-biokemijski fakultet, 2003
12. Primorac D., Anđelinović Š., Čule J., Definis-Gojanović M., Gornik I., **Lauc G.**, Pivac T., Primorac D. Primjena analize DNA u sudskoj medicini i pravosuđu. Nakladni zavod Matice hrvatske, Zagreb, 2001.
13. Flögel M., **Lauc G.** Praktikum iz biokemije za srednje škole. Školska knjiga, Zagreb, 1998.
14. Flögel M, Žanić-Grubišić T., **Lauc G.**, Barišić K. Biokemija - temelj znanosti o životu. FBF, Zagreb, 1995.
15. Flögel M., Barišić K., **Lauc G.** Preparativna Biokemija - praktikum. FBF, Zagreb, 1994. ISBN 953-6256-01-0

Књиге/монографије у којима је био аутор поглавља

1. Vilaj M., Gudelj I., Trbojević-Akmačić I., **Lauc G.**, Pezer M. (2019) IgG Glycans as a Biomarker of Biological Age. In: Moskalev A. (eds) Biomarkers of Human Aging.

		Healthy Ageing and Longevity, vol 10. Springer, Cham 2. Gornik O, Keser T and **Lauc G** (2016) Separation and purification of glycans out of glycoproteins. In Mičić M (Ed) Sample preparation techniques for soil, plant, and animal samples. New York: Humana Press, pg. 377-388. DOI 10.1007/978-1-4939-3185-9_27. 3. Krištić J, Zoldoš V, **Lauc G** (2015) Complex genetics of protein glycosylation in Taniguchi N, Endo T, Hart G, Seeberger P, Wong C-H (Eds) Glycoscience: Biology and Medicine, Springer Reference, DOI 10.1007/978-4-431-54841-6_179. 4. Holland MM and **Lauc G** (2014) Forensic Aspects of mtDNA Analysis. In Primorac D and Schanfield M (Eds) Forensic DNA Applications: An Interdisciplinary Perspective, CRC Press, ISBN 9781466580220. 5. Menotti-Raymond MA, David VA, O'Brien SJ, Kanthaswamy S, Projić P, Škaro V, **Lauc G**, and Linacre A (2014) Forensic Animal DNA Analysis. In Primorac D and Schanfield M (Eds) Forensic DNA Applications: An Interdisciplinary Perspective, CRC Press, ISBN 9781466580220. 6. Viljetić B, Heffer-Lauc M, **Lauc G** (2010) Trans-cellular mobility of GPI-anchored proteins in Dangerfield J and Metzner C (Eds) GPI Membrane Anchors - the much needed link. Bentham Publishers (http://www.bentham.org/ebooks/9781608051236/index.htm) p19-33. 7. Ćurić G. i **Lauc G.** (2008) Forenzična analiza DNA životinjskog porijekla. u Primorac D. i Marjanović D. (Ur.) Primjena analize DNA u sudskoj medicini i pravosuđu. Medicinska naklada, Zagreb, pp.59-72. 8. Gornik I. i **Lauc G.** (2008) Analiza mitohondrijske DNA za potrebe sudsko-medicinskog vještačenja. u Primorac D. i Marjanović D. (Ur.) Primjena analize DNA u sudskoj medicini i pravosuđu. Medicinska naklada, Zagreb, pp.183-198. 9. **Lauc G.**, and Ćurić G (2008) Glikobiologija stresa. U M. Boranić (ur.) Psihoneuroimunologija, Školska knjiga, Zagreb 10. **Lauc G.**, and Flögel M. (2007) Glycobiology of stress. in G. Fink (ed.) Encyclopedia of Stress second edition Vol. 2, Academic Press, Oxford, pp. 222 - 227. 11. Flögel M., Šupraha Goreta S. and **Lauc G.** (2007) War stress in the former Yugoslavia. in G. Fink (ed.) Encyclopedia of Stress second edition Vol 3, Academic Press, Oxford, pp 855-859. 12. Gornik I. and **Lauc G.** (2001) Primjena analize mitohondrijske DNA u sudskoj medicini. u Primorac D. (Ur.) Primjena analize DNA u sudskoj medicini i pravosuđu.

		Nakladni zavod Matice hrvatske, Zagreb, pp. 63-79 13. Flögel M. and **Lauc G.** (2000) War stress in the former Yugoslavia. in G. Fink (ed.) Encyclopedia of Stress Vol 3, Academic Press, San Diego, pp 678-683. 14. **Lauc G.**, and Flögel M. (2000) Glycobiology of stress. in G. Fink (ed.) Encyclopedia of Stress Vol. 2, Academic Press, San Diego, pp. 276-282. 15. **Lauc G.**, Dumić J., and Flögel M. (2000) Glycobiological machinery in the response to psychological stress, Current studies in biotechnology. Vol. 1 - Biomedicine, Croatian Society of Biotechology, Zagreb 2000 (ISBN 953-98094-0-1), pp 101-108.
НАПОМЕНА		**Међународни пројекти** 1. Руководилац истраживачке групе у ФП7 пројекту „**HTP-GlycoMet – Методе за високопропусну гликопротеомску анализу**“, уговор о гранту бр: 324400, 2013-2017 2. Шеф истраживачке групе у ФП7 пројекту „**PainOmics – Мулти-димензионални омички приступ стратификацији пацијената са болом у доњем делу леђа**“, уговор о гранту бр: 602736, 2013-2018 3. **Координатор ФП7** Регпот пројекта „**Integra-Life - Integrating research in molecular life sciences at the University of Zagreb**“ (3,2 милиона Еур) 2013-2017 4. „Scientist in Charge“ хрватског дела ФП7 пројекта „**MIMOmics – Methods for integrated analysis of multiple omics datasets**“, уговор о гранту бр: 305280, 2012-2017 5. „Scientist in Charge“ хрватског дела ФП7 пројекта „**IBD-BIOM – Diagnostic and prognostic biomarkers for inflammatory bowel disease**“, уговор о додели бесповратних средстава бр:305479, 2012-2016 6. „Scientist in Charge“ хрватског дела ФП7 пројекта „**HighGlycan – Methods for High-Throughput (HTP) Analysis of Protein Glycosylation**“, уговор о гранту бр: 278535, 2011-2016 7. „Scientist in Charge“ хрватског дела ФП7 пројекта „**GlycoBioM - Tools for the Detection of Novel Glyco-biomarkers**“, уговор о бесповратној помоћи бр: 259869, 2011-2015 8. „Scientist in Charge“ хрватског дела ФП7 пројекта „Marie Curie Initial Training Networks (ITN) projekta „**EuroGlycoArrays - Development of Carbohydrate Array**

Technologies to Systematically Explore the Functional Role of Glycans in Healthy and Diseased States“, 2008-2012

9. Истраживач на ФП7 пројекту „**INTEGERS, Integrating and Strengthening Genomic Research in South-Eastern Europe**“, 2008-2010
10. **Координатор ФП6** пројекта „**EuroPharm - Enhancing the capacity of the University of Zagreb Faculty of Pharmacy and Biochemistry for the participation in the European research area**“ (INCO-043682) 2007-2010
11. „Scientist in Charge“ хрватског дела ФП6 Marie Curie Research Training Network пројекта „**Glycogold: Exploration of the nature and potential of Glyco-nano-particles**“ (MRTN-CT-2004-005645), 2005-2009
12. Сарадник на ФП6 интегрисаном пројекту: „**GENDEP - Genome-Based therapeutic drugs for depression**“. 2004-2007
13. Истраживач у NIH конзорцијуму "**Consortium for functional glycomics**", NIH grant 2U54GM062116 "**Protein Carbohydrate Interactions in Cell Communication**", http://www.functionalglycomics.org/ 2004-2006
14. **Коруководилац пројекта NIH** #1P03TB01477-01 „**Glycosylation and Human Lectins in Rheumatoid Disease**“, заједно са др. Y. C. Lee са Универзитета Џонс Хопкинс 2001-2005

Национални пројекти

15. Руководилац програма MZOŠ #0061194 "**Функционална гликомика биолошких процеса**" 2007-2012
16. Руководилац пројекта MZOŠ #309-0061194-2023 "**Гликопротеомика стреса и болести повезаних са стресом**" 2007-2012
17. Руководилац пројекта "Protein glycosylation and human lectins in health and disease" #0209041, финансијер Министарство науке Хрватске
18. Руководилац технолошког пројекта МЗТ „**Деривати дигоксина као биомедицински реагенси**“ 2001-2004
19. Руководилац подстицајног пројекта МЗТ #006-321 "**Гликозилација протеина у патолошким трудноћама**" 1998-2001
20. Руководилац пројекта МЗТ #127009 "**Биолошки ефекти новосинтетизованих ДНК интеркалатора**" 1998-2001

Предавања по позиву

1. **2nd FEBS Advance Course on Glycoconjugates**, Dubrovnik, Croatia, 2001
2. **1st International GlycoBioTec symposium**, 2017, Berlin, "Functional relevance of inter-individual differences in the IgG glycome" (*Invited lecturer*)
3. **11th ISABS conference and on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine**, 2019, Split, "Glycans as biomarkers and functional effectors in diabetes and cardiovascular diseases" (*Invited lecturer*)
4. **12th ISABS conference**, 2022, Dubrovnik, "Glycans as biomarkers and functional effectors in cardiometabolic diseases" (*Invited lecturer*)
5. **Longevity Med Summit**, 2023, Cascais, "IgG glycans are biomarkers and modifiable functional effectors of disease risk" (*Invited lecturer*)
6. 13th ISABS Conference on Applied Genetics and Mayo Clinic Lectures in Translational Medicine ", 2024, Split, "Glycan biomarkers for personalized preventive healthcare" (*Invited lecturer*)
7. **13th ISABS conference**, 2024, Split, "Glycan biomarkers for personalized preventive healthcare" (*Plenary lecture*)

Награде и признања

2014 Хрватска национална награда за науку
2011 Избор за чланство у „Удружењу научника Џонс Хопкинс"
2001-2007 Гостујући професор, Одсек за биологију, Универзитет Џонс Хопкинс, Балтимор, МД
1999 GLYCO XV награда за младе научнике
1997/1998 Фулбрајтова стипендија
1997 Хрватска национална награда за науку за младе научнике
1997 Hans Seyle награда за младе научнике, Будимпешта