



EUROPEAN SCIENCE FOUNDATION

Research Networking Programme:

EuroGlyco Forum

5th Steering Committee Meeting

DRAFT AGENDA

Date and Time: *Thursday Thursday 21st March 2013 2.00 – 4.00pm*

Place: *NHow Hotel, Berlin Germany*

Attending *Steering Committee, Interest Group Chairs, Non-voting Observers, External Programme Coordinator*

Chairperson Professor Sabine Flitsch

Attendees

Dr Tiina Alamäe	Estonia
Professor Bjørn E. Christensen	Norway
Professor Jana Čopíková	Czech Republic
Professor Jukka Finne	Finland
Professor Hans Kamerling	Netherlands
Professor Gordan Lauc	Croatia
Professor Jan Mucha	Slovakia
Professor Jean-Claude Michalski	France
Professor Ghislain Opdenakker	Belgium
Professor Soledad Penadés	Spain
Professor Stefana Petrescu	Romania
Professor Amélia Pilar Rauter	Portugal
Professor Pauline Rudd	Ireland
Professor Dr. László Somsák	Hungary

Professor Dr Carlo Unverzagt

Germany

Non Voting Attendees

Professor Serge Pérez

Advisory Expert

**Dr Tony Merry
coordinator**

External programme

EUROPEAN SCIENCE FOUNDATION

Standing Committee for the Life, Earth and Environmental
Sciences LESC

Research Networking Programme on “Glycoscience”, 2009-2014

Agenda

Chair Professor Sabine Flitsch

- 1. Apologies for Absence**
- 2. Welcome and opening remarks – *Prof Sabine Flitsch***
- 3. Approval of the agenda and minutes of the previous meeting**
- 4. Items arising from minutes**

- 5. White paper on the future of Glycoscience in Europe -**
Prof Sabine Flitsch
- 6. Budget and expenditures-** *Dr Tony Merry*
- 7. Report of Coordinator on his activities -** *Dr Tony Merry*
- 8. Outreach Activities** *see Appendix 1 - Dr Tony Merry*
- 9. Web site** *Prof Amelia Pilar-Rauter*
- 10. Meetings Sponsored since August 2012- reports**
- 11. COST grant application-** *see Appendix 2 - Dr Tony Merry*
- 12. Proposals for other meetings**
- 13. Preparation of final report (Network ends in May 2014)**
- 14. Any other business**
- 15. Date of next meeting (2014)**

IV. Research Grants:

2012 – 2017	Group leader in FP7 project MIMOmics – Methods for integrated analysis of multiple omics datasets, grant agreement no: 305280, coordinator Jeanine Houwing
2012 – 2016	Group leader in FP7 project IBD-BIOM – Diagnostic and prognostic biomarkers for inflammatory bowel disease, grant agreement no:305479, coordinator Jack Satsangi
2011 – 2016	Group leader in FP7 project HighGlycan - Methods for High-Throughput (HTP) Analysis of Protein Glycosylation, grant agreement no: 278535, coordinator Manfred Wuhrer
2011 – 2015	Group leader in FP7 grant GlycoBioM - Tools for the Detection of Novel Glyco-biomarkers, grant agreement no: 259869, coordinator Sabine Flicht
2008 – 2013	Group leader in FP7 Marie Curie Initial Training Networks (ITN) grant EuroGlycoArrays - 'Development of Carbohydrate Array Technologies to Systematically Explore the Functional Role of Glycans in Healthy and Diseased States, coordinator Sabine Flicht.
2008 – 2010	Group leader in FP7 grant INTEGERS, Integrating and Strengthening Genomic Research in South-Eastern Europe, coordinator Fran Borovečki
2007 – 2010	Coordinator, FP6 grant #INCO-CT-2006-043682-EURPHARM "Enhancing the capacity of the University of Zagreb Faculty of Pharmacy and Biochemistry for the participation in the European Research Area"
2007 – 2012	PI of the Croatian Ministry of Science grant #309-0061194-2023 „Glycoproteomics of stress and stress-related diseases“
2005 – 2009	Group leader in FP6 Marie Curie Research Training Network project „Glycogold: Exploration of the nature and potential of Glyco-nano-particles“ (MRTN-CT-2004-005645), coordinated by J.F.G. Vliegthart, Utrecht
2004 – 2011	Participating investigator in NIH funded „Consortium for functional glycomics“, NIH grant 2U54GM062116 „Protein Carbohydrate Interactions in Cell Communication“, Coordinator: James Paulson, The Scripps Institute, www.functionalglycomics.org
2002 – 2006	PI of the Croatian Ministry of Science grant #0209041 "Protein glycosylation and human lectins in health and disease"
2001 – 2005	Foreign principal investigator on NIH – FIRCA grant #1R03TW01477 „Glycosylation and Human Lectins in Rheumatoid Disease“; US-PI: Dr. Y. C. Lee, The Johns Hopkins University

V. Organization of conferences:

2011	Workshop "Protein glycosylation in diagnostics and therapy" at the 7 th ISABS Conference, Bol, Croatia, June 21-25,
2010	Co-Organizer of the „Glycomics meets genomics - novel strategies in combining

	omics approaches“ conference, Dubrovnik, April 23 – 26, 2010.
2007	Co-Organizer of the „European Science Foundation Exploratory Workshop on Glycoscience“, Kolocep, Croatia, 2007.
2005	Organizer of the Satellite to FEBS/IUBMB congress in Budapest: „Glycoproteomics – protein modifications for versatile functions“, Dubrovnik, 2005
2001	Secretary of the Organizing Board of the FEBS Advanced Course <i>Glycoconjugates - versatile structures and intriguing functions</i> , Dubrovnik, Sep 24-30.
1999	Secretary of the Organizing Board of the FEBS Advanced Course <i>Glycoconjugates - versatile structures and intriguing functions</i> , Opatija, Sep 24-29.
1997	President of the Organizational Board of HB97, Annual Congress of the Croatian Biochemical Society
1997	Organizer of the workshop “ <i>War Stress</i> ” on the congress “ <i>Stress of Life: Stress and adaptation from molecules to man</i> ”, Budapest

VI. Honors and awards:

2012	Election for the Honorary Professor at the University of Edinburgh
2011	Election to membership in the “Johns Hopkins Society of Scholars”
1999	GLYCO XV Young Scientist Award
1997/1998	Fulbright Fellowship
1997	Croatian National Award for Science for Young Scientists
1997	Hans Seyle Award for Young Scientists, Budapest

VII. Publications

1.1. Publications in journals belonging to top 10% of journals in the field

- Zoldoš V, Horvat T, **Lauc G** (2013) Glycomics meets genomics, epigenomics and other high throughput omics for system biology studies. *Curr Opin Chem Biol* 17:34-40. <http://dx.doi.org/10.1016/j.cbpa.2012.12.007> (IF=9,850; rank 16/289 – Biochemistry & Mol Biol, median IF = 2,857)
- Lauc, G.**, Huffman, J., Pučić, M., Zgaga, L., Adamczyk, B., Mužinić, A., Novokmet, M., Polašek, O., Gornik, O., Krištić, J., Keser, T., Vitart, V., Scheijen, B., Uh, H.W., Molokhia, M., Patrick, A.L., McKeigue, P., Koločić, I., Lukić, I.K., Swann, O., van Leeuwen, F.N., Ruhaak, L.R., Houwing-Duistermaat, J., Slagboom, P.E., Beekman, M., de Craen, A.J., Deedler, A.M., Zeng, Q., Wang, W., Hastie, N.D., Gyllensten, U., Wilson, J.F., Wuhrer, M., Wright, A., Rudd, P., Hayward, C., Aulchenko, Y., Campbell, H., Rudan, I. (2013) Loci associated with N-glycosylation of human immunoglobulin G show pleiotropy with autoimmune diseases and haematological cancers. *PLoS Genet*, 9(1): e1003225. doi:10.1371/journal.pgen.1003225 (IF=8,694; rank 11/158 – Genetics and Heredity, median IF = 2,524)
- Thanabalasingham G, Huffman J, Kattla J, Novokmet M, Rudan I, Gloyn A, Hayward C, Adamczyk B, Reynolds RM, Mužinić A, Hassanali N, Pučić M, Bennett A, Essafi A, Polašek O, Mughal SA, Redžić I, Primorac D, Zgaga L, Kolcic I, Hansen T, Gasperikova D, Tjora E, Strachan MWJ, Strachan MWJ, Stanik J, Klimes I, Pedersen O, Njolstad PR, Wild SH, Gyllensten U, Gornik O, Wilson JF, Hastie N, Campbell H, McCarthy MI, Rudd PM, Owen K, **Lauc G** (joint last author), Wright AF (2012) Mutations in HNF1A result in marked alterations of plasma glycan profile, *Diabetes*, published online doi:

10.2337/db12-0880 (IF=8,286; rank 6/122 – Endocrinology & Metabolism, median IF = 2,478)

4. Huffman JE, Knežević A, Vitart V, Kattla J, Adamczyk B, Novokmet M, Igl W, Pučić M, Zgaga L, Johannson A, Redžić I, Gornik O, Zemunik T, Polašek O, Kolčić I, Pehlić M, Koeleman CAM, Campbell S, Wild SH, Hastie ND, Campbell H, Gyllensten U, Wuhrer M, Wilson JF, Hayward C, Rudan I, Rudd PM, Wright AF, **Lauc G** (2011) Polymorphisms in B3GAT1, SLC9A9 and MGAT5 are associated with variation within the human plasma N-glycome of 3533 European adults. *Human Molecular Genetics*, **20**(24):5000-5011. (IF=8,058; rank 13/156 – Genetics and Heredity, median IF = 2,488)
5. Pučić M, Knežević A, Vidič J, Adamczyk B, Novokmet M, Polašek O, Gornik O, Šupraha Goreta S, Wormald M.R., Redžić I, Campbell H, Wright A, Hastie N.D., Wilson, J.F., Rudan I, Wuhrer M, Rudd, P.M., Josić D, **Lauc G**. (2011) High throughput isolation and glycosylation analysis of IgG – variability and heritability of the IgG glycome in three isolated human populations. *Mol Cell Proteomics* **10**(10):M111.010090. (IF=8,354; rank 5/71 – Biochemical Research Methods, median IF = 2,312)
6. Pivac N, Knežević A, Gornik O, Pučić M, Igl W, Peteers H, Crepel A, Steyaert J, Novokmet M, Redžić I, Nikolac M, Novkovic Hercigonja V, Dodig Ćurković K, Ćurković M, Nedić G, Much-Šeler D, Borovečki F, Rudan I, and **Lauc G** (2011) Glycosylation of human plasma proteins in attention-deficit hyperactivity disorder and autism spectrum disorders. *Mol Cell Proteomics*, **10**(1):M110 004200 (IF=8,354; rank 5/71 – Biochemical Research Methods, median IF = 2,312)
7. **Lauc G**, Essafi A, Huffman J, Hayward C, Knežević A, Kattla J, Polašek O, Gornik O, Vitart V, Abrahams JL, Pučić M, Novokmet M, Redžić I, Campbell S, Wild SH, Borovečki F, Wang W, Kolčić I, Zgaga L, Gyllensten U, Wilson JF, Wright AF, Hastie ND, Campbell H, Rudd PM, Rudan I (2010) Genomics meets glycomics - The first GWAS study of human glycome identifies HNF1 α as a master regulator of plasma protein fucosylation, *PLOS Genetics* **6**(12): e1001256. (IF=9,543; rank 10/156 – Genetics and Heredity, median IF = 2,488)
8. Knežević A, Polašek O, Gornik O, Rudan I, Campbell H, Hayward C, Wright A, Kolčić I, O'Donoghue N, Bones J, Rudd PM and **Lauc G** (2009) Variability, Heritability and Environmental Determinants of Human Plasma N-Glycome. *J. Proteome Res.* **8**:694-701. (IF=5,684; rank 6/65 – Biochemical Research Methods, median IF = 2,312)
9. Wagner J, Džijan S, Marjanović D and **Lauc G** (2009) Non-invasive prenatal paternity testing from maternal blood. *Int J Leg Med*, **123**:75-79. (IF=3.030; rank 1/9 – Medicine / Legal, median IF=1,04)
10. Pattaro C, Aulchenko YS, Isaacs A, Vitart V, Hayward C, Franklin CS, Polašek O, Kolčić I, Biloglav Z, Campbell S, Hastie N, **Lauc G**, Meitinger T, Oostra BA, Gyllensten U, Wilson JF, Pichler I, Hicks AA, Campbell H, Wright AF, Rudan I, van Duijn CM, Riegler P, Marroni F and Pramstaller PP (2009) Genome-wide linkage analysis of serum creatinine in three isolated European populations. *Kidney Int.*, **76**:297-306. (IF=6.418, rank 3/57 Urology & Nephrology)

11. Lee, R.T., **Lauc, G.** and Lee, Y.C. (2005) Glycoproteomics: Protein modifications for versatile functions (Meeting report – Mini Review) *EMBO Reports* **6**:1018-1022. (IF=7,66; rank 25/263 Biochemistry & Molecular Biology – median IF=2.55)
12. Gornik I., Marcikić M., Kubat M., Primorac D., and **Lauc G.** (2002) The identification of war victims by reverse paternity is associated with significant risks of false inclusion. *Int. J. Leg. Med.* **116**:255-257. (IF=1.918; rank 1/9 – Medicine / Legal, median IF=0,84)

1.2. Publications in journals belonging to top 25% of journals in the field (Q1 according ISI)

13. Pučić M, Selman MHJ, Hoffmann M, Rudan I, Campbell H, Delder AM, **Lauc G** and Wuhrer M (2013) High-throughput IgG Fc N-glycosylation profiling by mass spectrometry of glycopeptides, *J. Proteome Res* **12**:821-831. (IF=5,113; rank 10/72 – Biochemical Research Methods, median IF = 2,393)
14. Horvat T, Deželjin M, Redžić I, Barišić D, Herak-Bosnar M, **Lauc G**, Zoldoš V (2013) Reversibility of Membrane N-Glycome of HeLa Cells upon Treatment with Epigenetic Inhibitors. *PLoS ONE* **8**(1): e54672. doi:10.1371/journal.pone.0054672. (IF=4,092; rank 12/85 – Biology, median IF = 1,54)
15. Knezevic J, Pavlinic D, Rose WA, Leifer CA, Bendelja K, Gabrilovac J, Parcina M, **Lauc G**, Kubarenko AV, Petricevic B, Vrbanc D, Bulat-Kardum L, Bekeredjian-Ding I, Pavelic J, Dembic Z, Weber AN. (2012) Heterozygous carriage of a dysfunctional TLR9 allele affects CPG-oligonucleotide responses in B cells. *J Biol Chem* **287**(29):24544-53. (IF=5,328; rank 50/266 Biochemistry & Molecular Biology – median IF=2.799)
16. Saldova R, Huffman J, Adamczyk B, Mužinić A, Kattla J, Pučić M, Novokmet M, Abrahams J, Hayward C, Rudan I, Wild S, Wright A, Polasek O, **Lauc G**, Campbell H, Wilson J, Rudd P (2012) Association of medication with the human plasma N-glycome. *J Proteome Res*, **11**(3):1821-1831. (IF=5,113; rank 10/72 – Biochemical Research Methods, median IF = 2,393)
17. Lauc G (2012) The future of glycoscience (editorial). *BBA Gen Subjects*, **1820**(9):1305. (IF=5,000; rank 56/289 – Biochem & Mol Biol, median IF = 2,875)
18. Gornik O, Pavic T and Lauc G (2012) Alternative glycosylation modulates function of IgG and other proteins - implications on evolution and disease. *BBA Gen Subjects*, **1820**(9):1318-1327. (IF=5,000; rank 56/289 – Biochem & Mol Biol, median IF = 2,875)
19. Zoldoš V, Horvat T, Novokmet M, Knežević A, Pučić M, Gornik O, Polašek O, Campbell H, Wright AF, Rudan I, Owen K, McCarthy MI, Herceg Z, and **Lauc G** (2012) Epigenetic silencing of HNF1A by CpG methylation associates with higher branching of N-glycans in human plasma, *Epigenetics*, **7**:164-172. (IF=4,318; rank 74/289 – Biochem & Mol Biol, median IF = 2,799)
20. Lu JP, Knežević A, Wang YX, Rudan I, Campbell H, Zou ZK, Lan J, Lai QX, Wu JJ, He Y, Song MS, Zhang L, **Lauc G**, and Wang W (2011) Screening novel biomarkers for metabolic syndrome by profiling human plasma N-glycans in Chinese Han and Croatian populations *J. Proteome Res*, **10**:4959-69 (IF=5,460; rank 9/71 – Biochemical Research Methods, median IF = 2,312)

21. Knežević A, Bones J, Kračun SK, Gornik O, Rudd PM and **Lauc G** (2011) High Throughput Plasma N-Glycome Profiling using Multiplexed Labelling and UPLC with Fluorescence Detection. *Analyst* **136** (22): 4670-4673. (IF=3,9 rank 8/71 – Chemistry, Analytical, median IF = 1,810)
22. Knežević A, Gornik O, Polašek O, Pučić M, Novokmet M, Redžić I, Rudd P.M., Wright AF, Campbell H, Rudan I and **Lauc G**. (2010) Effects of aging, body mass index, plasma lipid profiles, and smoking on human plasma N-glycans. *Glycobiology* **20**:959-969. (IF=4,45; rank 64/276 Biochemistry & Molecular Biology – median IF=2.62)
23. Pučić M, Pinto S, Novokmet M, Knežević A, Gornik O, Polašek O, Vlahoviček K, Wang W, Rudd PM, Wright AF, Campbell H, Rudan I and **Lauc G**. (2010) Common aberrations from normal human N-glycan plasma profile. *Glycobiology* **20**:970-975. (IF=4,45; rank 64/276 Biochemistry & Molecular Biology – median IF=2.62)
24. Gornik O, Wagner J, Pučić M, Knežević A, Redžić I, **Lauc G** (2009) Stability of N-glycan profiles in human plasma. *Glycobiology* **19**:1547-53 (IF=4,45; rank 64/276 Biochemistry & Molecular Biology – median IF=2.62)
25. Gornik I, Wagner J, Gašparović V, **Lauc G** and Gornik O (2009) Free serum DNA is early predictor of severity in acute pancreatitis. *Clin. Biochem.* **42**:38-43. (IF=2,33; rank 5/25 - Medical Laboratory Technology, median IF=1.62)
26. Gornik O, Gornik I, Gašparović V and **Lauc G** (2008) Change in transferrin sialylation is a potential prognostic marker for severity of acute pancreatitis. *Clin. Biochem.* **41**:504-510. (IF=2,33; rank 5/25 - Medical Laboratory Technology, median IF=1.62)
27. **Lauc G**, Džijan S, Marjanović D, Walsh S, Curran J and Buckleton J (2008) Empirical support for the reliability of DNA interpretation in Croatia. *Forensic Sci. Int. Genet.* **3**:50-53. (IF=2.421; rank 2/12 – Medicine / Legal, median IF=1,433)
28. Gornik O, Royle L, Harvey DJ, Radcliffe CM, Saldova R, Dwek, RA, Rudd P, and **Lauc G**. (2007) Changes of serum glycans during sepsis and acute pancreatitis. *Glycobiology*, **17**:1321-1332. (IF=3,89; rank 73/263 Biochemistry & Molecular Biology – median IF=2.55)
29. Gornik O. and **Lauc G**. (2007) Enzyme linked lectin assay (ELLA) for direct analysis of transferrin sialylation in serum samples. *Clin. Biochem* **40**:718–723. (IF=2,33; rank 5/25 - Medical Laboratory Technology, median IF=1.62)
30. **Lauc G.**, Dumić J., Flögel M., and Lee Y.C. (2003) A new synthetic route for the preparation of glycoprobes. *Anal. Biochem.*, **320**:306-309. (IF = 2,95; rank 9/68 – Chemistry / Analytical, median IF=1.427; rank 19/60 Biochemical Research Methods– median IF=2.13)
31. **Lauc G.**, Lee, R.T., Dumić J., and Lee, Y.C. (2000) Photoaffinity GlycoProbes – a new tool for the identification of lectins. *Glycobiology*, **10**:357-364. (IF=3,67; rank 77/262 Biochemistry & Molecular Biology – median IF=2.476)
32. Gornik I., Maravić G., Dumić J., Flögel M. and **Lauc G**. (1999) Fucosylation of IgG heavy chains is increased in rheumatoid arthritis, *Clin. Biochem.* **32**:605-608. (IF=2,33; rank 5/25 - Medical Laboratory Technology, median IF=1.62)

1.3. Publications in journals belonging to top 50% of journals in the field (Q2 according to ISI)

33. Pučić M, Mužinić A, Novokmet M, Škledar M, Pivac N, **Lauc G** and Gornik O (2012) Changes in plasma and IgG N-glycome during childhood and adolescence. *Glycobiology* **22**:975-982. (IF=3,58; rank 100/289 Biochemistry & Molecular Biology – median IF=2.87)
34. Igl W, Polašek O, Gornik O, Knežević A, Pučić M, Novokmet M, Huffman J, Gnewuch C, Liebisch G, Rudd PM, Campbell H, Wilson JF, Rudan I, Gyllensten U, Schmitz G, **Lauc G** (2011) Glycomics meets lipidomics –Associations of N-glycans with classical lipids, glycerophospholipids, and sphingolipids in three European populations, *Mol Biosyst*, **7**(6): 1852-1862. (IF=3,825; rank 97/286 Biochemistry & Molecular Biology – median IF=2.62)
35. Marjanović D, Konjhodžić R, Butorac SS, Drobnič K, Merkas S, **Lauc G**, Primorac D, Anđelinović S, Milosavljević M, Karan Z, Vidović S, Stojković O, Panić B, Vučetić Dragović A, Kovačević S, Jakovski Z, Asplen C, Primorac D. (2011) Forensic DNA databases in Western Balkan region: retrospectives, perspectives, and initiatives. *Croat. Med. J.* **52**:235-244 (IF=1,455; rank 59/151 – Medicine, general & internal, median IF=1,331).
36. Gornik O, Gornik I, Wagner J, Radić D, **Lauc G** (2011) Evaluation of cell free DNA in plasma and serum as early predictors of severity in acute pancreatitis. *Pancreas*, **40**:787-788. (IF=2,607; rank 22/66 – Gastroenterology & Hepatology, median IF = 2,097)
37. Galov A, Kocijan I, **Lauc G**, Đuras Gomerčić M, Gomerčić T, Arbanasić H, Šatović Z, Šeol B, Vuković S, Gomerčić H (2011) High genetic diversity and possible evidence of a recent bottleneck in Adriatic bottlenose dolphins (*Tursiops truncatus*). *Mammalian Biol*, **76**:339-344. (IF=1.159; rank 55/127 Zoology – median IF=1.011)
38. **Lauc G**, Zoldoš V (2010) Protein glycosylation – an evolutionary crossroad between genes and environment, *Mol Biosystems*, **6**(12):2373-2379. (IF=4,23; rank 71/276 Biochemistry & Molecular Biology – median IF=2.62)
39. **Lauc G**, Rudan I, Campbell H, Rudd PM (2010) Complex genetics of protein glycosylation. *Mol. Biosystems*. **6**:329-335. (IF=4,23; rank 71/276 Biochemistry & Molecular Biology – median IF=2.62)
40. Johansson A, Marroni F, Hayward C, Franklin CS, Kirichenko AV, Jonasson I, Hicks AA, Vitart V, Isaacs A, Axenovich T, Campbell S, Floyd J, Hastie N, Knott S, **Lauc G**, Pichler I, Rotim K, Wild SH, Zorkoltseva IV, Wilson JF, Rudan I, Campbell H, Pattaro C, Pramstaller P, Oostra BA, Wright AF, van Duijn CM, Aulchenko YS, Gyllensten U (2010) Linkage and Genome-wide Association Analysis of Obesity-related Phenotypes: Association of Weight With the MGAT1 Gene. *Obesity*. **18**:803–808. (IF=2.762; rank 16/59 Nutrition & Dietetics – median IF=1,888). Correction published in *Obesity*. **18**:1276.
41. Nuber N., Gornik O., **Lauc G.**, Bauer N., Žuljević A., Papeš D., and Zoldoš, V. (2007) On the identity of *Caulerpa racemosa* (Forsskål) J. Agardh (Caulerpales, Chlorophyta) in the Adriatic Sea. *Eur. J. Phycol.* **42**:113-120. (IF=1,51; rank 55/152 – Plant Sciences, median IF=1,08)
42. **Lauc G.** (2006) Sweet secret of the multicellular life. *BBA* **1760**:525-526. (IF=2,37; rank 35/69 Biophysics – median IF=2.37)

43. **Lauc G.** and Heffer-Lauc M. (2006) Shedding and uptake of gangliosides and glycosylphosphatidylinositol-anchored proteins. *BBA* **1760**:584-602. (IF=2,37; rank 35/69 Biophysics – median IF=2.37)
44. Heffer-Lauc M., **Lauc G.**, Nimrichter L., Fromholt S.E., and Schnaar, R.L. (2005) Membrane redistribution of gangliosides and glycosylphosphatidylinositol-anchored proteins in brain tissue sections under conditions of lipid raft isolation. *BBA Mol. Cell. Biol. L.*, 1686(3):200-8. (IF=3,54; rank 86/263 Biochemistry & Molecular Biology – median IF=2.55)
45. Dumić J., **Lauc G.**, and Flögel M. (2000) Expression of galectin-3 in cells exposed to stress - roles of Jun and NF- κ B. *Cell Physiol. Biochem.* **10**:149-158. (IF=3,56; rank 63/156 Cell Biology – median IF=2.98)
46. **Lauc G.**, Peter-Katalinić J., Dabelić S., and Flögel M. (1999) Purification and MALDI-MS characterization of a stress - associated glycoprotein from sera of professional soldiers. *Biol. Chem.* **380**:443-450 (IF = 3,37; rank 90/262 Biochemistry & Molecular Biology – median IF=2.476)

1.4. Publications in other journals

47. Zoldoš V, Novokmet M, Beceheli I and Lauc G (2012) Genomics and epigenomics of the human glycome. *Glycoconjugate J*, published online, DOI: 10.1007/s10719-012-9397-y, (IF=2,700; rank 148/286 – Biochem & Mol Biol, median IF = 2,799)
48. Bošnjak Z, Džijan S, Pavlinić D, Perić M, Ružman N, Roksandić Križan I, **Lauc G**, Antolović-Požgain A, Burazin J and Vuković D (2012) Distribution of *Chlamydia trachomatis* Serotypes in Clinical Urogenital Samples from North-Eastern Croatia. *Curr Microbiol* 64(6):552-60. (IF = 1.51)
49. Šupraha-Goreta S, Dabelić S, Pavlinić D, **Lauc G** and Dumić J (2012) Frequency determination of α -1,3 glucosyltransferase p.Y131H and p.F304S polymorphisms in Croatian population revealed five novel SNPs in hALG6 gene. *Genet Test Mol Biomarkers* 16(1):50-3.
50. Polašek O, Leutenegger A-L, Gornik O, Zgaga L, Kolčić I, McQuillan R, Wilson JF, Hayward C, Wright AF, **Lauc G**, Campbell H, Rudan I (2011) Does inbreeding affect N-glycosylation of human plasma proteins? *Mol Genet Genomics* **285**(5):427-32. (IF=2,579; rank 74/146 – Genetics and Heredity, median IF = 2,566)
51. Gornik O, Gornik I, Zagorec Kolednjak I, **Lauc G** (2011) Change of transferrin sialylation differs between mild sepsis and severe sepsis and septic shock, *Internal Med*, **50**:861-869. (IF=1,037 ; rank 62/100 – Medicine, general & internal, median IF=1,331)
52. **Lauc G**, Zoldoš V (2011) The role of epigenetic regulation of membrane glycoconjugates in the attenuation of viral pandemics. *Med. Hypoth.* 76:214-216. (IF=1,389; rank 57/82 – Medicine, research & experimental, median IF=2,175)
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