

Curriculum vitae

• PERSONAL INFORMATION

Family name, First name: Markotić Anita

Identification number of the scientist: 190095

URL for web site (link to CROSBİ profile): <http://bib.irb.hr/lista-radova?autor=190095>

• EDUCATION

2001 PhD Biomedicine and Health, University of Zagreb, HR

1997 Master Biochemistry, University of Zagreb, HR

• CURRENT POSITION(S)

2016–present: Full professor at Department of Medical Chemistry and Biochemistry, University of Split School of Medicine (USSM), HR

• PREVIOUS POSITIONS

2005-2010 Assistant professor, USSM

2002-2005 Senior assistant, USSM

1998-2002 Assistant, USSM

1991-1997 Expert collaborator in education at University of Zagreb School of Medicine – Study in Split, Department of Chemistry, Biochemistry and Clinical Chemistry

• FELLOWSHIPS AND AWARDS

2013 Award for research results realized by project "Pathobiochemistry of glycosphingolipid antigens" MZOŠ HR No. 216-2160133-0066 (PI Anita Markotić) presented as poster: Božić J et al. Comparison of muscular ganglioside GM3 expression in a rat model of diabetes type 1 and 2. 5th Croatian diabetology congress with international participation.

2006 Award of Croatian Society of Medical Biochemists for project "Glycosphingolipid expression in regenerated rat liver" MZOŠ No. 0216013 (PI Anita Markotić) novice

2001 Macromolecular processing and Signalling in the Extracellular Matrix. Deutsche Forschungs-Gemeinschaft, Sonderforschungsbereich 549. Visiting scientist 1 month at Cell culture institute, University of Bielefeld, Germany.

2000 Glycosphingolipid phenotype of knockout mice. Framework of bilateral scientific cooperation between Germany and Croatia, Bundesministerium für Bildung und Forschung project KRO-002-99. 1 month at University of Bielefeld.

1996/97 Pathomechanisms of cell interactions. Deutsche Forschungs-Gemeinschaft, Sonderforschungsbereich 223. 4 months at University of Bielefeld.

1983 University of Split Rector's award for outstanding students

• SUPERVISION OF DOCTORAL AND POSTDOCTORAL STUDENTS

2007 PhD Tina Tičinović Kurir

2009 PhD Vedrana Čikeš Čulić

• TEACHING ACTIVITIES

2013-present Organism in equilibrium ((PhD study Research in education, University of Split Faculty of Natural Sciences and Mathematics) leader

Glycobiology of hematopoiesis (University of Split Department of Health studies)

Medical Chemistry and Biochemistry (Medical study in English, University of Split School of Medicine, USSM)

2008-present Biochemistry (Study of dental Medicine)

2009–present Research methods in glycomedicine (doctoral study Tumor Biology) leader

2007-present	Medical chemistry (Study of dental medicine) leader
2007-2009	Glycoantigens in health and disease (elective course at USSM)
leader	
1998-present	Medical Chemistry and Biochemistry (USSM)
1991-1997	Medical Chemistry and Biochemistry (University of Zagreb School of Medicine – Study in Split)

• **INVITED LECTURES TO INTERNATIONAL CONFERENCES**

1. Cell growth or apoptosis: decision by GM3 ganglioside in partial hepatectomy model. Congress of the Croatian Society of Biochem& Mol.Biol. with International Participation 2008, Osijek. Book of Abstracts: **L (lecture)** 19, p42.
2. Ganglioside expression in tissues of mice deficient in β_2 -microglobulin. Annual Meeting of Croatian Biochemists with International Participation 1998, Osijek. Book of Abstracts: **L (lecture)** 14, p45.

• **ORGANISATION OF SCIENTIFIC MEETINGS**

1. 2016 HDBMB2016 Member of the Organising Committee Congress on the occasion of the 40th Anniversary, Split 1, June. 101 participants
2. 2002 International lecture course for Croatian Medical Society: Glycoproteins and glycolipids: modulators of cell function in the health and disease. Lecturers were research collaborators Johannes Müthing and Jasna Peter-Katalinić from University of Münster, Germany (sponsored by project no. TP-01/0216-04, PI Anita Markotić). Split, Croatia. 73 participants.
3. 2001 Member of the local board of European molecular biology organization lecture course (EMBO) "Cellular signaling in development and disease". Split, Croatia. 126 participants.

• **INSTITUTIONAL RESPONSIBILITIES**

2011-present	member of the Publishing Commission, USSM. Croatia
2009-2011	member of the Disciplinary Proceedings Commission, USSM
2008-2009	member of the Library Council, School of Medicine in Split
2005-2008	head of the Department of Medical Chemistry and Biochemistry USSM
2004-2009	president of the Publishing Commission, School of Medicine in Split
2004-2005	member of the Housing issues Commission, University of Split, Croatia
2003-2004	representative of senior assistants in Faculty Council USSM

• **MEMBERSHIPS (e.g. scientific committees or association, evaluation committees)**

2007-2011	Society for Experimental Biology and Medicine (USA)
2005	one of four members of the Coordinating group for the harmonization of the teaching MedChem&Biochemistry in core curriculum of University Medical Schools in Croatia
1994-present	Croatian Society for Biochemistry and Molecular Biology
1992-present	Croatian Chemical Society

Reviewer for journals: Clinical&Experimental **Reviewer for scientific journals:** Immunology, Croatian Medical Journal, Immunology, Journal of Applied Biomedicine, Journal of Chromatography B - Analytical Technologies in the Biomedical and Life Sciences, Neuroscience Letters, Undersea and Hyperbaric Medicine.

• **MAJOR SCIENTIFIC COLLABORATIONS**

1. Johannes Müthing. Scientific field of glycosphingolipid research. Four (2001-2004) of five publications (Markotić et al, 1999,2002,2004,2005, Marušić et al, 2004) are realised during three scientific visits to Institute of Cell Culture Technology, University of Bielefeld, Germany:

- 2001 Macromolecular processing and Signalling in the Extracellular Matrix. Deutsche Forschungs-Gemeinschaft, Sonderforschungsbereich 549. Visiting scientist 1 month at Cell culture institute, University of Bielefeld, Germany.
- 2000 Glycosphingolipid phenotype of knockout mice. Framework of bilateral scientific cooperation between Germany and Croatia, Bundesministerium für Bildung und Forschung project KRO-002-99. 1 month at University of Bielefeld.
- 1996/97 Pathomechanisms of cell interactions. Deutsche Forschungs-Gemeinschaft, Sonderforschungsbereich 223. 4 months at University of Bielefeld.

2. Jasna Peter-Katalinić, Glycosphingolipids (Markotić et al, Bichem Biophys Res Commun 2005) Institute for Medical Physics and Biophysics, Univ. of Münster, Germany. (visit to University of Münster sponsored by project no. TP-01/0216-04, PI Anita Markotić).

3. Milena Vuica-Ross and Ashley Ross, Johns Hopkins University, Baltimor, USA: recent collaboration on prostate cancer resulted with common peer-reviewed conference proceedings and manuscript in print.

4. David Barker and Johannes Reynisson, University of Auckland, New Zealand: recent collaboration on phospholipase C inhibitors, conference abstracts in CC journals and manuscript in print.

EDITOR-IN-CHIEF OF REVIEW BOOK:

Markotić A, Glavaš-Obrovac Lj, Varljen J, Žanić-Grubišić T. Biochemistry and Immunology Intersections. Research Signpost, Kerala, 2008.

PUBLICATIONS IN JOURNALS CITED IN CURRENT CONTENTS THAT ARE NOT LISTED IN GROUP PUBLICATIONS:

1. **Markotić A**, Lümen R, Marušić A, Jonjić S, Müthing J. Ganglioside expression in tissues of mice lacking the tumor necrosis factor receptor 1. Carbohydrate Res 1999; 321: 75-87.
2. **Markotić A**, Marušić A, Tomac J, Müthing J. Ganglioside expression in tissues of mice lacking b2-microglobulin. Clin Exp Immunol 2002; 128: 27-35.
3. Marušić A, **Markotić A**, Kovačić N, Müthing J. Expression of glycosphingolipids in lymph nodes of mice lacking TNF receptor 1: biochemical and flow cytometry analysis. Carbohydrate Res 2004; 339: 77-86.
4. **Markotić A**, Marušić A. Expression of neutral glycosphingolipids in the brain and spleen of mice lacking TNF receptor 1. Immunol Invest 2004; Vol 33: 335-49. Zemunik T, **Markotić A**, Marušić A. Expression of neutral glycosphingolipids in cytokine-stimulated human endothelial cells. Biochemistry (Moscow) 2004; 69: 513-9.
5. Kurir TT, **Markotić A**, Katalinić V, Božanić D, Čikeš V, Zemunik T, Modun D, Rincic J, Boraska V, Bota B, Salamunic I, Radic S. Effect of hyperbaric oxygenation on the regeneration of the liver after partial hepatectomy in rats. Braz J Med Biol Res 2004; 37:1231-7.
6. **Markotić A**, Čikeš Čulić V, Tičinović Kurir T, Meisen I, Büntemeyer H, Boraska V, Zemunik T, Petri N, Mesarić M, Peter-Katalinić J, Müthing J. Oxygenation alters ganglioside expression in rat liver following partial hepatectomy. Bichem Biophys Res Commun 2005; 330: 131-41.

7. **Markotić A**, Marušić A, Müthing J. Expression of neutral glycosphingolipids in the brain, lymphoid organs and lungs of mice lacking β_2 -microglobulin. *Neuroimmunomodulation* 2005; 12: 310-3.
8. Markić J, Krželj V, **Markotić A**, Marušić E, Stričević L, Zanchi J, Bošnjak N, Sapunar A. High incidence of glucose-6-phosphate dehydrogenase deficiency in Croatian island isolate: example from Vis island, Croatia. *Cro Med J* 2006; 47: 556-70.
9. Boraska V, Terzić J, Škrabić V, Čačev T, Bučević-Popović V, Peruzović M, **Markotić A**, Zemunik T. NeuroD1 gene and interleukin-18 gene polymorphisms in type 1 diabetes in Dalmatian population of Southern Croatia. *Cro Med J* 2006; 47: 571-8.
10. Torlak V, Zemunik T, Modun D, Pešutić-Pisac V, **Markotić A**, Pavela-Vrančić M, Staničić A. 131 I-induced changes in rat thyroid gland function. *Braz J Med Biol Res* 2007; 40:1087-94.
11. Tomasović M, Rešić B, Ivelja N, Kuzmanić-Šamija R, Rešić J, Gabrić Pandurić D, Božić J, **Markotić A**. Glycosphingolipid expression in cerebrospinal fluid of infants with neurological abnormalities: report of three case. *Coll Antropol* 2008; 32 Suppl 1: 189-193.
12. Tičinović-Kurir T, Čikeš-Čulić V, Zemunik T, Grković I, Terzić J, Padovan M, Petri NM, **Markotić A**. Immunohistochemical analysis of hepatic ganglioside distribution following a partial hepatectomy and exposure to different hyperbaric oxygen treatments. *Acta Histochem* 2008;110: 66-75.
13. Glavaš D, **Markotić A**, Valić Z, Kovačić N, Palada I, Martinić R, Brešković T, Baković D, Brubakk AO, Dujčić Ž. Expression of endothelial selectin ligands on human leukocytes following dive. *Exp Biol Med* 2008; 233: 1181-8.
14. Boraska V, Torlak V, Škrabić V, Kačić Z, Jakšić J, Stipančić G, Uroić Špehar A, **Markotić A**, Zemunik T. Glycosyltransferase B4GALNT1 and type 1 diabetes in Croatian population. *Clin Biochem* 2009; 42: 819-22.
15. Rešić J, Čikeš Čulić V, Zemunik T, **Markotić A**. Hepatic and Pancreatic Glycosphingolipid Phenotypes of the Neurological Different Rat Strains *Coll Antropol* 2011; 35: 259-63