

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Surname(s) / First name(s)	Čikeš Čulić, Vedrana
Address(es)	Šoltanska 2, 21000 Split, Croatia
Telephone(s)	+385 21 557 939
Fax(es)	+385 21 557 625
E-mail(s), Web address(s)	vedrana.cikes.culic@mefst.hr
Nationality(-ies)	Croatian
Date of birth	08 th of August, 1976
Identification number from Records of Scientific Workers	272311

WORK EXPERIENCE

• Dates (from – to)	29.8.2012. – 30.4.2013.
Name and address of employer	Johns Hopkins University, Baltimore, USA
Type of business or sector	Postdoctoral fellow in molecular biology
Occupation or position held	Postdoctoral fellow in molecular biology
Main activities and responsibilities	Postdoctoral fellow in molecular biology
• Dates (from – to)	31.3.2010. until today
Name and address of employer	University of Split, School of Medicine, Department of Medical Chemistry and Biochemistry
Type of business or sector	Assistant professor
Occupation or position held	Assistant professor
Main activities and responsibilities	Teaching and scientific research in the field of biochemistry
• Dates (from – to)	1.8.2009. – 30.3.2010.
Name and address of employer	University of Split, School of Medicine, Department of Medical Chemistry and Biochemistry
Type of business or sector	Senior assistant
Occupation or position held	Senior assistant
Main activities and responsibilities	Teaching and scientific research in the field of biochemistry
• Dates (from – to)	06.02.2009. - 31.7.2009.
Name and address of employer	University of Split, School of Medicine, Department of Medical Chemistry and Biochemistry
Type of business or sector	Assistant
Occupation or position held	Assistant
Main activities and responsibilities	Teaching and scientific research in the field of biochemistry
• Dates (from – to)	01.09.2004 - 05.02.2009.
Name and address of employer	University of Split, School of Medicine, Department of Medical Biochemistry
Type of business or sector	Scientific novice – assistant
Occupation or position held	Scientific novice – assistant
Main activities and responsibilities	Teaching and scientific research in the field of biochemistry
• Dates (from – to)	01.01.2003 – 31.08.2004.
Name and address of employer	Chrono d.o.o. Split
Type of business or sector	Marketing propagandist
Occupation or position held	Expert Cooperator for development of multimedia in laboratory
Main activities and responsibilities	Development of multimedial projects
• Dates (from – to)	01.09.2002 – 31.08.2004.
Name and address of employer	University of Split, School of Medicine, Department of Biochemistry
Type of business or sector	Extern younger assistant

Occupation or position held	Extern younger assistant
Main activities and responsibilities	Teaching in the field of biochemistry
• Dates (from – to)	2002 – 2003.
Name and address of employer	University of Zagreb, School of Medicine – Split Branch, Department of Biochemistry
Type of business or sector	Cooperator volunteer on technological project of dr.sc. Anita Markotić
Occupation or position held	Cooperator volunteer
Main activities and responsibilities	Scientific research in the field of biochemistry
• Dates (from – to)	2000 – 2002.
Name and address of employer	University of Split, School of Medicine, Department of Molecular Biology
Type of business or sector	Cooperator volunteer
Occupation or position held	Cooperator volunteer
Main activities and responsibilities	Scientific research in the field of genetics
• Dates (from – to)	28.3.2000 – 28.6.2001.
Name and address of employer	Clinical hospital Split, Department of Medical Laboratory Diagnostics
Type of business or sector	Trainee
Occupation or position held	Trainee
Main activities and responsibilities	Medical laboratory diagnostics

EDUCATION

Date	2002 – 2009 (24 months of break)
Place of education	Zagreb
Name and type of organization providing education	Faculty of Pharmacy and Medical Biochemistry, University of Zagreb, Postgraduate study of Medical Biochemistry
Title or qualification awarded	PhD in Biomedical Science, branch Pharmacy, field Medical Biochemistry
Date	1994 – 1999.
Place of education	Zagreb
Name and type of organization providing education	Faculty of Pharmacy and Medical Biochemistry, University of Zagreb
Title or qualification awarded	B.Sc. in Medical Biochemistry

TRAINING

Year	September 2009.
Place of training	Antwerpen, Belgium
Name and type of organization providing training	Antwerpen University Hospital, Laboratory of Cellular and Molecular Cardiology
Principal subjects/Occupational skills covered	EPC (endothelial progenitor cells) analysis, CAC (circulating angiogenic cells) analysis in cell culture and basic EMP (endothelial microparticles) analysis
Year	2000/2001
Place of training	Split
Name and type of organization providing training	Clinical hospital Split, Department of Medical Laboratory Diagnostics
Principal subjects/Occupational skills covered	Medical laboratory diagnostics

AWARDS

Year	1995 – 1999.
Award	Split City Award for the best students
Year	2006.
Award	Croatian Society of Medical Biochemistry Award „Krešo Lipovac” for the best scientific novice for year 2005
Year	29.8.2012. – 30.4.2013.
Award	Johns Hopkins University, Baltimore, USA; Postdoctoral fellow in molecular biology

**MEMBERSHIP AND ACTIVITY
IN SCIENTIFIC SOCIETIES**

- Croatian Society of Medical Biochemistry, from 1999.
- Croatian Chamber of Medical Biochemistry, from 1999.
- Croatian Society of Biochemistry and Molecular Biology (CSMBM), from 2006; CSBMB is the member of FEBS (Federation European of Biochemical Societies)

**PERSONAL SKILLS AND
COMPETENCIES**

Mother tongue(s) Croatian

Other language(s)

Language	English	Italian	French
Speaking	Yes	Yes	basic
Writing	Yes	Yes	basic
Understanding (listening and reading)	Yes	Yes	basic

**SOCIAL SKILLS AND
COMPETENCIES**

Work with graduate medical students as lecturer in seminar and small groups

**ORGANIZATIONAL SKILLS AND
COMPETENCIES**

Member of the local board and secretary of European molecular biology organization lecture course (EMBO) "Cellular signalling in development and disease", Split, September 2001.

**TECHNICAL SKILLS AND
COMPETENCIES**

A number of laboratory techniques in the field of biomedicine: ganglioside and neutral glycosphingolipid isolation, high performance thin layer chromatography combined with immunostaining, immunohistochemical methods, flow-cytometry analysis, DNA isolation, purifying and electrophoresis, PCR, RFLP, SSCP, Southern blotting, flow cytometry, cell culture

**ARTISTIC SKILLS AND
COMPETENCIES**

Piano player, photo amateur

OTHER SKILLS AND COMPETENCIES

Diver with two stars

DRIVING LICENSE(S)

Driving license (category A and B)

CC publications:

1. Kurir T.T, Markotić A, Katalinić V, Božanić D, **Čikeš V**, Zemunik T, Modun D, Rinčić J, Boraska V, Bota B, Salamunić I, Radić S. Hyperbaric oxygenation: effects on the regeneration of the liver after partial hepatectomy in rats. *Braz J Med Biol Res* (2004): 37:1231-1237.
2. **Čikeš V**, Abaza I, Krželj V, Terzić IM, Tafra R, Trlaja A, Marušić E, Terzić J. Prevalence of factor V Leiden and G6PD 1311 silent mutations in Dalmatian population. *Arch Med Res* (2004): 35: 546-548.
3. 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. *Biochem Biophys Res Commun* (2005): 330: 131-141.
4. T. Tičinović-Kurir, **V. Čikeš-Čulić**, T. Zemunik, I. Grković, J. Terzić, M. Padovan, N.M. Petri, A. Markotić. Immunohistochemical analysis of hepatic ganglioside distribution following a partial hepatectomy and exposure to different hyperbaric oxygen treatments. *Acta histochemica* (2008): 110: 66-75.
5. Đevenica D, **Čikeš Čulić V**, Markotić A, Vuica A. Biochemical, pathological and oncological relevance of Gb3Cer receptor. *Med Oncol* (2011): 28(1): 675-684.
6. Rešić J, **Čikeš Čulić V**, Zemunik T, Markotić A. Hepatic and Pancreatic Glycosphingolipid Phenotypes of the Neurological Different Rat Strains. *Coll antropol* (2011): 35: 259-263.
7. Režić-Mužinić N, **Čikeš-Čulić V**, Božić J, Tičinović-Kurir T, Salamunić I, Markotić A. Hypercalcemia induces a proinflammatory phenotype in rat leukocytes and endothelial cells. *J Physiol Biochem*. 2013 Jun;69(2):199-205.
8. Novak A, Režić Mužinić N, **Čikeš Čulić V**, Božić J, Tičinović Kurir T, Ferhatović L, Puljak L, Markotić A. Renal distribution of ganglioside GM3 in rat models of types 1 and 2 diabetes. *J Physiol Biochem* (2013):69(4):727-735.
9. Markić J, Jerončić A, Polančec D, Bošnjak N, Markotić A, Meštrović J, **Čikeš Čulić V**. CD15s is a potential biomarker of serious bacterial infection in infants admitted to hospital. *Eur J Pediatr* (2013): 172: 1363-1369.
10. **Čikes Culic V**, Van Craenenbroeck E, Rezić Muzinic N, Ljubkovic M, Marinovic J, Conraads V, Dujic Z. Effects of SCUBA diving on vascular repair mechanisms. *Undersea Hyperb Med* (2014):41(2):97-104.

Other publications::

1. T Tičinović Kurir, T Zemunik, M Petričević, N Petri, S Radić, I Dujmov, **V Čikeš**, B Bota, E Marušić, M Saraga-Babić, M Tomasović, A Markotić. Effects of hyperbaric oxygenation after partial hepatectomy in young rats. *Period. Biologorum* (2003):105:2:153-156.
2. **Čikeš Čulić V**, Tičinović Kurir T, Radić S, Zemunik T, Mesarić M, Markotić A. Exposure to hyperbaric pressure alters ganglioside expression in rat liver following partial hepatectomy. *Period. Biologorum* (2005): 107:2:267-269.
3. Boraska V, Škrabić V, **Čikeš Čulić V**, Bečić K, Kapitanović S, Zemunik T. Association of TNF promoter polymorphisms with type 1 diabetes in the South Croatian population. *Biological Research* (2008): 41:2:157-163.
4. **V. Čikeš Čulić**, R. Martinić, A. Markotić, M. Ljubković, T. Brešković, J. Marinović, Ž. Dujčić. Expression of Endothelial Selection Ligands on Leukocytes Following Repeated Dives in SCUBA Divers. *Periodicum biologorum* (2014):116:39-45.
5. Đevenica, Danka; Markotić, Anita; Režić-Mužinić, Nikolina; Jelaska, Igor; Zemunik, Tatijana; Delić, Hrvoje; **Čikeš Čulić, Vedrana**. Hyperbaric environment upregulates CD15s expression on leukocytes, downregulates CD77 expression on renal cells and upregulates CD34 expression on pulmonary and cardiac cells in rat. *Iranian Journal of Basic Medical Sciences* (2016):19:8:821-828.
6. Mastelić A, **Čikeš-Čulić V**, Režić-Mužinić N, Vuica-Ross M, Barker D, Leung EY, Reynisson J, Markotić A. Glycophenotype of breast and prostate cancer stem cells treated with thieno[2,3-b]pyridine anticancer compound. *Drug design, development and therapy. In print*

Congress abstracts in CC journals:

1. **V. Čikeš Čulić**, T. Tičinović Kurir, S. Radić, T. Zemunik, M. Mesarić and A. Markotić. Exposure to hyperbaric pressure alters ganglioside expression in rat liver following partial hepatectomy. Abstracts of the 31st FEBS Congress "Molecules in Health and Disease"; in: *The FEBS Journal* 273 (2006) (S1); PP-691/Perham, Richard (ed.). Oxford: Blackwell Publishing Ltd, 2006. p. 264.
2. **Čikes Culic V**, Glavas D, Markotić A, Valić Z, Kovacic N, Palada I, Martinic R, Breskovic T, Bakovic D, Brubakk AO, Dujic Z. Expression of endothelial selectin ligands on human leukocytes following dive. *FEBS J* 2009; 276: 193
3. **V. Čikeš Čulić**, A. Markotić, M. Ljubković, T. Brešković, J. Marinović Ljubković and Ž. Dujčić. Expression of endothelial selectin ligands on leukocytes following repeated dives in SCUBA divers. Abstracts of the 35th FEBS Congress "Molecules of Life" ; in: *The FEBS Journal* 277 (2010) (S1); Perham, Richard (ed.). Oxford: Blackwell Publishing Ltd, 2010. p. 45.
4. **V. Čikes Culic**, E. Van Craenenbroeck, N. Rezić, M. Ljubkovic, T. Breskovic, V. Conraads, Z. Dujic. Effect of successive dives on circulating cells with vasculogenic potential. *EuroPRevent 2011*, 14 Apr 2011 - 16 Apr 2011, Geneva - Switzerland
5. **V. Čikes Culic**, A.E. Ross, M. Vuica-Ross. Development of ribonuclease H2A inhibitors as anticancer agents. Abstracts of the 38th FEBS Congress ; in: *The FEBS Journal* 280 (2013) (S1); Wiley-Blackwell
6. Božić, Joško; Novak, Anela; Tičinović Kurir, Tina; Režić-Mužinić, Nikolina; **Čikeš-Čulić, Vedrana**; Puljak, Livia; Ferhatović, Lejla; Markotić, Anita; Valić, Zoran. Analysis of renal ganglioside GM3 distribution in rat models of type 1 and type 2 diabetes // *The FASEB journal* / Weissmann, Gerald (ur.). Bethesda : Federation of American Societies for Experimental Biology, 2013. 702-702
7. Mastelić, Angela; **Čikeš-Čulić, Vedrana**; Režić-Mužinić, Nikolina, Vuica-Ross, Milena; Ross, Ashley; Barker, David; Reynisson, Jóhannes; Markotić, Anita. Glycophenotype of breast cancer stem cells treated with glucosylceramide synthase and phospholipase C - γ 2 inhibitors. // *Glycoconjugate Journal* 32(Suppl. 5). 229-229
8. Režić-Mužinić, Nikolina; Mastelić, Angela; Markotić, Anita; **Čikeš Čulić, Vedrana**; Vuica-Ross, Milena; Ross, Ashley; Barker, David; Reynisson, Jóhannes. The effect of a phospholipase C gamma inhibitor on the proliferation and phenotype of Du145 prostate cancer cells // *FEBS J* 281(Suppl.1). 507-507
9. Režić Mužinić, Nikolina; **Čikeš Čulić, Vedrana**; Puljak, Livia; Ferhatović, Lejla; Tičinović Kurir, Tina; Markotić, Anita. Renal

Congress abstracts in other journals:

1. **Čikeš Čulić, V.**, Rešić, J., Tomasović, M., Zemunik, T., Markotić, A. Glycosphingolipid expression in neural tissues of three rat strains. *Integrative Zoology, Abstracts from XX International Congress of Zoology / Mosiniak Serge (ed.)*. Paris : University Pierre et Marie Curie, 2008. 42
2. Drmić, **V. Čikeš**, J. Sertić, D. Sutlović, Š. Šimun, S. Drmić, B. Blaženka. Odnos između Y kromosoma haplogrupa i haplotipova i neplodnost kod muškaraca u Hrvatskoj. The third European-American school in forensic genetics and Mayo clinic course in advanced, molecular and cellular medicine, abstract book. Zagreb, 2003.
3. A. Markotić, **V. Čikeš Čulić**, T. Tičinović Kurir, S. Radić, T. Zemunik and M. Mesarić. Exposure to hyperbaric pressure alters ganglioside expression in rat liver following partial hepatectomy. *Periodicum Biologorum*, vol 106, Supp 1. Zagreb, 2004. 119. Fourth Croatian Congress of Pharmacology, Split, September 2004.
4. V. Boraska, K. Bečić, V. Škrabić, M. Peruzović, **V. Čikeš Čulić**, S. Kapitanović, T. Zemunik. Interleukin-18 and TNF-alpha promoter polymorphisms and susceptibility to type 1 diabetes in the Dalmatian population. *European Human Genetics Conference 2006 : abstracts / European Society of Human Genetics (ed.)*. Amsterdam : Nature publishing group, 2006. 332-332
5. T. Tičinović Kurir, **V. Čikeš Čulić**, T. Zemunik, I. Grković, N. M. Petri, A. Markotić. Immunohistochemistry of hepatic gangliosides following a partial hepatectomy and exposure to different hyperbaric oxygen treatments. *EMBO/HHMI Central European Scientists Meeting, 2006. : abstract book*. Zagreb, 2006. 50-50
6. **Čikeš Čulić, Vedrana**; Tičinović Kurir, Tina; Zemunik, Tatijana; Grković, Ivica; Terzić, Janoš; Markotić, Anita. Cell growth or apoptosis: decision by GM3 ganglioside in partial hepatectomy model // *Congress of the Croatian Society of Biochemistry and Molecular Biology with international participation : HDBMB2008 : Book of Abstracts / Strelec, Ivica ; Glavaš-Obrovac, Ljubica (ed.)*. Osijek : Croatian Society of Biochemistry and Molecular Biology, 2008. 42-42
7. **Čikeš Čulić, V.**, Rešić, J., Tomasović, M., Zemunik, T., Markotić, A. Glycosphingolipid expression in neural tissues of three rat strains. *Integrative Zoology, Abstracts from XX International Congress of Zoology / Mosiniak Serge (ed.)*. Paris : University Pierre et Marie Curie, 2008. 42
8. **Čikeš Čulić, Vedrana**; Rešić, Jasminka; Tomasović, Maja; Zemunik, Tatijana; Markotić, Anita. Glycosphingolipid expression in neural tissues of three rat strains // *Congress of the Croatian Society of Biochemistry and Molecular Biology with international participation : HDBMB 2008 : book of abstracts / Strelec, Ivica ; Glavaš-Obrovac, Ljubica (ed.)*. Osijek : Croatian Society of Biochemistry and Molecular Biology, 2008. 78-78
9. Rešić, Jasminka; **Čikeš-Čulić, Vedrana**; Zemunik, Tatijana; Markotić, Anita. Hepatic and Pancreatic Glycosphingolipid Phenotypes of the Neurological Different Rat Strains / *The 3rd Croatian Congress of Neuroscience / Kostović, Ivica (ed.)*. 2009. 58-59
10. **Čikeš Čulić, Vedrana**; Martinić, Roko; Markotić, Anita; Ljubković, Marko; Brešković, Toni; Marinović Ljubković, Jasna; Dujčić, Željko. Expression of endothelial selectin ligands on leukocytes following repeated dives in scuba divers. *HDBMB2010: Book of Abstracts*. Opatija : Croatian Society of Biochemistry and Molecular Biology, 15-18.9. 2010.
11. Đevenica, Danko; **Čikeš Čulić, Vedrana**; Režić, Nikolina; Zemunik, Tatijana; Dujčić-Bilušić, Sandra; Markotić, Anita. Hyperbaric environment downregulates renal CD77 expression in rat. *HDBMB2010: Book of Abstracts*. Opatija : Croatian Society of Biochemistry and Molecular Biology, 15-18.9. 2010.
12. Režić, Nikolina; **Čikeš Čulić, Vedrana**; Tičinović Kurir, Tina; Salamunić, Ilza; Božić, Joško; Markotić, Anita. Hypercalcemia and aortic CD77 expression in rat. *HDBMB2010: Book of Abstracts*. Opatija : Croatian Society of Biochemistry and Molecular Biology, 15-18.9. 2010.
13. Xian, RR, **Cikes-Culic, V.**, Vujevic, M., Ross, AE., Vuica-Ross, M. Distribution of mutagenic RNA:DNA hybrids in precancerous lesions and solid malignancies. *Laboratory Investigation* 94(1):468A-468A, Abstract no: 1920
14. Radan, Mila; **Čikeš-Čulić, Vedrana**; Ljubenkov, Ivica; Politeo, Olivera; Burčul, Franko. Antiproliferative activity of some Dalmatian plants from Lamiaceae family on two carcinoma cell lines and their phenolic contents. // *Congress of the Croatian Society of Biochemistry and Molecular Biology on the Occasion of the 40th Anniversary, HDBMB2016 / Maja Katalinić and Zrinka Kovarik (ur.)*. Zagreb: Croatian Society of Biochemistry and Molecular Biology, 2016. 98-98
15. Odžak, Renata; Skočibušić, Mirjana; Puizina, Jasna; **Čikeš Čulić, Vedrana**; Primožič, Ines. Evaluation of inhibitory effects of racemic and enantiomerically pure N-benzyl-3-amidoquinolidinim salts against extended spectrum β -lactamase-producing pathogens // *17th Tetrahedron Symposium Challenges in Biological, Bioorganic, Organic & Medicinal Chemistry, Sitges, Španjolska 2016. Elsevier 2016*.

ANNEXES

Lectures:

- Continual training course "Advanced discoveries in lactation and nursing", University of Split, School of Medicine, every year since 2007., invited lecturer with lecture "Biochemistry of human milk"
- Vedrana Čikeš Čulić "Pathobiochemistry of glycoantigens", invited lecture at the Congress of the Croatian Society of Biochemistry and Molecular Biology on the occasion of the 40th anniversary, Split, June 2016.

Teaching activities:

- since 2002: graduate teaching in Chemistry and Biochemistry, School of Medicine University of Split
- since 2005: postgraduate teaching of Immunochemical methods in glycomedicine, School of Medicine University of Split
- since 2007: graduate teaching in Chemistry and Biochemistry, School of Dental Medicine University of Split
- since 2010: graduate teaching in Analytical chemistry and Biochemistry, University Department of Health Studies University of Split
- since 2012: graduate teaching in Chemistry and Biochemistry, Medical Studies in English, School of Medicine

University of Split; leading from 2014.

- since 2012: leading of obligatory courses Biochemistry II and Glycobiology of hematopoiesis, University Department of Health Studies University of Split
- since 2013: leading of obligatory course Applied biochemistry, Faculty of Pharmacy University of Split
- since 2015: head of the Department of Medical Chemistry and Biochemistry


Mentorship of PhD students:

1. Joško Markić: "The utility of leukocyte CD15s, CD11b and CD64 antigen determination in diagnosis of serious bacterial infection in febrile infants", doctoral dissertation defended at School of Medicine University of Split, 20.6.2013.
2. Nikolina Režić Mužinić: "Hypercalcemia induces a proinflammatory phenotype in rat leukocytes and endothelial cells", doctoral dissertation defended at School of Medicine University of Split, 17.7.2015.
3. Danka Đevenica, PhD student on Postdoctoral study Biology of neoplasms, School of Medicine University of Split
4. Sandra Dujjić-Bilušić, PhD student on Postdoctoral study TRIBE – Translation research in biomedicine, School of Medicine University of Split

Reviewer of scientific journals listed in Current Contents:

- Clinical and Experimental Immunology
- International Journal of Sports Medicine

SIGNATURE

A handwritten signature in blue ink on a light blue background. The signature reads "Vedrana Čičić Čulić".