

## CURRICULUM VITAE

### PERSONAL DATA

**NAME:** Dušan

**LAST NAME:** Veličković

**DATE OF BIRTH:** 23.12.1985

**PLACE OF BIRTH:** Belgrade, Serbia

**E-MAIL:** [dusanv@chem.bg.ac.rs](mailto:dusanv@chem.bg.ac.rs); [limabubg@gmail.com](mailto:limabubg@gmail.com); [dvelickovic@inra.nantes.fr](mailto:dvelickovic@inra.nantes.fr)

### EDUCATION AND TRAINING

**2012.** Attended the Formation: Preparation of tissue for microscopic analysis, INRA, Nantes.

**2011.** PhD at the Faculty of Chemistry (Biochemistry department) University of Belgrade.

**2011.** Attended the Seminar: The structure of Scientific Articles, at Faculty of Chemistry, University of Belgrade.

**2009.** Attended the Course on Mass Spectrometry in Biotechnology and Medicine, Center for Advanced Academic Studies, Dubrovnik, Croatia.

**2008.** Graduated at the Faculty of Chemistry (Biochemistry department) University of Belgrade with average grade 9.47/10.

**2004.** Graduated at the high school „Zemunska gimnazija“.

### PROFESIONAL CAREER

**2012.** Promoted to Scientific Associate at the Faculty of Chemistry, University of Belgrade.

**2012.** Post-doc position at INRA institute in Nantes, France. Topic : MALDI imaging.

**2011.** Defended his doctoral dissertation entitled: “Study of transglucosylation reaction catalyzed by maltase from *Saccharomyces cerevisiae*” (“Proučavanje transglukozilacionih reakcija katalizovanih maltazom iz *Saccharomyces cerevisiae*”), as the youngest PhD at Biochemistry department University of Belgrade.

**2009-2011** Hired as the assistant for the course “Chemistry of the Natural Products” (“Hemija Prirodnih Proizvoda”) at the Faculty of Chemistry (Biochemistry department) University of Belgrade.

**2010.** Employed as Associate researcher at the Faculty of Chemistry, University of Belgrade.

**2010.** Elected to the position of Associate researcher at the Innovation Center of the Faculty of Chemistry, University of Belgrade.

**2010.** Employed as Graduate researcher at the Innovation Center of the Faculty of Chemistry, University of Belgrade.

**2009.** Employed as Graduate researcher at the Faculty of Chemistry, University of Belgrade.

**2008.** Enrolled doctoral studies at the Faculty of Chemistry (Biochemistry department) University of Belgrade.

**2008.** Defended his graduate thesis entitled: “Optimization of production and investigation of modulation of *Pseudomonas aeruginosa* san-ai lipase activity” (“Optimizacija produkcije i ispitivanje modulacije aktivnosti lipaze iz *Pseudomonas aeruginosa* san-ai”).

## **AWARDS AND HONORS**

**2012.** Scholarship from AgreenSkills (18 months) for post-doctoral project.

**2009.** Holder of a special recognition of the Serbian Chemical Society for outstanding achievement in the academic studies.

**2008.** Scholarship Fund for Young Talents of the Ministry of Youth and Sport of the Republic of Serbia.

**2007.** Scholarship from the Ministry of Education and Sports of the Republic of Serbia.

## **PERSONAL SKILLS AND ABILITIES**

**NATIVE LEANGUE:** Serbian

**OTHER LEANGUAGES:** English

- Reading: very good
- Writing: very good

- Conversation: very good

#### COMPUTER SKILLS:

- Microsoft Windows XP, 7, 8
- Microsoft Office: Word, Excel, Power Point
- Programs: Origin, Encora
- Internet

#### DETAILED LIST OF PUBLICATION

##### BOOK CHAPTERS:

- Nenad Milosavić, Aleksandra Dimitrijević, **Dušan Veličković**, Dejan Bezbradica, Zorica Knežević-Jugović, Ratko Jankov, „Application of alginates in cell and enzyme immobilization“ in the book „Alginates: Production, Types and Applications“ Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600, Hauppauge, NY11788.

##### ORIGINAL RESEARCH PAPER:

- Marija Pavlović, Aleksandra Dimitrijević, Dejan Bezbradica, Nenad Milosavić, Marija Gavrović-Jankulović, Dejan Šegan, **Dušan Veličković**. Dual effect of benzyl alcohol on  $\alpha$ -glucosidase activity: efficient substrate for high yield transglucosylation and non-competitive inhibitor of its hydrolytic activity. *Carbohydrate Research (IF 2.044)*, (2013), In Press.
- Marija Stojanović, **Dušan Veličković**, Aleksandra Dimitrijević, Nenad Milosavić, Zorica Knežević-Jugović, Dejan Bezbradica. Lipase-catalyzed synthesis of ascorbyl oleate in acetone: Optimization of reaction conditions and lipase reusability. *Journal of Oleo Science (IF 1.242)* 62, (2013), 591-603.
- Dejan Bezbradica, Marija Stojanović, **Dušan Veličković**, Aleksandra Dimitrijević, Milica Carević, Mladen Mihailović, Nenad Milosavić. Kinetic model of lipase-catalyzed conversion of ascorbic acid and oleic acid to liposoluble vitamin C ester. *Biochemical Engineering Journal (IF 2.579)*, 71, (2013), 89-96.

- Jovana Trbojević, Aleksandra Dimitrijević, **Dušan Veličković**, Marija Gavrović-Jankulović, Nenad Milosavić. Isolation of *Candida rugosa* lipase isoforms, *Chemical Industry (IF 0.463)*, (2013) DOI:10.2298/HEMIND120828113T.
- Nevena Prlainović, Dejan Bezbradica, Zorica Knežević-Jugović, **Dušan Veličković**, Dušan Mijin. Enzymatic synthesis of vitamin B6 precursor. *Journal of the Serbian Chemical Society (IF 0.912)*, (2013) doi: 10.2298/JSC130322050P.
- Marija Pavlović, Aleksandra Dimitrijević, Jovana Trbojević, Nenad Milosavić, Marija Gavrović-Jankulović, Dejan Bezbradica, **Dušan Veličković**, A Study of transglucosylation kinetic in an enzymatic synthesis of benzyl alcohol glucoside by  $\alpha$ -glucosidase from *S.cerevisiae*. *Russian Journal of Physical Chemistry A (IF 0.386)*, (2013) In Press.
- Aleksandra Dimitrijević, **Dušan Veličković**, Dejan Bezbradica, Nenad Milosavić. Specificity of maltase to maltose in three different direction of reaction: Hydrolytic, vanillyl alcohol glucoside and vanillyl alcohol isomaltoside syntheses. *Biotechnology Progress (IF 1.853)*, 28, (2012), 1450-1456.
- Nenad Milosavić, Jelena Bogdanović Pristov, **Dušan Veličković**, Aleksandra Dimitrijević, Aleksandar Kalauzi, Ksenija Radotić. Study of the covalently immobilized amyloglucosidase on macroporous polymer by mathematical modeling of the pH optima. *Journal of Chemical Technology and Biotechnology (IF 2.504)*, 87, (2012), 1450-1457.
- **Dušan Veličković**, Aleksandra Dimitrijević, Filip Bihelović, Dejan Bezbradica, Zorica Knežević-Jugović, Nenad Milosavić. Novel glycoside of vanillyl alcohol, 4-hydroxy-3-methoxybenzyl- $\alpha$ -D-glucopyranoside: study of enzymatic synthesis, in vitro digestion and antioxidant activity. *Bioprocess and Biosystems Engineering (IF 1.869)*. 35, (2012), 1107-1115.
- Aleksandra Dimitrijević, **Dušan Veličković**, Filip Bihelović, Dejan Bezbradica, Ratko Jankov, Nenad Milosavić. One-step, inexpensive and high yield strategy for *Candida antarctica* lipase A isolation using hydroxyapatite. *Bioresource Technology (IF 4.750)*. 107, (2012), 358-362.
- Aleksandra Dimitrijević, **Dušan Veličković**, Ratko. Jankov, Nenad Milosavić, Electrophoretic and zymographic techniques for production monitoring of two lipase

forms from *Candida antarctica* DSM 70725, *Chemical Industry (IF 0.463)*, 66 (2012) 201-206.

- **Dušan Veličković**, Aleksandra Dimitrijević, Filip Bihelović, Dejan Bezbradica, Ratko Jankov, Nenad Milosavić. A highly efficient diastereoselective synthesis of  $\alpha$ -isosalicin by maltase from *Saccharomyces cerevisiae*. *Process Biochemistry (IF 2.414)*, 46, (2011) 1698-1702
- Aleksandra Dimitrijević, **Dušan Veličković**, Milena Rikalović, Nataša Avramović, Nenad Milosavić, Ratko Jankov, Ivanka Karadžić. Simultaneous production of exopolysaccharide and lipase from extremophylic *Pseudomonas aeruginosa* san-ai strain: A novel approach for lipase immobilization and purification. *Carbohydrate Polymers (IF 3.479)*, 83, (2011), 1397-1401.
- **Dušan Veličković**, , Aleksandra Dimitrijević, , Filip Bihelović, Ratko Jankov, Nenad Milosavić. Study of the kinetic parameters for synthesis and hydrolysis of pharmacologically active salicin isomer catalyzed by baker's yeast maltase. *Russian Journal of Physical Chemistry A (IF 0.459)*, 85 (2011) 73-77.
- Aleksandra Dimitrijević, **Dušan Veličković**, Filip Bihelović, Dejan Bezbradica, Ratko Jankov, Nenad Milosavić, Production of lipase from *Pseudozyma aphidis* and determination of the activity and stability of the crude lipase preparation in polar organic solvents. *Journal of the Serbian Chemical Society (IF 0.912)*, 76 (2011) 1081-1092

#### **INTERNATIONAL MEETINGS:**

- **Veličković, Dušan**; Dimitrijević, Aleksandra; Bihelović, Filip; Jankov, Ratko; Milosavić, Nenad. Influence of hydroxybenzyl alcohol isomers on kinetic parameters for transglycosylation reaction catalysed by alpha glucosidase. 10th International Conference on Fundamental and Applied Aspects of Physical Chemistry. Belgrade, 21-24 September, 2010. 152-154.
- Marija Pavlović, Aleksandra Dimitrijević, Jovana Trbojević, Nenad Milosavić, Marija Gavrović-Jankulović, Dejan Bezbradica, **Dušan Veličković**. Inhibition of transglucosylation synthesis of benzyl alcohol glucoside by glucosyl acceptor. 11th

International Conference on Fundamental and Applied Aspects of Physical Chemistry. Belgrade, 24-28 September, 2012. C-11-P. 185-187.

- Dimitrijević, Aleksandra; **Veličković, Dušan**; Rikalović, Milena; Avramović, Nataša; Milosavić, Nenad; Knežević, Zorica; Karadžić, Ivanka. Production and isolation of an extracellular lipase from alkalophilic *Pseudomonas aeruginosa* san-ai, COST 928 Meeting in Belgrade 2-3 April 2009. P- 6, 23.
- Dimitrijević, Aleksandra; **Veličković, Dušan**; Rikalović, Milena; Avramović, Nataša; Jankov, Ratko; Karadžić, Ivanka, Milosavić, Nenad. Encapsulation and purification of lipase from *P. aeruginosa* san-ai by an autogenous exopolysaccharide. 3rd Summer Course on Mass Spectrometry in Biotechnology and Medicine, Center for Advanced Academic Studies, Dubrovnik, Croatia, July 5-11, 2009. P-2, 64.
- **Veličković, Dušan**; Dimitrijević, Aleksandra; Rikalović, Milena; Avramović, Nataša; Jankov, Ratko; Karadžić, Ivanka, Milosavić, Nenad. Dynamic of production of extracellular lipase, rhamnolipides and exopolysaccharide by *P. aeruginosa* san-ai. 3rd Summer Course on Mass Spectrometry in Biotechnology and Medicine, Center for Advanced Academic Studies, Dubrovnik, Croatia, July 5-11, 2009. P-17, 84.
- Dimitrijević, Aleksandra; **Veličković, Dušan**; Rikalović, Milena; Avramović, Nataša; Jankov, Ratko; Karadžić, Ivanka; Milosavić, Nenad. Immobilization of lipase from *Pseudomonas aeruginosa* san-ai by an autogenous exopolysaccharide. COST 928 Meeting in Krakow, Krakow, Poland, September 23-25. 2009, Book of Abstracts P-36, 58.
- Dimitrijević, Aleksandra; **Veličković, Dušan**; Jankov, Ratko; Milosavić, Nenad. Antioxidant activity of hydroxybenzyl alcohol (HBAs) glycosides. 1st FCUB ERA Workshop, Food Safety and Health Effects of Food, Belgrade, January 31-February 1, 2011. P-14, 41.
- Stojadinovic, Marija; **Veličković, Dušan**; Dimitrijević, Aleksandra; Milosavić, Nenad; Knežević-Jugović, Zorica; Bezbradica, Dejan. The optimization of enzymatic synthesis

of ascorbyl oleate in organic solvents. 1st FCUB ERA Workshop, Food Safety and Health Effects of Food, Belgrade, January 31-February 1, 2011. P-1, 28.

- **Dušan Veličković**, Aleksandra Dimitrijević, Filip Bihelović, Dejan Bezbradica, Ratko Jankov, Nenad Milosavić. Optimization of reaction parameters for enzymatic synthesis of new glucoside of vanillyl alcohol and evaluation of its antioxidant properties, 2nd International ISEKI\_Food Conference, Bridging Training and Research for Industry and the Wider Community, Milan, Italy, August 31-September 2, 2011, P-210.
- Aleksandra Dimitrijević, **Dušan Veličković**, Dejan Bezbradica, Filip Bihelović, Ratko Jankov, Nenad Milosavić. Production of an extracellular lipase from *Pseudozyma aphidis* and its activity and stability in organic solvents. IV International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2011), Torremolinos, Spain, 14-16 September, 2011, P-608.
- **Dušan Veličković**, Aleksandra Dimitrijević, Dejan Bezbradica, Filip Bihelović, Ratko Jankov, Nenad Milosavić. Synthesis of p-hydroxybenzyl-alcohol glucoside catalyzed by  $\alpha$  glucosidase from *Saccharomyces cerevisiae* and determination of its antioxidative properties. IV International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2011), Torremolinos, Spain, 14-16 September, 2011, P-616.
- Aleksandra Dimitrijević, **Dušan Veličković**, Dejan Bezbradica, Ratko Jankov, Nenad Milosavić. Single step isolation of lipase A from *Candida antarctica* DSM 70725", 2nd FCUB ERA Workshop, Food Chemistry and Biotechnology, Belgrade, Serbia, 18-19 October, 2011, P-18.
- Dimitrijević Aleksandra, **Veličković Dušan**, Bezbradica Dejan, Milosavić Nenad. Alginate: smart carbohydrate polymer. 26th International Carbohydrate Symposium, Madrid, Spain, 22-27 July, 2012 P-514.
- **Veličković Dušan**, David Ropartz, Sylvie Durand, Luc Saulnier, Fabienne Gullion, Helene Rogniaux. MALDI imaging of cell wall polysaccharides in wheat grain

endosperm. 10th Carbohydrate Bioengineering Meeting, Prague, Czech Republic, 21-24 April 2013, P-165, 233.

#### NATIONAL MEETINGS:

- Dimitrijević, Aleksandra; **Veličković, Dušan**; Rikalović, Milena; Avramović, Nataša, Milosavić, Nenad; Karadžić, Ivanka. Produkcija i prečišćavanje ekstracelularne lipaze dobijene pomoću *Pseudomonas aeruginosa* san-ai, 47. Savetovanje Srpskog hemijskog društva, Beograd, 21. Mart 2009. ISBN 978-86-7132-031-2. BT03, 172-175.
- **Veličković, Dušan**; Dimitrijević, Aleksandra; Bihelović, Filip; Jankov, Ratko; Milosavić, Nenad. Investigation the effect of concentration orto hydroxybenzyl alcohol on kinetic and yield enzymatic synthesis of  $\alpha$  isosalicin: determination of optimal orto hydroxybenzyl alcohol concentration. Nacionalna konferencija sa međunarodnim učešćem, Biotehnologija za održivi razvoj, Beograd, 24. Novembar 2010. ISBN 978-86-7401-269-7. Str 45-48.
- Stojadinović, Marija; **Veličković, Dušan**; Dimitrijević, Aleksandra; Milosavić, Nenad; Knežević-Jugović, Zorica; Bezbradica, Dejan. Sinteza askorbil-oleata katalizovana imobilisanom lipazom iz *C. antarctica*. Nacionalna konferencija sa međunarodnim učešćem, Biotehnologija za održivi razvoj, Beograd, 24. Novembar 2010. 21-24.
- Dimitrijević, Aleksandra; **Veličković, Dušan**; Jankov, Ratko; Milosavić, Nenad. Fiziološka aktivnost  $\alpha$ -izosalicina sintetisanog  $\alpha$ -glukozidazom iz pekarskog kvasca. Biotehnologija za održivi razvoj. Tehnološko-Metalurški fakultet, Univerzitet u Beogradu, 24-26. novembar 2010. Zbornik radova str 65-68. ISBN 978-86-7401-269-7, 65-68.
- **Veličković, Dušan**; Dimitrijević, Aleksandra; Rikalović, Milena; Avramović, Nataša, Milosavić, Nenad, Jankov, Ratko; Karadžić, Ivanka. Produkcija ekstracelularne lipaze soja *P. aeruginosa* san-ai na podlogama sa različitim izvorima ugljenika. 47. Savetovanje Srpskog hemijskog društva, Beograd, 21. Mart 2009, ISBN 978-86-7132-031-2, BT09, 105

- **Veličković, Dušan**; Dimitrijević, Aleksandra; Bihelović, Filip; Bezbradica, Dejan; Jankov, Ratko; Milosavić, Nenad. Optimizacija i karakterizacija enzimske sinteze  $\alpha$ -izosalicina i ispitivanje njegovih antioksidativnih osobina, 49. Savetovanje Srpskog hemijskog društva, Kragujevac, 13. Maj 2011. BT06-P, 103.
- **Veličković, Dušan**; Dimitrijević, Aleksandra; Bihelović, Filip; Jankov, Ratko; Milosavić, Nenad. Utvrđivanje optimalnih uslova za sintezu  $\alpha$  izosalicina  $\alpha$  glukozidazom iz pekarskog kvasca. 48. Savetovanje Srpskog hemijskog društva, Novi Sad, 17 април 2010. ISBN 978-86-7132-042-9, BT 10 U/O, 120.
- Trbojević, Jovana ; Dimitrijević, Aleksandra; **Veličković, Dušan** ; Gavrović-Jankulović, Marija ; Milosavić, Nenad . Adsorpcija lipaze iz *Candida antarctica* na hidroksiapatitu . I konferencija mladih hemičara Srbije , Beograd, 19 oktobar 2012. BH P15.