




INFORMAȚII PERSONALE **Violeta-Florina Scurtu**

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Sexul Feminin | Data nașterii 14 iunie 1985 | Naționalitatea română | Stare civilă casătorită

EXPERIENȚA PROFESIONALĂ

Octombrie 2013 - prezent **asistent cercetător (PN-II-ID-PCE-2012-4-0488, director proiect Conf.dr. Radu Silaghi-Dumitrescu)**

Iulie 2008 – Noiembrie 2012 **asistent cercetător (PNII PCCE140)**

Universitatea Babeș-Bolyai
1, Mihail Kogalniceanu, 400084 Cluj-Napoca (Romania)

Purificarea, modificarea și caracterizarea unor proteine în vederea stabilirii unui protocol de obținere a unui substitut de sânge

Tipul sau sectorul de activitate Biochimie, Bioanorganică

EDUCAȚIE ȘI FORMARE

2009 – 2012 **Doctor în chimie** ISCED 6

Universitatea "Babeș-Bolyai", Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca, România

Spectroscopie de masă, RMN în chimia organică, Spectroscopie UV-vis, IR / Raman și RES, Metodologia cercetării, Biotransformări enzimactice în sinteza organică, TIC

2008 – 2009 **Master în "Biotransformări celulare"** ISCED 6

Universitatea Babeș-Bolyai, Facultatea de Biologie și Geologie

Semnalizări celulare, Enzimologie avansată, Tehnici ADN recombinat, Tehnici avansate de microscopie optică și electronică

2004 – 2008 **Diplomă de licență în chimie** ISCED 5

Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică

Chimie Anorganică, Chimie Organică, Chimie-Fizică, Biochimie

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	B1	B1	B2	B1	B2
franceză	C1	C2	B2	B2	B2

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
[Cadru european comun de referință pentru limbi străine](#)

Competențe de comunicare Relații bune și foarte bune cu colegii

Competențe dobândite la locul de muncă

- Manipularea proteinelor (electroforeza, gel-filtrare, cromatografie prin schimbători de anioni);
- CINETICĂ ENZIMATICĂ;
- Tehnici stop-flow aplicate în studiul reacțiilor rapide;
- Studiul radicalilor liberi și al metalelor tranzitionale proteice prin RES;

Competențe informatice Microsoft office (Word™, Excel™ and PowerPoint™);
ChemDraw, ClustalX2, ViewerLite, Origin, GraphPad Prism)

Alte competențe spirit de echipă, originalitate, seriozitate, inițiativă, modestie, muzică (chitara, cor)

Permis de conducere B

ANEXE

LISTĂ LUCRĂRI:

15. Pop, Veronica-Anita; [Scurtu Violeta-Florina](#); Mahut, Sonia Diana; Silaghi-Dumitrescu, Radu. "The antioxidant –modulated effect of nitrite on the oxy forms of hemoglobin polymers", *Romanian Journal of Biochemistry*, submitted
14. [Scurtu, Florina](#); Zolog, Oana; Iacob, Bianca; Silaghi-Dumitrecu, Radu. "Hemoglobin-albumin crosslinking with disuccinimidyl suberate (DSS) and/or glutaraldehyde for blood substitutes", *Artificial Cells, Blood Substitutes, and Immobilization Biotechnology*, **2014**, 42(1), 13-17
13. [Scurtu, Violeta-Florina](#); Mot, Augustin; Silaghi-Dumitrescu, Radu. " Protein-based blood substitutes: recent attempts at controlling pro-oxidant reactivity with and beyond hemoglobin", *Pharmaceuticals*, **2013**, 6(7), 867-880
12. Bischin, Cristina; [Deac, Florina](#); Silaghi-Dumitrescu, Radu; Worrall, Jonathan; Rajagopal, Badri; Cooper, Chris. "Ascorbate peroxidase activity of cytochrome c", *Free Radical Research*, **2011**, 45(4), 439-444
11. Ficher-Fodor, Eva; Mot, Augustin; [Deac, Florina](#); Árkosi, Mariann; Silaghi-Dumitrescu, Radu. "Toward hemerythrin-based blood substitutes: comparative performance to hemoglobin on human leukocytes and umbilical vein endothelial cells", *Journal of Biosciences*, **2011**, 36(2), 215-221
10. Zolog, Oana; Mot, Augustin-Catalin; [Deac, Florina](#); Fischer-Fodor, Eva; Silaghi-Dumitrecu, Radu. "A New Polyethyleneglycol-Derivatized Hemoglobin Derivative with Decreased Oxygen Affinity and Limited Toxicity", *The Protein Journal*, **2011**, 30(1), 27-31

9. Iacob, Bianca; Deac, Florina; Cioloboc, Daniela; Damian, Grigore; Silaghi-Dumitrescu, Radu. "Hemoglobin-albumin crosslinked copolymers: reduced prooxidant reactivity", *Artificial Cells, Blood Substitutes, and Immobilization Biotechnology*, **2011**, 39(5), 293-297

8. Deac, Violeta-Florina; Iacob, Bianca; Eva, Fischer-Fodor; Damian, Grigore; Silaghi-Dumitrescu, Radu. "Derivatization of hemoglobin with periodate-generated reticulation agents: evaluation of oxidative reactivity for potential blood substitutes", *Journal of Biochemistry*, **2011**, 149(1), 75-82

7. Deac, Florina; Cotolan, Nicoleta; Kis, Zoltan; Silaghi-Dumitrescu, Radu. "A dithionite-induced six-coordinated species at the heme in deoxy hemoglobin", Metal Elements in Environment, Medicine and Biology Tome X, , Gabriela Garban, Radu Silaghi-Dumitrescu, Ludovic Sayti, Eds., **2010**, "Eurobit" Publishing House, Timisoara, Romania, pp 121-126

6. Deac, Violeta-Florina; Bolfa, Ana-Maria; Magdas, Cristian; Sevestre, Bogdan; Turc, Silvia; Silaghi-Dumitrescu, Radu. "Hemoglobin-based blood substitutes: wich haemoglobin to use?", *Romanian Journal of Biochemistry*, **2010**, 47(2), 135-141

5. Deac, Violeta-Florina; Todea, Anamaria; Silaghi-Dumitrescu, Radu. "Glutaraldehyde derivatization of hemoglobin: a potential blood substitute", Metal Elements in Environment, Medicine and Biology Tome IX, Radu Silaghi-Dumitrescu, Gabriela Garban, Eds., **2009**, Cluj University Press, Cluj-Napoca, Romania, pp 165-173.

4. Arkosi, Mariann-Kinga; Deac, Florina; Silaghi-Dumitrescu, Radu. "Hemoglobin peroxidase activity: interaction with hydroquinone and anthracene", Metal Elements in Environment, Medicine and Biology Tome IX, Radu Silaghi-Dumitrescu, Gabriela Garban, Eds., **2009**, Cluj University Press, Cluj-Napoca, Romania, pp 99-110

3. Silaghi-Dumitrescu Radu; Bischin, Cristina; Deac, Florina; Kis, Zoltan; Mot, Augustin; Makarov, Sergei V. "Unusual metal oxidation states in metalloproteins and related complexes: from degenerate orbitals to apoptosis", Metal Elements in Environment, Medicine and Biology Tome IX, Radu Silaghi-Dumitrescu, Gabriela Garban, Eds., **2009**, Cluj University Press, Cluj-Napoca, Romania, pp 174-182.

2. Deac, Violeta-Florina; Todea, Anamaria; Bolfa, Ana Maria; Podea, Paula; Petrar, Petronela; Silaghi-Dumitrescu, Radu. "Ascorbate binding to globins", *Romanian Journal of Biochemistry*, **2009**, 46(2), 115–121

1. Silaghi-Dumitrescu, Radu; Deac, Florina. "The redox reactivity of globins: the chicken and egg paradox, Metal Elements in Environment", Medicine and Biology, Corneliu Davidescu, Gabriela Garban, Iosif Gergen, Simona Dragan, Nicolae Vaszilcsin, Adina Avacovici, Eds., **2008**, Eurobit Publishing House, Timisoara, Romania, pp 271-276

POSTERE:

18. "Hemoglobin-based copolymers with potential as blood substitutes: increased molecular weight, reduced prooxidant reactivity", Florina Scurtu, Oana Zolog, Bianca Iacob, Radu Silaghi-Dumitrescu, ISMEC, Iunie **2012**, Lisabona, Portugalia

17. "Characterization of hemoglobin albumin copolymers with potential application as blood substitutes", Florina Deac, Oana Zolog, Cristina Bischin, Veronica Pop, Eva Fischer-Fodor, Simon Astilean, Grigore Damian, Radu Silaghi-Dumitrescu, Advanced Spectroscopies on Biomedical and Nanostructured System, Septembrie **2011**, Cluj-Napoca

16. "Strategies for combatting autooxidation in blood, relevant for blood substitute preparation and chemotherapy", Vicentiu Taciuc, Bianca Iacob, Florina Deac, Augustin Mot, Denisa Hathazi, Radu Silaghi-Dumitrescu,

Metal Elements in Environment, Medicine and Biology Tome X, Timisoara, November **2010**

15. "Derivatization of hemoglobin with periodate-generated reticulation agent: evaluation of oxidative reactivity for potential blood substitutes",

Bianca Iacob, Florina Deac, Eva Fischer-Fodor, Grigore Damian, Vasile Miclaus, Radu Silaghi-Dumitrescu,

31th National Conference, October **2010**, Ramnicu-Valcea, Romania

14. "Cisplatin modulated free radical-generating reactivity in hemoglobin and in cytochrome c",

Cristina Bischin, Vicentiu Taciuc, Violeta-Florina Deac, Grigore Damian, Silvia Turc, Cristian Magdas, Eva Fischer-Fodor, Radu Silaghi-Dumitrescu,

31th National Conference, October **2010**, Ramnicu-Valcea, Romania

13. "A new protocol for derivatization of hemoglobin with polyethylene glycol: evaluation for potential blood substitutes",

Florina Deac, Oana Zolog, Augustin Mot, Alina Roman, Eva Fischer-Fodor, Radu Silaghi-Dumitrescu

31th National Conference, October **2010**, Ramnicu-Valcea, Romania

12. "Strategies for combatting autooxidation in blood, relevant for blood substitute preparation and chemotherapy",

Bianca Iacob, Florina Deac, Augustin Mot, Vicentiu Taciuc, Denisa Hathazi, Radu Silaghi-Dumitrescu,

ICOSECS7, September **2010**, Bucharest, Romania

11. "Ascorbate peroxidase activity with cytochrome c",

Cristina Bischin, Violeta-Florina Deac, Radu Silaghi-Dumitrescu,

ICOSECS7, September **2010**, Bucharest, Romania

10. "Derivatization of hemoglobin with periodate-generated reticulation agent: evaluation of oxidative reactivity for potential blood substitutes",

Florina Deac, Bianca Iacob, Eva Fischer-Fodor, Grigore Damian, Vasile Miclaus, Radu Silaghi-Dumitrescu,

ICOSECS7, September **2010**, Bucharest, Romania

9. "Derivatization of hemoglobin with periodate-generated reticulation agent: evaluation of oxidative reactivity for potential blood substitutes",

Florina Deac, Bianca Iacob, Eva Fischer-Fodor, Grigore Damian, Vasile Miclaus, Radu Silaghi-Dumitrescu,

3rdEuCheMS Chemistry Congresss, August-September **2010**, Nurnberg, Germania

8. "Hemoglobin peroxidase activity interaction with hydroquinone and anthracene"

Mariann-Kinga, Arkosi, Florina Deac, Radu Silaghi-Dumitrescu,

7th International Conference "Students for students", April **2010**, Cluj-Napoca, Romania

7."Hemoglobin peroxidase activity: interaction with hydroquinone and anthracene",

Mariann-Kinga Arkosi, Florina Deac, Radu Silaghi-Dumitrescu,

Metal Elements in Environment, Medicine and Biology Tome IX, Cluj-Napoca, Octombrie **2009**

6. "Hemoglobin is an ascorbate peroxidase with a remarkably high affinity for ascorbate"

Anamaria Todea, Deac Florina, Paula Podea, Radu Silaghi-Dumitrescu

11th Central and Eastern European NMR Symposium, Cluj-Napoca, Romania, October **2009**

5. "Glutaraldehyde derivatization of Hemoglobin: a potential blood substitute",

Florina Deac, Anamaria Todea, Radu Silaghi-Dumitrescu

Metal Elements in Environment, Medicine and Biology Tome IX, Cluj-Napoca, Octombrie **2009**

4. "Hemoglobin is an ascorbate-binding protein with remarkably high affinity for ascorbate"

Anamaria Todea, Florina Deac, Paula Podea, Radu Silaghi-Dumitrescu,

SOE Workshop "From Molecules to Functionalised Materials" – Cluj-Napoca,

October **2009**

3. "Hemoglobin is an ascorbate-binding protein with remarkably high affinity for ascorbate"

Anamaria Todea, Florina Deac, Paula Podea, Radu Silaghi-Dumitrescu

Conferința internațională ediția 6-a "Studentji pentru studentji", April **2009**, Cluj-Napoca, Romania

2. "Hemoglobin is an ascorbate peroxidase with remarkably high affinity for ascorbate"

Florina Deac, Radu Silaghi-Dumitrescu

Conferința internațională ediția 6-a "Studentji pentru studentji", April **2009**, Cluj-Napoca, Romania

1. "Hemoglobin is an ascorbate peroxidase with remarkably high affinity for ascorbate"

Florina Deac, Radu Silaghi-Dumitrescu

A XXX-a Conferința Națională de Chimie, Octombrie **2008**, Călimanești-Căciulata, Valcea, Romania