Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Camelia Sorina Stancu**
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E-mail	camelia.stancu@icbp.ro (office)
Nationality	Romanian
Date of birth	October 25th, 1969
Gender	Female

Desired employment / Occupational field

Institute of Cellular Biology and Pathology „Nicolae Simionescu" of the Romanian Academy, Bucharest, Romania
Cellular and molecular biology (scientific research, education)

Work experience

Principal Investigator I, Lipidomics Department
Chair of the ICBP-NS Ethics Commission (from 2017)

Dates	**2017 - present**
Occupation or position held	Principal Investigator I, Institute of Cellular Biology and Pathology "Nicolae Simionescu"
Name and address of employer	Institute of Cellular Biology and Pathology "Nicolae Simionescu" 8, B.P. Hasdeu Street, Sector 5, Bucuresti 050568, Romania [www.icbp.ro]
Dates	**2006 - 2017**
Occupation or position held	Principal Investigator II, Institute of Cellular Biology and Pathology "Nicolae Simionescu"
Name and address of employer	Institute of Cellular Biology and Pathology "Nicolae Simionescu" 8, B.P. Hasdeu Street, Sector 5, Bucuresti 050568, Romania
Dates	**2000 – 2006**
Occupation or position held	Principal Investigator III, Institute of Cellular Biology and Pathology "Nicolae Simionescu"
Name and address of employer	Institute of Cellular Biology and Pathology "Nicolae Simionescu" 8, B.P. Hasdeu Street, Sector 5, Bucuresti 050568, Romania
Dates	**1996 – 2000**
Occupation or position held	Scientific researcher, Institute of Cellular Biology and Pathology "Nicolae Simionescu"
Name and address of employer	Institute of Cellular Biology and Pathology "Nicolae Simionescu" 8, B.P. Hasdeu Street, Sector 5, Bucuresti 050568, Romania
Dates	**1993 - 1996**
Occupation or position held	Research Assistant, Institute of Cellular Biology and Pathology "Nicolae Simionescu"
Name and address of employer	Institute of Cellular Biology and Pathology "Nicolae Simionescu" 8, B.P. Hasdeu Street, Sector 5, Bucuresti 050568, Romania

Education and training

Dates	**May 29th – June 9th, 2017**
Title of qualification awarded	FELASA Certificate for care and use of laboratory animals (ID 051/15_12_2017)
Principal subjects/occupational skills covered	Carry out procedures on animal (Function A), designing procedures and projects (Function B), taking care of animals (Function C), killing animals (Function D)
Name and type of organization providing education and training	University of Crete, Department of Biology, Heraklion, Crete, Greece
Dates	**August 26th – 30th, 2013**
Title of qualification awarded	Certificate of attendance to COST Action BM0904 (HDLnet) Second Training School
Principal subjects/occupational skills covered	HDL: Physiology, regulation and therapeutic potential
Name and type of organization providing education and training	EU RTD Framework Programme COST Action BM 0904 Institute of Cellular Biology and Pathology "Nicolae Simionescu" of the Romanian Academy, 8 B.P. Hasdeu Street, Sector 5, Bucharest, Romania
Dates	**December 2nd, 2011 - February 29th, 2013**
Title of qualification awarded	Postdoctoral fellow in the frame of the EU Structural Funds - Operational Sectorial Program – Development of Human Resources (OSP-DHR, *rom.* POS-DRU)
Principal subjects/occupational skills covered	Study of the mechanisms by which probiotic bacteria exert beneficial effects in hyperlipidemia, using the experimental animal model of hyperlipidemic hamster.
Name and type of organization providing education and training	National Institute for Economic Research "C.C. Kiritescu", Bucharest, Romania 13, 13th September Ave., West Building, Bucharest
Dates	**15th October – 15th November, 2012**
Title of qualification awarded	Postdoc fellow OSP-DHR (*rom.* POS-DRU) Training Stage
Principal subjects/occupational skills covered	Training stage as *Visiting fellow* to gather knowledge in immunodetection of molecules specific for lipid metabolism, in tissues or cultured cells, by confocal microscopy
Name and type of organization providing education and training	Department of Biochemistry and Molecular Cell Biology from University Medical Clinic Hamburg-Eppendorf, Germany (Prof. Jorg Heeren Laboratory)
Dates	**August 20th – 26th, 2006**
Title of qualification awarded	Certificate of attendance to the first edition of European Atherosclerosis Society Summer School, Hamburg, Germany
Principal subjects/occupational skills covered	Basic research and clinical aspects of atherosclerosis Lipid and lipoprotein metabolism, Genetic analysis of coronary heart disease (CHD), Animal models of atherosclerosis
Name and type of organization providing education and training	European Atherosclerosis Society (EAS)
Dates	**November 1997 - October 2005**
Title of qualification awarded	Ph.D. in Natural Sciences, Biology
Principal subjects/occupational skills covered	Study of the interactions of modified lipoproteins with cells of the arterial wall – effects of statins; cell and molecular biology, biology and pathology of the cardiovascular system, biochemistry
Name and type of organization providing education and training	Romanian Academy, Institute of Cellular Biology and Pathology "Nicolae Simionescu", Bucharest
Dates	**June 24th – July 3rd, 2000**
Title of qualification awarded	Certificate of attendance NATO Advance Study Institute Summer School
Principal subjects/occupational skills covered	Vascular Endothelium: Source and Target of Inflammatory Mediators
Name and type of organization providing education and training	NATO Advance Study Institute, Crete, Greece (fellowship from "Boehringer Ingelheim Fonds")
Dates	**October 15th – December 20th, 1998**
Title of qualification awarded	Certificate of visiting student - Inter-academic exchange
Principal subjects/occupational skills	Determination of lipoproteins composition, immunohistochemical analysis, morphometric

covered	measurements of atherosclerotic lesions and molecular biology techniques
Name and type of organization providing education and training	Center for Molecular and Vascular Biology, Katholieke Universiteit Leuven, Belgium (fellowship from "Fund for Scientific Research-Flanders") (Prof. Paul Holvoet Laboratory)
Dates	**September 1988 - June 1993**
Title of qualification awarded	B.Sc. in Chemistry - Biochemistry
Principal subjects/occupational skills covered	General Biochemistry (4 years) - Organic and Inorganic Chemistry, Physics Chemistry, Biochemistry, Plant and Animal Biology, Cell Biology; Specialization in Enzymology (1 year) – Biochemistry, Enzymology
Name and type of organisation providing education and training	Department of Biochemistry, Chemistry Faculty, University of Bucharest

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
French	B1	Independent user	B1	Independent user	A2	Basic user	A2	Basic user	A2	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences	- **Ability to work in a team** obtained following the activity in the Lipidomics Department, Lipoproteins and Atherogenesis Laboratory, from ICBP-NS; - **Ability to coordinate the implementation of tasks** to achieve an objective, obtained from the coordination of research projects both as project manager and collaborator; - **Ability to adapt to multicultural communication,** obtained from four-month stages and as a result of attendance the international scientific meetings and courses in France, Switzerland, Italy, Greece, Turkey, Sweden, Austria and Hungary.
Organizational skills and competences	- **Writing research reports and scientific papers**; - **Ability to organize scientific events;** - **Chair of the ICBP-NS Ethics Commission** from 2017
Technical skills and competences	***Technical expertise*:** experimental animal model – experimental design, anesthesia techniques, laparatomy, organ harvesting and processing to obtain cryosections or paraffin sections, modification of the arterial wall and heart valves in the prelesional and lesional stage of experimentally induced atherosclerosis in hyperlipidemic/ diabetic hamsters, molecular mechanisms altered in small intestine and liver; light, fluorescence (confocal) and electronic microscopy for cells in culture and tissues; ***Awards:*** **- *"Nicolae Simionescu"* Romanian Academy Award 2017** for translational medicine studies on lipid metabolism dysfunctions and epigenetics associated with atherosclerosis and diabetes **-"Constantin Velican" Romanian Society for Cell Biology Award 2011** for Cell Biology research with implication for Molecular Medicine. **- "Sanofi" Thrombosis Prize 1998** for Atherosclerosis and Thrombosis Research.
Computer skills and competences	- Advanced knowledge of Microsoft Office suite (Word, Excel, Power Point) - Advanced knowledge of control and data processing softwares for Akta FPLC (Unicorn 5.2), real-time PCR systems Applied Biosystems (StepOnePlus, ViiA7) and Leica TCS-SP5 confocal microscope (LAS AF Lite 2.6.0) - Knowledge of image analysis (Adobe Photoshop, Nikon NIS Elements AR) - Advanced knowledge of internet use
Artistic skills and competences	- Hobbies: photography and mountain trips.
Other skills and competences	- **Project manager of 7 national grants**; Collaborator in other 6 international and 25 national grants - **Hirsch index: 13; total number of citations, according to Scopus: 690**
Driving license	Driving license category B, from 2010

Additional information	- Member of Romanian Association for Laboratory Animal Science (ARSAL) from 2016 - Member of European Atherosclerosis Society (EAS) from 2009 - Member of the Romanian Society of Cell Biology (SRBC) from 1994

SELECTED LIST OF PUBLISHED PAPERS

1. Simionescu M., Popov D., Sima A., Haşu M., Costache G., Faitär S., Vulpanovici A., **Stancu C.**, Stern D., Simionescu N. Pathobiochemistry of combined diabetes and atherosclerosis studied on a novel animal model - The hyperlipemic-hyperglycemic hamster. *American Journal of Pathology* 148(3): 997-1014, (1996).
2. Sima A., Popov D., Starodub O., **Stancu C.**, Cristea C., Stern D., Simionescu M. Pathobiology of the heart in experimental diabetes: Immunolocalization of lipoproteins, immunoglobulin G, and advanced glycation endproducts proteins in diabetic and/or hyperlipidemic hamster. *Laboratory Investigation* 77(1): 3-18 (1997).
3. Sima A., **Stancu C.**, Constantinescu E., Ologeanu L., Simionescu M. The hyperlipemic hamster - a model for testing the anti-atherogenic effect of amlodipine. *Journal of Cellular and Molecular Medicine* 5(2): 153-162 (2001).
4. Niculescu L., **Stancu C.,** Sima A., Simionescu M. The total peroxyl radical trapping potential in serum - an assay to define the stage of atherosclerosis, *Journal of Cellular and Molecular Medicine* 5(3): 285-294 (2001).
5. **Stancu C.**, Sima A., Statins: mechanism of action and effects. Journal of Cellular and Molecular Medicine 5(4): 378-387 (2001).
6. Simionescu M., **Stancu C.,** Costache G., Sima A. Endothelial cell response to hyperlipemia: Activation-dysfunction-injury, the protective role of simvastatin. *Vascular Pharmacology* 38(5): 275-282 (2002).
7. Sima A., **Stancu C**. Modified lipoproteins accumulate in human coronary atheroma. *Journal of Cellular and Molecular Medicine* 5(4): 110-111 (2002)
8. Radulescu L., **Stancu C.,** Antohe F. Antibodies against human oxidized low-density lipoprotein (LDL) as markers for human plasma modified lipoproteins. *Medical Science Monitor*, 10 (7):207-214 (2004)
9. Sima A., Iordan A., **Stancu C.** Apolipoprotein E polymorphism - a risk factor for the metabolic syndrome. *Clinical Chemistry and Laboratory Medicine*, 45(9): 1149-53 (2007)
10. Sima A.V., **Stancu C.,** Simionescu M. Vascular endothelium in atherosclerosis. *Cell and Tissue Research*, 335:191-203 (2009).
11. Toma L., **Stancu C.,** Botez G.M., Sima A.V., Simionescu M. Irreversibly glycated LDL induce oxidative and inflammatory state in human endothelial cells; added effect of high glucose. *Biochemical and Biophysical Research Communications*, 390: 877-82 (2009) (IF 2.37, AIS 0.7).
12. Sima A.V., Botez G.M., **Stancu C.,** Manea A., Raicu M., Simionescu M. Effect of irreversibly glycated LDL in human vascular smooth muscle cells: Lipid loading, oxidative and inflammatory stress. *Journal of Cellular and Molecular Medicine* 14(12): 2790-2802 (2010)
13. **Stancu C.,** Constantinescu E., Sima A. Ceruloplasmin and oxidized LDL colocalize in atherosclerotic lesions of hamster. *Central European Journal of Biology*, vol. 6(1): 23-31 (2010).
14. Toma L., **Stancu C.S.,** Sanda G.M., Sima A.V. Anti-oxidant and anti-inflammatory mechanisms of amlodipine action to improve endothelial cell dysfunction induced by irreversibly glycated LDL. *Biochemical and Biophysical Research Communications* 22; 411(1): 202-7 (2011)
15. **Stancu C**, Toma L, Sima A.V. Dual role of lipoproteins in endothelial cell dysfunction in atherosclerosis. *Cell and Tissue Research*, 349(2): 433-446 (2012).
16. **Stancu C.S**., Sanda G.M., Deleanu M., Sima A.V. Probiotics determine hypolipidemic and antioxidant effects in hyperlipidemic hamsters, *Molecular Nutrition and Food Research* 58 (3): 559-568 (2014).
17. Niculescu L.S., Simionescu N., Sanda G.M., Carnuta M.G., **Stancu C.S.,** Popescu A.C., Popescu M.R., Vlad A., Dimulescu D.R., Simionescu M., Sima A.V. MiR-486 and miR-92a identified in circulating HDL discriminate between stable and vulnerable coronary artery disease patients. *PLOS One*, 10(10):e0140958, (2015)
18. **Stancu C.S.,** Carnuta M.G., Sanda G.M., Toma L., Deleanu M., Niculescu L.S., Sasson S., Simionescu M., Sima A.V. Hyperlipidemia-induced hepatic and small intestine ER stress and decreased paraoxonase 1 expression and activity is associated with HDL dysfunction in Syrian hamsters. *Molecular Nutrition and Food Research* 59, 2293-2302, (2015).
19. Simionescu N., Niculescu L.S., Carnuta M.G., Sanda G.M., **Stancu C.S.,** Popescu A.C., Popescu M.R., Vlad A., Dimulescu D.R., Simionescu M., Sima A.V. Hyperglycemia Determines Increased Specific MicroRNAs Levels in Sera and HDL of Acute Coronary Syndrome Patients and Stimulates MicroRNAs Production in Human Macrophages. *PLoS One*. 11(8):e0161201 (2016)
20. Sanda G.M., Deleanu M., Toma L., **Stancu C.S.,** Simionescu M., Sima A.V. Oxidized LDL-Exposed Human Macrophages Display Increased MMP-9 Expression and Secretion Mediated by Endoplasmic Reticulum Stress. *Journal of Cellular Biochemistry* 118(4):661-669 (2017)
21. Carnuta M.G.*, **Stancu C.S.***, Toma L., Sanda G.M., Niculescu L.S., Deleanu M., Popescu A.C., Popescu M.R., Vlad A., Dimulescu D.R., Simionescu M., Sima A.V. Dysfunctional high-density lipoproteins have distinct composition, diminished anti-inflammatory potential and discriminate acute coronary syndrome from stable coronary artery disease patients. *Scientific Reports* 7(1):7295 (2017).
22. Carnuta M.G., Deleanu M., Barbalata T., Toma L., Raileanu M., Sima A.V., **Stancu C.S**. Zingiber officinale extract administration diminishes steroyl-CoA desaturase gene expression and activity in hyperlipidemic hamster liver by reducing the oxidative and endoplasmic reticulum stress. *Phytomedicine* (2018).