

CRINA SOLOMON-RADU MD, M.Sc

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PROFESSIONAL EXPERIENCE

Physician <i>Diabetes, Nutrition and Metabolic Diseases</i>	2023
National Patent <i>Title of the invention: Endovascular simulator dedicated to the analysis of intraluminal blood flow and pressure in patients with complex aortic pathology (No 133683) State office for Inventions and Trademarks</i>	2021
Teaching assistant <i>Lucian Blaga University Faculty of Medicine Sibiu, Romania</i>	2020
PhD Student <i>University Lucian Blaga Sibiu, Faculty of Medicine, Sibiu, Romania</i>	2020
Medical resident in Diabetes, Nutrition and Metabolic Diseases <i>University Lucian Blaga Sibiu, Faculty of Medicine, County Clinical Emergency Hospital Sibiu Sibiu, Romania</i>	2018
Clinical researcher <i>University Lucian Blaga Sibiu, Faculty of Medicine, Sibiu, Romania</i>	2017
Clinical researcher <i>Montreal Heart Institute Montréal, Canada</i>	2007- 2017
Research assistant <i>Hopital du Sacré-Cœur Montréal, Sleep Center, Montréal, Canada</i>	2007-2010

PhD student in Biomedical Sciences <i>University of Montreal</i> <i>Montreal University Hospital Center (CHUM), Canada</i> <i>Montréal, Canada</i>	2005-2007
Master student in Biomedical Sciences <i>University of Montreal</i> <i>Montreal Clinical Research Institute (IRCM)</i> <i>Montréal, Canada</i>	2003-2005
Resident in General Medicine <i>University «Lucian Blaga »,</i> <i>Faculty of medicine « V.Papilian », Sibiu, Romania</i>	1999-2001

TRAINING

EDUMICRO

Training certificate: Microsoft Excel Advance 2013

Toronto General Research Institute (TGRI) 2011

Division of Behavioural Sciences & Health, Toronto

Training certificate: Behavioural Neurocardiac Regulation

University of medicine, Faculty of Pharmacy, Montréal 2008

Coordination of the clinical trial

Cardiology Institute of Montréal 2007

Training certificate: good clinical practice

University of Montréal,
Faculty of graduate studies, Montréal 2007

PhD program in Biomedical Sciences

Director: Dre Julie Lavoie

University of Montréal,
Faculty of graduate studies, Montréal 2005

Master program in Biomedical Sciences

Director: Dr Jean Davignon

Clinical University Hospital, Sibiu, Romania 2002

Resident in General Medicine

University «Lucian Blaga », 1999

Faculty of Medicine « V.Papilian », Sibiu, Romania

Bachelor's degree in medicine

COMPUTER KNOWLEDGE

- Specialized ECG analysis software : Vision Premier, VCGMI, Matlab, LabCHART (AD Instruments), BNT
- Word, Excel, Power Point
- Statistical analysis (SPSS, Statistica)
- Bibliographic reference management (Reference Manager, EndNote)
- Specialized software for clinical patient's information: OACIS, MediPatient, RadImage, MediVisit

SCHOLARSHIPS

- **Scholarship of excellence 2020 - 2024**
University Lucian Blaga, Institute of Doctoral studies
- **Scholarship Neurodiab Magyar Imre 2019**
Scientific committee of European Diabetic neuropathy
- **Scholarship of excellence 2004-2005**
*University of Montreal,
Faculty of graduate studies Montreal*
- **Studies scholarship 1996-1999**
*University «Lucian Blaga »,
Faculty of Medicine « V. Papilian », Sibiu, Romania*

PROFESSIONAL AFFILIATIONS

- Member of the Medical Council of Romania
- Member of International Society of Endovascular Specialists (ISEVS)
- Medical council of Canada: exam passed

WRITTEN AND SPOKEN LANGUAGE

Romanian, French, English

CLINICAL RESEARCH PROJECT

Project “Methods of diagnosis and treatment of major complications after transcatheter valve implantation, clinical correlations and CFD”, Lucian Blaga University of Sibiu, from non-refundable external funding granted by Hasso Plattner Institute and Hasso Plattner Foundation 2021 - 2022, LBUS-HPI-ERG-2020-01

Project “Educating students for developing high quality research skills (ENSURE) Norway”. The education, scholarship Programme (ESAYEP) 2014 – 2021 – EEA Financial Mechanism, Universitatea Lucian Blaga, Sibiu, Romania. EY-COP-0049, <http://www.eea4edu.ro/despre-program/>

Project “Next generation computer aided research in cardiovascular disease management (NectCARDIO) POC-A1-A1.1-E-2015, <http://nextcardio.ro/>, Universitatea Lucian Blaga, Sibiu, Romania.

Gentle exercise program based on Bali yoga for persons with heart failure (PYB-IC). Cardiology Institute of Montréal (Dr D’Antono B, Dr White M, Dr Dupuis G, Dr Racine N, Dr Ducharme A, Dr O’Meara E, Dr Rouleau JL, Dr Liszkowski M)

Stress management and metabolic syndrome: a pilot study (MBSR-MS). Montreal Heart Institute (Dr D’Antono B, Gentile C, Starnino L, Dr Dupuis G)

Psychological burden and pathological aging in individuals with or without cardiovascular disease (Bel-Âge). Montreal Heart Institute (Dr D’Antono B, Dr Busque L, Dr Dubé MP, Dr Tardif JC)

Gender differences: the role of stress, hostility, and autonomic system functions in cardiovascular health and disease (GAHR-I). Montreal Heart Institute (Dr D’Antono B, Dr Moskowitz DS, Dr Tardif JC, Dr Hamet P)

Physiological reactivity to psychosocial stressors in men and women of different ages (GAHR-II). Montreal Heart Institute (Dr D’Antono B, Dr Moskowitz DS, Dr Tardif JC, Dr Hamet P)

Neurocardiac response and autogenic relaxation in patients with heart failure: Pilot study on the feasibility and acceptability of the intervention. Manage your stress by controlling your heart and breathing rate (RETRO). Montreal Heart Institute (Dr. D’Antono B, Dr White M, Dr Ducharme A, Dr Racine N, Dr O’Meara E, Dr Deschamps A, Dr Nolan R)

Predictive value at the baseline level of autonomic dysfunction on the incidence of morbidity and mortality post-cardiac surgery. Studies by analysis of variation in frequency and blood pressure. Relationship between heart rate variability and post-operative implications (Sympathetic). Montreal Heart Institute (Dr Deschamps A)

Pilot study of quality of life and psychological burden of intensified monitoring in patients with a defibrillation lead under monitoring: comparison between the system “CareLink” and self-monitoring of an alarm system (FIDELIS). Sacré-Cœur Hospital of Montreal, Department of Electrophysiology. (Dr Hus T, Dr D’Antono B, Dr Sturmer M, Dr Sas G, Dr Côté MC)

Quality of life, stress and psychological distress, and symptoms of syncope before and after the tilt table test. Sacré-Cœur Hospital of Montreal, Montreal Heart Institute. (Dr D’Antono B, Dr Dupuis G, Dr Kus T, Dr Nadeau R, Dr Guerra P, Dr Thibault B)

SCIENTIFIC ARTICLES PUBLISHED

1. Popitiu MI, Ionac M, **Solomon C**, Alexandrescu V, Timar B. *Complex lower limb revascularization based on angiosomes concept: a case report*. Clinical Case Rep, volume 10:8, 2020, doi: 10.37421/jccr.2020.10.1375
2. Costache VS, Meekel, JP, Costache, A, Melnic T, Bucurenciu C, Chitic A, Candea G, **Solomon C**, Yeung KK. *One-year single-center results of the multilayer flow modulator stents for the treatment of type B aortic dissection*. J Endovasc Ther. 2020 Sep; doi: 10.1177/1526602820950720. PMID: 32873130
3. Costache SV, Meekel JP, Costache A, Melnic T, **Solomon C**, Chitic AM, Bucurenciu C, Moldovan H, Antoniac I, Candea G, Yeung KK. *Geometric analysis of type B aortic dissections shows aortic remodeling after intervention using multilayer stents*. Materials (Basel). 2020 May 15;13(10):2274. doi:10.3390/ma13102274.PMID: 32429089
4. Costache VS, Yeung KK, **Solomon C**, Popa R, Melnic T, Sandu M, Bucurenciu C, Candea G, Santa A, Costache A. *Aortic Remodeling After Total Endovascular Aortic Repair With Multilayer Stents: Computational Fluid Dynamics Analysis of Aortic Remodeling Over 3 Years of Follow-up*. J Endovasc Ther. 2018 Dec;25(6):760-764; doi:10.1177/1526602818808049. Epub 2018 Oct 24. PMID: 30354915
5. Melnic T, **Solomon C**, Costache A, Sandu M, Bucurenciu C, Candea G, Slavu A, Costache V. *Total supra-aortic trunk coverage with new-generation multilayer stents for complex aortic diseases*. Journal of vascular surgery, 2018, vol 68, issue 5, pages E144-E144, supplement S, DOI: 10.1016/j.jvs.2018.08.090
6. Bossé S, Masciotra V, **Solomon C**, Stalder T, D'Antono B. *Childhood trauma, perceived stress, and hair cortisol in adults with and without coronary artery disease*. Psychoneuroendocrinology. 2015 Nov;61:36
7. Gentile C, Dragomir AI, **Solomon C**, Nigam A, D'Antono B. *Sex differences in the prediction of metabolic burden from physiological responses to stress*. Ann Behav Med. 2015 Feb;49(1):112-27
8. D'Antono B, Goldfarb M, **Solomon C**, Sturmer M, Becker G, Essebag V, Hadjis T, Gizicki E, Gelais JS, Sas G, Côté MC, Kus T. *Psychological impact of surveillance in patients with a defibrillator lead under advisory: a prospective evaluation*. Pacing Clin Electrophysiol. 2013 Feb;36(2):221-30
9. D'Antono B, **Solomon C**, Goldfarb M, Sturmer M, Becker G, Essebag V, Hadjis T, Gizicki E, Gelais JS, Sas G, Kus T. *Psychological impact of surveillance in patient with a FIDELIS defibrillator lead under advisory*. ANNALS of BEHAVIORAL MEDICINE, 2012, volume 43, pages S96-S96
10. Lafranchi PA, Solomon C, Nugam A, Bureau S, D'Antono B. *Impaired sleep quality, metabolic and inflammatory markers in pre- and postmenopausal women*. Sleep, 2010, volume 33, page A375-A375.
11. Falcao S, **Solomon C**, Monat C, Bérubé J, Gutkowska J, Lavoie JL. *Impact of diet and stress on the development of preeclampsia-like symptoms in p57kip2 mice*. Am J Physiol Heart Circ Physiol. 2009 Jan;296(1):H119-26.
12. Chevrette L, Morin C, **Solomon C**, Montplaisir J, Lanfranchi P. *Nighttime cardiac arrhythmias are not increased in apparently healthy subjects with chronic insomnia: a retrospective analysis*. Sleep, 2009, volume 32, page A271-A271.
13. **Solomon C**, Li C, Lavoie JL. *Is placenta really the major player in the development of preeclampsia?* Journal of Hypertension, 2006, volume 24, page 337-337.

14. **Solomon C**, Bernier L, Germain L, Dufour R, Davignon J. *Severe oily ichthyosis in monozygotic twins mimicking Chanarin-Dorfman syndrome but not associated with a mutation of the CGI58 gene*. Arch Dermatol. 2006 Mar;142(3):402-3

ABSTRACTS AND ORAL PRESENTATIONS AT INTERNATIONAL MEETINGS AND CONGRESSES

Solomon C, Gligor F. Obesity: From Definition to New Therapeutic Approaches. Current Developments and Perspectives in Pharmaceutical Research – Scientific Conference for Faculty and Doctoral Students, Annual Congress, November 7–8, 2025, Sibiu, Romania. Oral presentation.

Solomon C, Gligor F. The Effects of Oral Semaglutide in Individuals with Type 2 Diabetes and Stable Atherosclerotic Cardiovascular Disease and/or Chronic Kidney Disease. Current Developments and Perspectives in Pharmaceutical Research – Scientific Conference for Faculty and Graduate Students, Annual Congress, December 13–14, 2024, Sibiu, Romania. Oral presentation.

Solomon C, Gligor F. Pharmacological and non-pharmacological therapeutic strategies for atrial fibrillation. Current developments and future prospects in pharmaceutical research – scientific conference for faculty members and doctoral students, Annual Congress, November 30, 2022, Sibiu, Romania. Oral presentation.

Solomon C, Melnic T, Chitic A, Costache V. Endovascular treatment with blood flow-modulating stents (MFM) in complicated thoracoabdominal aortic dissections, Sibiu Medical Days, Annual Congress, April 13–15, 2022. Oral presentation.

Costache A, Chitic A, **Solomon C**, Melnic T, Farcas F, Costache V. Minimally invasive mitral and aortic valve replacement via right mini-thoracotomy with videoscapy and automated suturing. ISMICS Annual scientific meeting, 18 – 20 June 2021, Poland.

Costache V, Costache A, **Solomon C**, Chitic A, Bucurenciu C, Candea G. TEVAR for complicated thoracoabdominal aortic dissections with multilayer stents. ISMICS Annual scientific meeting, 18 – 20 June 2021, Poland.

Tatiana Melnic, **Crina Solomon**, Andreea Costache, Mihai Sandu, Cristian Bucurenciu, Sandu Anca-Maria, Alexandru Slavu, Victor Costache. Full recovery of type B aortic dissection by endovascular aortic treatment with MFM. Euro Thrombosis 2018, Barcelona, Spain.

T. Melnic, A. Costache, C. Condac, A. Chitic, Maged Mokbel, **C. Solomon**, Sandu Mihai-Alexandru, Cristian Bucurenciu, Sandu Anca-Maria, Alexandru Slavu, V.S. Costache. Multi-layer Flow-modulating Stents for the Treatment of Thoracoabdominal Aortic Dissections. Biommed 2018, Cluj, Romania.

T. Melnic, V.S. Costache, **C. Solomon**, A. Costache, Sandu Mihai-Alexandru, Cristian Bucurenciu, Sandu Anca-Maria. Endovascular treatment with a multilayer stent graft for thoracoabdominal aortic dissection – imaging and CFD results at 3 years. Düsseldorf, Germany.

Tatiana Melnic, **Crina Solomon**, Andreea Costache, Mihai Sandu, Cristian Bucurenciu, Sandu Anca-Maria, Alexandru Slavu, Victor Costache. The Role of Multilayer Stents in the Treatment of Aortic Dissection type B: A Single-Center Experience. Cardiovascular Development Meeting, Marsilia, France.

T. Melnic, V.S. Costache, **C. Solomon**, A. Costache, Sandu Mihai-Alexandru, Cristian Bucurenciu, Sandu Anca-Maria. The Role of Multilayer Stents in the Treatment of Aortic Dissection: A Single-Center Experience. Multilayer Flow Modulator Stents in Aortic Dissection. Euro Echo-Imaging 2018, Milano, Italia.

T. Melnic, V.S.Costache, **C. Solomon**, A. Costache, Sandu Mihai-Alexandru, Cristian Bucurenciu, Sandu Anca-Maria. Aortic dissection in a patient with Marfan syndrome managed with multilayer flow modulator. Euro Echo-Imaging 2018, Milano, Italia.

T. Melnic, V.S.Costache, **C. Solomon**, A. Costache, Sandu Mihai-Alexandru, Cristian Bucurenciu, Sandu Anca-Maria. The Role of Multilayer Stents in the Treatment of Aortic Dissection: A Single-Center Experience. Multilayer Flow Modulator Stents in Aortic Dissection. 2019, Sinaia, Romania.

V. Costache, O. Stiru, K.K. Yeung, A. Costache, **C. Solomon**, T. Melnic, M. Sandu, R. White, G. Wheatley. Multilayer flow modulating stents for the treatment of thoracoabdominal aortic dissections. STS 2019, San Diego.

Tatiana Melnic, **C. Solomon**, Andreea Costache, Mihai Sandu, Cristian Bucurenciu, Gabriela Candea, Alexandru Slavu, Victor Costache. Total supra-aortic trunks coverage with new generation multilayer stents for complex aortic pathologies. VEITH Symposium 2018, New York, SUA

Bossé S, Masciotra V, **Solomon C**, Stalder T, D'Antono B. Childhood trauma, perceived stress, and hair cortisol in adults with and without coronary artery disease. Psychoneuroendocrinology. 2015 Nov;61:36

Solomon C, Li C, and Lavoie L.J. Is placenta really the major player in the development of preeclampsia. J. Hypertens. 2006.

Solomon C, Li C, Lavoie J.L. Dissociation of pathophysiology of the placenta and blood pressure phenotype in mouse models of preeclampsia. FASEB J 2006.

Solomon C, Li C, Lavoie J.L. Caractérisation de la pathologie placentaire dans des modèles murins de la pré-éclampsie. M/S, 22 (Suppl. 1):28, 2006.

Solomon C, Li C, Lavoie L.J. Is placenta really the major player in the development of preeclampsia? 21e Réunion scientifique de la Société internationale d'hypertension, 15-19 octobre 2006, Fukuoka, Japon.

Solomon C, Li C, Lavoie L. J. Différents aspects pathologiques de la pré-éclampsie dans deux modèles murins. Journée annuelle de la recherche du département d'obstétrique-gynécologie, 28 avril 2006, Montréal, Québec.

Solomon C, Li C, Lavoie L. J. Dissociation of pathophysiology of the placenta and blood pressure phenotype in mouse models of preeclampsia. Experimental Biology, 1-5 avril 2006, San Francisco, CA.

Solomon C, Li C, Lavoie L. J. Caractérisation de la pathologie placentaire dans des modèles murins de la pré-éclampsie. 14e Réunion Scientifique annuelle de la Société Québécoise d'hypertension artérielle, 12-14 janvier 2006, Montréal, Québec.

Solomon C, Li C, Lavoie L. J. Caractérisation de la pathologie placentaire dans des modèles murins de la pré-éclampsie. 8e congrès des étudiants et stagiaires du CRCHUM, 21 décembre 2005, Montréal, Québec.

Solomon C, Bernier L, Larouche D, Germain L, Davignon J. Un cas sévère d'ichtyose huileuse chez deux jumelles monozygotes imite au syndrome de Chanarin-Dorfman. Journée de la recherche de l'IRCM, 16 mai 2005, Montréal, Québec.

Solomon C, Bernier L, Larouche D, Germain L, Davignon J. Un cas sévère d'ichtyose huileuse chez deux

jumelles monozygotes ressemble au syndrome de Chanarin-Dorfman. Société québécoise de lipidologie, de nutrition et de métabolisme, 6e Réunion annuelle 28-30 avril 2005, St. Foy, Québec.

Solomon C, Bernier L, Larouche D, Germain L, Davignon J. A phenotype resembling Chanarin- Dorfman Syndrome in monozygotic twins. Proceedings of the 29th Annual Canadian Lipoprotein Conference, 21-24 oct. 2004, Banff, Alberta.