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CURRICULUM VITAE

Informaţii personale

Nume / Prenume	**Victor S Costache MD, PhD**
Adresă(e)	
Telefon(oane)	Mobil:
E-mail(uri)	
Naționalitate(-tăți)	Română, Franceza
Data nașterii	
Sex	Masculin

Locul de muncă vizat / Domeniul ocupaţional

Universitatea Titu Maiorescu/Medicină/Profesor Universitar

Experienţa profesională

Perioada	2020
Funcția sau postul ocupat	Membru al Academiei franceze de chirurgie
Numele și adresa angajatorului	Académie Française de Chirurgie
Tipul activității sau sectorul de activitate	Academic

Perioada	2019 - prezent
Funcția sau postul ocupat	Director medical - Chirurg cardiovascular și toracic
Numele și adresa angajatorului	Spitalul Sf Constantin, Brașov, România
Tipul activității sau sectorul de activitate	Sănătate

Perioada	2019
Funcția sau postul ocupat	Ministrul Sănătății
Numele și adresa angajatorului	Guvernul României, București România
Tipul activității sau sectorul de activitate	Sănătate

Perioada	2013 – 2019
Funcția sau postul ocupat	Medic Șef Secție – Chirurg cardiovascular și toracic
Numele şi adresa angajatorului	Departamentul de Chirurgie Cardiovasculară și Toracică, Spitalul Polisano, Sibiu România
Tipul activităţii sau sectorul de activitate	Sănătate

Perioada	2013 - 2019
Funcţia sau postul ocupat	Director Medical – Chirurg cardiovascular și toracic
Numele şi adresa angajatorului	Departamentul de Chirurgie Cardiovasculară și Toracică, Spitalul Polisano, Sibiu România
Tipul activităţii sau sectorul de activitate	Sănătate

Perioada	2010 - 2013
Funcția sau postul ocupat	Medic Șef Secție – Chirurg cardiovascular și toracic
Numele și adresa angajatorului	Departamentul de Chirurgie Cardiacă din Sectorul Public, Franța
Tipul activității sau sectorul de activitate	Sănătate

Perioada	2008 – 2013
Funcția sau postul ocupat	Chirurg cardiovascular și toracic
Numele şi adresa angajatorului	Departamentul de Chirurgie Cardiacă din Sectorul Public, Franța
Tipul activităţii sau sectorul de activitate	Sănătate

Perioada	2006
Funcţia sau postul ocupat	Medic specialist Chirurgie toracică
Numele şi adresa angajatorului	Departamentul de Chirurgie Toracică, București,
România Tipul activităţii sau sectorul de	Sănătate activitate

Perioada	2003-2009
Funcţia sau postul ocupat	Medic rezident
Numele şi adresa angajatorului	Departamentul de Chirurgie Cardiovasculară, CHU (Centre Hospitalier Universitaire) Grenoble și Toulouse, Franța
Tipul activităţii sau sectorul de Sănătate activitate	

Perioada	2000-2003
Funcţia sau postul ocupat	Medic rezident
Numele şi adresa angajatorului	Departamentul de Chirurgie Toracică, Universitatea de Medicină și Farmacie "Gr. T. Popa " Iași, România

Educatie si formare

Perioada	2014
Calificarea / diploma obţinută	Master în Managementul Sănătaţii
Disciplinele principale studiate / competenţe profesionale dobândite	Management
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătaţii
Nivelul în clasificarea naţională sau internaţională	Diploma de Master

Perioada	2009
Calificarea / diploma obţinută	Doctorat
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea de Medicină și Farmacie „Gr. T. Popa" Iași, România
Nivelul în clasificarea naţională sau internaţională	Diploma PhD

Perioada	2008
Calificarea / diploma obţinută	Fellowship
Disciplinele principale studiate / competenţe profesionale dobândite	Chirurgie Cardiovasculară și Toracică
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea Laval, Institutul de Cardiologie, Quebec,Canada
Nivelul în clasificarea naţională sau internaţională	Fellowship

Perioada	2007
Calificarea / diploma obţinută	Diplomă inter-universitară
Disciplinele principale studiate	Chirurgie Endovasculară
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Lyon, Marseille, Franța
Nivelul în clasificarea naţională sau internaţională	DIU (Diploma inter-universitara)

Perioada	2004
Calificarea / diploma obţinută	Master
Disciplinele principale studiate	Anatomie
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Facultatea de Medicina J. Fourier, Grenoble, Franța

Nivelul în clasificarea naţională internaţională	Master sau
Perioada	1993 - 1999
Calificarea / diploma obţinută	Licența în Medicină
Disciplinele principale studiate	Medicina Generală
Numele şi tipul instituţiei de / furnizorului de formare	Facultatea de Medicina și Farmacie „Gr. T. Popa" Iași, România învăţământ
Nivelul în clasificarea naţională internaţională	Licență sau

Aptitudini şi competenţe personale

Limba(i) maternă(e) **Limba română**

Limba(i) străină(e) cunoscută(e) **Franceză, Engleză**

Autoevaluare	**Înţelegere**		**Vorbire**		**Scriere**
Nivel european (*)			Ascultare	Citire	Participare la conversaţie	Discurs oral	Exprimare scrisă
Limba franceză	C2	C2	C2	C2	C2
Limba engleză	C2	C2	C2	C2	C2

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Competenţe şi aptitudini organizatorice

- Leadership – experiență profesională în management obținută în urma responsabilităților ca șef de secție dar de asemenea dobândită și datorită profesiei – peste 1400 intervenții chirurgicale ca și chirurg principal (by-pass coronarian, înlocuire valvei aortice, chirurgie aortă ascendentă, chirurgie valvă mitrală, suport circulator, transplant cardiac și pulmonar)
- Competențe organizaționale – cofondator al primului centru de chirurgie cardiovasculară într-un spital public-privat în Franța (Annecy, Lemanic), cofondator al primului centru privat universitar de chirurgie cardiovasculară și toracică din România, președinte al comisiei naționale al chirurgilor cardiovasculari din cadrul Ministerului Sănătății din România
- Investigator proiecte de cercetare – multicentru de cercetare cu rezultate publicate în peste 100 reviste naționale și internaționale
- Fund raising – experiența la nivel de management

Competenţe şi aptitudini tehnice

- Experiență vastă în chirurgie cardiacă dobândită prin efectuarea a peste 1800 de intervenții ca și chirurg principal (CABG, înlocuirea de valva aortica, intervenții aorta ascendentă, intervenții valvă mitrală, suport circulator, transplant cardiac și pulmonar), peste 200 intervenții chirurgicale minim-invazive pentru valva mitrala și aortică, TAVR, sutureless, și peste 1,700 intervenții de chirurgie cardiacă ca și chirurg secundar, peste 400 de intervenții de chirurgie vasculară și endovasculară (TEVAR, EVAR, intervenții la nivelul arterelor carotide, boala arterelor periferice), peste 200 intervenții de chirurgie toracică (rezecție pulmonară, reconstrucție de perete toracic, rezecție traheală)

Permis(e) de conducere Categoria B

Informații suplimentare

Articole științifice

1. Prisecaru R.S, **Costache V**. Wide QRS tachycardia after recent pulmonary vein isolation. Neth Heart J., 27 January
2021. doi: 10.1007/s12471-021-01547-w

2. **Costache VS,** Meekel, JP, Costache, A, Melnic T, Bucurenciu C, Chitic A, Candea G, Solomon C, Yeung KK. OneYear Single-Center Results of the Multilayer Flow Modulator Stents for the Treatment of Type B Aortic Dissection. J
Endovasc Ther, 2020 Sep 1:1526602820950720. 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
4.
5. Meekel JP, Mattei G, **Costache VS**, Balm R, Blankensteijn JD, Yeung KK. A multilayer micromechanical elastic modulus measuring method in ex vivo human aneurysmal abdominal aortas. Acta Biomater. 2019 Sep 15;96:345353. doi: 10.1016/j.actbio.2019.07.019. Epub 2019 Jul 12. PubMed PMID: 31306785.

6. Sultan S, Kavanagh EP, Veerasingam D, **Costache V**, Elhelali A, Fitzgibbon B, Diethrich E, Hynes N. Kinetic Elephant Trunk Technique, Early Results in Chronic Symptomatic Aortic Dissection Management. Ann Vasc Surg.
2018 Nov 23. pii: S0890-5096(18)30851-3. doi: 10.1016/j.avsg.2018.08.083. [Epub ahead of print] PubMed PMID: 30476618.

7. **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. PubMed PMID: 30354915.

8. Birlutiu V, Birlutiu RM, **Costache VS**. Viridans streptococcal infective endocarditis associated with fixed orthodontic appliance managed surgically by mitral valve plasty: A case report. Medicine (Baltimore). 2018 Jul;97(27):e11260.
doi: 10.1097/MD.0000000000011260. PubMed PMID: 29979391; PubMed Central PMCID: PMC6076147.

9. Horatiu Moldovan, Daniela Gheoghita, Iulian Antoniac, Dan Gheorghe, Fabrizio Fiori, Aurel Mohan, Gheorghe Raftu, Cristian Ionel, **Victor Costache** "*Bioadhesives Used in Cardiovascular Surgery*" Revista de Chimie http://www.revistadechimie.ro/article_eng.asp?ID=6627

10. **Costache VS**, Moldovan H, Arsenescu C, Costache A. Aortic valve surgery of the 21st century: sutureless AVR versus TAVI. Minerva Cardioangiol. 2018 Apr;66(2):191-197. doi: 10.23736/S0026-4725.17.04558-3. Epub 2017 Nov 20. Review. PubMed PMID: 29160044.

11. Constantinescu V, Matei D, **Costache V**, Cuciureanu D, Arsenescu-Georgescu C. Linear and nonlinear parameters of heart rate variability in ischemic stroke patients. Neurol Neurochir Pol. 2018 Mar;52(2):194-206. doi:
10.1016/j.pjnns.2017.10.002. Epub 2017 Oct 11. PubMed PMID: 29110883.

12. Sultan S, Kavanagh EP, Diethrich E, **Costache V**, Sultan M, Jordan F, Hynes N. A clinical review of early outcomes from contemporary flow modulation versus open, fenestrated and branch technologies in the

management of thoracoabdominal aortic aneurysm. Vascular. 2018 Apr;26(2):209-215. doi: 10.1177/1708538117724933. Epub 2017 Aug 24. Review. PubMed PMID: 28836901.

13. Sultan S, Kavanagh EP, Stefanov F, Sultan M, Elhelali A, **Costache V**, Diethrich E, Hynes N; Global MFM Collaborators. Endovascular management of chronic symptomatic aortic dissection with the Streamliner Multilayer Flow Modulator: Twelve-month outcomes from the global registry. J Vasc Surg. 2017 Apr;65(4):940-950. doi: 10.1016/j.jvs.2016.09.059. PubMed PMID: 28342521.

14. Vaislic CD, Fabiani JN, Chocron S, Robin J, **Costache VS**, Villemot JP, Alsac JM, Leprince PN, Unterseeh T, Portocarrero E, Glock Y, Rousseau H; STRATO Investigators Group. Three-Year Outcomes With the Multilayer Flow Modulator for Repair of Thoracoabdominal Aneurysms: A Follow-up Report From the STRATO Trial. J Endovasc Ther. 2016 Oct;23(5):762-72. doi: 10.1177/1526602816653095. Epub 2016 Jun 8. PubMed PMID: 27280802.

15. Sultan S, **Costache V**, Ciobanu E, Hynes N. Streamliner Multilayer Flow Modulator for subacute complicated type B dissection using the phantom technique. J Vasc Surg. 2016 Jun;63(6):1635-6. doi: 10.1016/j.jvs.2015.10.093. PubMed PMID: 27230245.

16. **Costache V**, *The Use of MFM in the Endovascular Treatment of Complex Aortic Aneurysms and Aortic Dissections*, Article reference: JICC298, Journal of Indian College of Cardiology, December, 2015

17. Sherif Sultan; **Costache V**; Ala Elhelali; Edel P. Kavanagh; Mohammed Sultan; Florian Stefanov; Violet Lundon; Niamh Hynes– " TCT-810 *"The Phantom Streamlinear" as a Therapeutic Option in the Management of Total Body Thoraco-abdominal Aortic Pathology[TAAA]. Early Results."* – Journal Of the American College of Cardiology; Peripheral Vascular Disease and Intervention; Volume 66, Issue 15_S, October 2015

18. Vaislic CD, Fabiani JN, Chocron S, Robin J, **Costache VS**, Villemot JP, Alsac JM, Leprince PN, Unterseeh T, Portocarrero E, Glock Y, Rousseau H; STRATO Investigators Group. One-year outcomes following repair of thoracoabdominal aneurysms with the multilayer flow modulator: report from the STRATO trial. J Endovasc Ther. 2014 Feb;21(1):85-95. doi: 10.1583/13-4553R.1. PubMed PMID: 24502488.

19. Chavanis N, Frieh JP, Bougon D, **Costache VS**. I shouldn't be alive: bone marrow biopsy. Eur J Cardiothorac Surg. 2013 Mar;43(3):653. doi: 10.1093/ejcts/ezs501. Epub 2012 Sep 17. PubMed PMID: 22986229.

20. **Costache V**, Gaudreau G, Houde C, Rodière M, Hacini R, Blin D, Chavanon O. The association of VAC® therapy, titanium plates osteosynthesis and bilateral pectoral muscle flaps in the management of postoperative mediastinitis in an obese and diabetic patient]. Ann Chir Plast Esthet. 2010 Dec;55(6):597-602. doi: 10.1016/j.anplas.2009.08.002. Epub 2009 Nov 25. French. PubMed PMID: 19942336.

21. Gaudreau G, **Costache V**, Houde C, Cloutier D, Montalin L, Voisine P, Baillot R. Recurrent sternal infection following treatment with negative pressure wound therapy and titanium transverse plate fixation. Eur J Cardiothorac Surg. 2010 Apr;37(4):888-92. doi: 10.1016/j.ejcts.2009.07.043. Epub 2009 Sep 22. PubMed PMID: 19775906.

22. **Costache V**, Chavanon O, St Raymond C, Sessa C, Durand M, Duret J, Bach V, Porcu P, Hacini R, Aubert A, Chaffanjon P, Cochet E, Brichon PY, Coltey B, Cracowski C, Bertrand D, Schwebel C, Barnoud D, Brambilla E, Lantuéjoul S, Ferretti G, Pin I, Blin D, Pison C; Grenoble Lung Transplantation Group. Dramatic improvement in survival after lung transplantation over time: a single center experience. Transplant Proc. 2009 Mar;41(2):687-91. doi: 10.1016/j.transproceed.2008.12.016. PubMed PMID: 19328957.

23. **Costache V**, Lantuejoul S, Stoica S, Fluttaz A, Hacini R, Brichon PY. Giant intracardiac neoplasic thrombus of a large cell neuroendocrine carcinoma of the lung. Cardiovasc Pathol. 2010 May-Jun;19(3):e85-7. doi: 10.1016/j.carpath.2008.10.010. Epub 2009 Jan 14. PubMed PMID: 19144545.

24. Porcu P, Chavanon O, Bertrand B, **Costache V**, Carley H, Bach V, Hacini R, Blin D. Giant aneurysm of the proximal segment of the left anterior descending artery in a patient with Behçet's disease--a combined approach. Can J Cardiol. 2008 Oct;24(10):e73-4. PubMed PMID: 18841264; PubMed Central PMCID: PMC2643166.

25. **Costache VS**, Chavanon O, Bouvaist H, Blin D. Early Amplatzer occluder closure of a postinfarct ventricular septal defect as a bridge to surgical procedure. Interact Cardiovasc Thorac Surg. 2007 Aug;6(4):503-4. Epub 2007 Apr 6.

26. Chavanon O, **Costache V**, Bach V, Kétata A, Durand M, Hacini R, Thony F, Blin D. Preoperative predictive factors for mortality in acute type A aortic dissection: an institutional report on 217 consecutives cases. Interact Cardiovasc Thorac Surg. 2007 Feb;6(1):43-6. Epub 2006 Oct 10. PubMed PMID: 17669765.

27. Sessa C, **Costache V**, Porcu P, Thony F, Blin D, Brichon PY, Magne JL. Tracheoinnominate artery fistula: combined endovascular and surgical management by emergency stent-graft placement followed by cryopreserved arterial allograft repair. Ann Vasc Surg. 2006 Nov;20(6):731-5. Epub 2006 Jul 8. PubMed PMID: 16830208.

28. **Costache V** Chavanon O, Thony F, Blin D. Aortic arch embolization of an Amplatzer occluder after an atrial septal defect closure: hybrid operative approach without circulatory arrest. Eur J Cardiothorac Surg. 2005 Aug;28(2):340-2. PubMed PMID: 15939606.

29. **Costache VS**, Renaud C, Brouchet L, Toma T, Le Balle F, Berjaud J, Dahan M. Complete tracheal rupture after a failed suicide attempt. Ann Thorac Surg. 2004 Apr;77(4):1422-3. PubMed PMID: 15063279.

30. Toma CP, Serban DN, **Costache V**, Branisteanu DD. Characteristics and possible mechanisms of low-Na+ induced contractions in rat aorta. Naunyn Schmiedebergs Arch Pharmacol. 1995 Jul;352(1):88-93. PubMed PMID: 7477430.

31. **Costache V** et al. I shouldn't be alive, bone marrow biopsy . European Journal of Cardio-Thoracic Surgery 0 (2012) 1–1.

32. **Costache V** et al. L'Ostéosynthèse sternale par plaques en titane (OSPT), indications et technique chirurgicale. Journal de Chirurgie Thoracique et Cardio-Vasculaire Vol 15, No. 2, (2010) 104-108.

33. **Costache V.**, Chavanon O, Blin D; Percutaneous closure of a postinfarct ventricular septal defect as a bridge to surgical closure. Interactive CardiovascularThoracic Surgery,8, 2007

34. V. Bach, O. Chavanon, C. Broux, S. Tramaille, D. Irles, **V. Costache**, F. Thony and D. Blin ; 'Prise en charge thérapeutique des ruptures traumatiques aiguës de l'isthme aortique. Revue bibliographique' ITBM-RBM, Volume 26, Supplement 1, September 2005, Pages S29-S34

35. JL Faucheron, **Costache V**, Chafanjon Ph ; 'Hernies oesophagiennes, conduite à tenir' Gastroenterologie Clinique, Octorber 2003

36. **Costache V.,** Toma C., Branisteanu D.D. (1994) ; "The effects of low-Na+ and ouabain on isolated rat aorta contractility" ; Eur. J. Cell Motility ; Sept.1994

Capitole în cărți de specialitate

1. Moldovan Horatiu, Costache Victor, Vasile Gabriel, Nechifor Elena, Costache Andreea, Gheorghita Daniela. Endarterectomia carotidiana: o abordare practica. Editura Hamangiu, 2020

2. Moldovan Horatiu, Molnar Adrian, **Costache Victor**, Bontas Ecaterina. "Infective Endocarditis in Intravenous Drug Users: Surgical Treatment". Infective Endocarditis, DOI: http://dx.doi.org/10.5772/intechopen.84708, Submitted: November 7th 2018Reviewed: January 24th 2019, Published: March 1st 2019

3. Moldovan Horatiu, Molnar Adrian, **Costache Victor**, Bontas Ecaterina. "Surgical Strategy in Tricuspid Endocarditis. Right Heart Pathology from Mechanism to Management". Editors: Silviu Ionel Dumitrescu, Ion C. Tintoiu, Malcolm John Underwood (eds.). ISBN 978-3-319-73763-8. DOI https://doi.org/10.1007/978-3-31973764-5 SPRINGER –March 2018, pp743-754.

4. **VS. Costache,** R. Popa, and S. Sultan. " Vascular Surgery in Romania" page 319, Vascular Surgery, Springer, 2017, ISBN 978-3-319-33743-2, DOI 10.1007/978-3-319-33-745-6.

5. **Victor S. Costache**, Horatiu Moldovan, Andreea Costache, Adrian Boiceanu, Adrian Santa, Dan-Mihai Dorobantu, Sherif Sultan. "*Treatment of complex aortic aneurysms and dissections with the Multilayer Flow Modulator: Romanian registry experience*". 2017 EDIZIONI MINERVA MEDICA, ISBN 978-88-7711-891-2.

6. **Costache V** et. All. "*Handbook of Interventions for Structural Heart and Peripheral Vascular Disease*"; page 348, chapter
22:" The Use of MFM in the Endovascular Treatment of Thoracoabdominal Aortic Aneurysm and Aortic Dissection";
Jaypee Brothers Medical Publishers (P) Ltd. ; 2016, ISBN: 978-93-5152-990-3

7. **Costache V**. "History of Myocardial protection, in Dawn and Evolution of Cardiac Procedures", Springer 2012 ISBN 97888-470-2399-4

8. **Costache V** . "Infection of mediastinal". Junimea 2010 ISBN 978-973-37-1459-0

9. **Costache V** . "Lung cancer" in; "Thoracic Surgery Course"; pp 69-93; ed. Alfa, ISBN 973-8278-00-7; Iasi in 2001.

10. **Costache V**. "Thoraco-abdominal aortic aneurysms Management". College of Vascular Surgery, Grenoble, December 2007.

11. **Costache V.** "Pericardium surgery". Heart and Thoracic Surgery College, Narbonne, October 2007.

12. **Costache V**. "Broken iliac aneurysm - the case", College of Vascular Surgery, Grenoble, Dec. 2006.

CONGRESE

1. **Costache VS**. "Role of MFM Uncovered Stents to treat type A aortic dissections: Indications, advantages, limitations and results". *VEITH Symposium, New York, USA, 19 – 23 November 2019*

2. **Costache V.S.** "Minimally invasive mitral valve repair, 2019 update ". *East Meets West 2019 Congress ISEVS*, Bucharest, Romania, 26-28 September 2019

3. **Costache V.S.** "Autosuturing technology for minimally invasive aortic valve replacement ". *East Meets West 2019 Congress ISEVS*, Bucharest, Romania, 26-28 September 2019

4. **Costache V.S.** "How I do it – Minimally invasive mitral valve replacement ". *East Meets West 2019 Congress ISEVS*,
Bucharest, Romania, 26-28 September 2019

5. **Costache S.V.** "NextCardio Project and Multilayer Stents Redefining the Management of Aortic Dissection". Society for
Clinical Vasculat Surgery – Boca Raton, 47th, Annual Symposium, March 16-20, 2019

6. **Costache S.V,** Stiru O, Yeung K, Costache A, Solomon C, Melnic T, Sandu M, White R, Wheatley G. "Multi-Layer Flow- modulating Stents for the Treatment of Thoracoabdominal Aortic Dissections". 55th Annual Meeting, Abstract Book, *The Society of Toracic Surgeons,* STS, San Diego, CA, USA, January 27-29 2019.

7. **Costache S.V**. "Mulilayer Flow Modulating (MFM) Stents Are A Safe And Effective Option For Treating Complex Type B
Aortic Dissections (TBADs): Based On A 4 Year Exapeience". *VEITHsymposium* , New York, USA, 13-17 November 2018

8. **Costache SV**. "Next Cardio – Introducing computational fluid dynamics in assessing the efficacy of aortic remodeling after TBAD". *East Meets West 2018 Congress ISEVS*, Romania, 4-6 October 2018

9. **Costache SV**. "Facilitators for minimal invasive aortic valve surgery". *East Meets West 2018 Congress ISEVS,* Romania, 4-6 October 2018

10. **Costache V.** "The role of multilayer flow modulator stents in the endovascular treatment of aortic dissection". The Society of Thoracic Surgery. *STS 54th Annual Meeting January 27, 2018* - January 31, 2018, Fort Lauderdale, Florida

11. **Costache S.V.**, D.M.Dorobanțu, C.Goia, A.Costache, A.Voican, A.Molnar. "Treatement of abdonimal aortic aneurysm with the bifurcated Streamliner device-results from NextCardio Vascular". *East Meets West Congress 2017*, Romania, 19-22 July 2017

12. **Costache S.V**, H.Moldovan, R.Niculescu, S.Balanescu, C.Spanu, D.Popescu, M.Craciun, S.Rurac, G.Vasile, A.Ionescu, T.Cebotaru, C.Popa, M.Militaru, A.Molnar. "Current approaches for complex aortic arch diseases – TEVAR. MFM and hybrid procedures vascular". *East Meets West Congress 2017*, Romania, 19-22 July 2017,

13. **Costache, S.V.**, Juan A. Siordia, Jr., Charles J. Lutz, Jude S. Sauer, Peter A. Knight. "First Two Mitral Valve Replacements via Right Lateral Mini Thoracotomy Using New Automated Annular Suturing Technology 17th The international Society for Minimally Invasive Cardiothoracic Surgery". *ISMICS Annual Scientific Meeting* – 7-10 June 2017 Rome, Italy. http://meetings.ismics.org/abstracts/2017/CMP3.cgi

14. **Costache S.V**, S.Sherif, N. Hynes, E.P.Kavanagh, F.Stefanov, A.Elhelali. "Twelve-Month Outcomes of patients treated for chronic symptomatic aortic dissection using the streamliner multilayer flow modulator". 53rd Annual Meeting, Abstract Book,The *Society of Toracic Surgeons - STS*, Houston, Texas, USA, January 21-25 2017

15. **Costache V.** "Updated experience treating aortic dissections and complex AAAs with MLFM Bare Stents- when do they work and when don't work". *VEITHsymposium*, Cleveland, OH, USA, November 2017,

16. **Costache S. V**. "Endovascular Treatement of Aortic Dissection – Results from NextCardio". International Congress of Endovascular Surgery. *CICE 2017, Sao Paulo, Brazilia* 5-8 aprilie

17. **Costache V.** "Updated experience treating aortic dissections and complex AAAs with MLFM uncovered stents". *VEITHsymposium*, Cleveland, OH, USA, 15-19 November 2016

18. **Costache V.** "Endovascular treatment of the aortic dissection - Kinetic elephant Trunk "– Price „Aurel Kaufmann" of the
Romanian Society of the Vascular Surgery – SRCV Second Congress of the SRCV, Sibiu, October 2016

19. **Costache V.** "Treatment Of Aortic Dissection And Complex TAAAs With The MLFM Stent: Experience In More Than 30
Patients". 43rd Annual Symposium on Vascular and Endovascular Issues, New York, NY, USA, 18 October 2015

20. **Costache V.** "The future looks bright – Multidisciplinary approach for lung resections in T4 disease with great vessel involvement" The 25th Annual Congress of Romanian Society for Radiotherapy and Medical Oncology, October 2015, Sibiu Romania, Supplement, Volume 21, 2015, ISSN 1844-0770

21. **Costache V.** "The total endovascular elephant trunk: the use of multilayer grafts in the endovascular treatment of aortic dissections". 11th National Congress of the Romanian Society of Cardiovascular Surgery, October 2015, Poiana Brașov, Romania

22. **Costache V.** "The use of multilayer stents in the endovascular treatment of complex aortic aneurysms and aortic dissections". 11th National Congress of the Romanian Society of Cardiovascular Surgery, October 2015, Poiana Brașov, Romania

23. **Costache V.** "Numerical simulation of fluid flow in CoCr multilayer modulators and the impact of flow lamination on the blood vessel wall affected by aneurism". European Biotechnology Congress May 2015 - Journal of Biotechnology

24. **Costache V.** "Treatment of Aortic Dissection And Complex TAAAs With The MLFM Stent: Experience In More Than 30
Patients" *VEITHsymposium,* 17-21 November 2015

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39. **Costache V.** "Brachiocephalic arterial trunk implantation of the heartbeat" College of Vascular Surgery, Grenoble, December 2004

40. Vouaillat H, **Costache V**. "*Reconstruction of Calcibon in thoracic spine trauma", Congres de la Societe francaise de Chirurgie Orthopedique et Traumatologieqie - SOFCOT* 2004

41. **Costache V.,** Faucheron JL. "*Pseudocyst pancreatic laparoscopic measures"*. Jurnale chirurgicale Lyon, February 2004

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46. **Costache V.** et al. " Study Methods contractility small vessels "; Iasi Student Scientific Conference, May 1995.

47. **Costache V.** et al. "The complications of laparoscopic cholecystectomy. A study of 350 cases.". Iasi Student Scientific Conference; May 1995.

48. Daraba R., **Costache V.** "Anatomical variations of facial nerve tract ". The International Congress of Students, Poland, May 1995.

49. **Costache V.,** Toma C., Branisteanu D.D. "Features and potential mechanisms of aortic contractility in rats induced by low levels of Na + ". Al XIV European Congress on Moss, Germany, Sept.1994.

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52. Szalontay A., **Costache V.** "Kidney Cancer Diagnostic Techniques"; Iasi Student Scientific Conference, May 1994.

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ACTIVITATE DE CERCETARE

Director granturi obținute prin competiție

2020 – 2022 Proiectul "Metode de diagnostic și tratament ale complicațiilor majore post implantare de valve transcateter, corelații clinice și CFD"
Proiect de cercetare – Grant de excelență Hasso Plattner, Universitatea Lucian Blaga Sibiu: LBUS-HPI-ERG-2020

2016 – 2020 Proiectul "Cercetare de noua generație prin asistența computerizată în managementul patologiilor cardiovasculare"
(NectCARDIO) POC-A1-A1.1-E-2015
http://nextcardio.ro/

2015 Proiectul "Saving Hearts: Innovative Methods and Techniques in Cardiovascular Disease Treatment"
2014-1-RO01-KA203-002970
http://savinghearts.eu/work-programme/

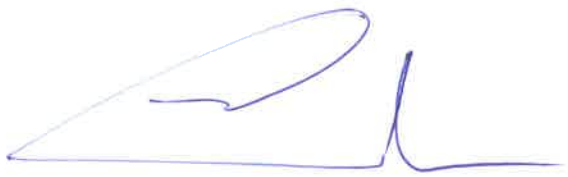
2014 – 2017 Proiectul "Erasmus Mundus Mobility with East Asia 2014" (EMMAE14)
545719-EM-1-2013-1-FR-ERA MUNDUS EMA21

2010 – 2013 STRATO Study

Responsabil partener granturi obținute prin competiție

2018 – 2019 Proiect "Educating students for developing high quality research skills (ENSURE), Norway"
EY-COP-0049
http://www.eea4edu.ro/despre-program/

2013 Proiectul European LLP – Leonardo da Vinci / Transfer of Innovation – "Orientare digitală: Software de consultanță personalizată în plasarea pe piața muncii și dezvoltarea carierei profesionale"

Brevete de invenţie şi alte titluri de proprietate intelectuală

2020 Simulatorului endovascular dedicat analizei fluxului sanguin intraluminal și a presiunii exercitate de acesta asupra peretelui vascular aortic, cu ajutorul sistemului Particle Image Velocimetry (PIV) la pacienții cu patologii aortice complexe (disecție de aortă și anevrism de aorta)