



PERSONAL INFORMATION

Name: Bruno Karl Podesser
Acad. Degrees: MD, MBA
Current Positions: Professor for Laboratory Animal Research ¹
Associate Professor of Surgery and Cardiac Surgery ²
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ACADEMIC MILESTONES AND POSITIONS

2024 Vice President, CSIA, Cardiac Surgery Intersociety Alliance
2022 Dr. honoris causa, Semmelweis University Budapest
2021– 2026 Adjunct Professor, Cape Heart Center, Cape Town University, SA
2014– present Professor for Laboratory Animal Research,
Director, Center for Biomedical Research and Translational
Surgery, Medical University of Vienna, Austria
2007 Visiting Professor (3 months) Brigham and Women’s Hospital
Boston, Harvard Medical School (Prof. Lawrence Cohn), USA
2006– present Board of Directors, Ludwig Boltzmann Institut for Cardiovascular
Research, Medical University of Vienna
2001– present Associate Professor of Surgery and Cardiac Surgery,
Medical University of Vienna: “Habilitation”
1998– present Staff Surgeon, Department of Cardiac Surgery, University Hospital
St. Poelten
1996– 1997 Max Kade Fellowship to the “Cardiac Muscle Research Lab”,
Boston University, USA (Prof. Carl Apstein)
1992– 1994 Vienna University of Economics & Business:
MBA Health Care Management (1997)
1991– 1996 Fellow at Department of Cardiothoracic Surgery, Medical
University of Vienna, Vienna General Hospital (Prof. Ernst Wolner)
1991 Austrian Science Fund Fellowship (3 months) at the Cardiac
Research Lab, PENN State, Hershey (Prof. William Pierce)
1984– 1991 MD degree, Medical Faculty, University of Vienna

RESEARCH ACHIEVEMENTS

Metrics:

214 peer-reviewed publications, h-factor 42, i10-index 113;
>1710 IP, citations: >5378, 1 book (editor), 8 book chapters; 4 patents;

Funding:

During the past 10 years, I obtained >6,5 Mio € in funding: Federal Ministry of Science, Research and Economy, Ludwig Boltzmann Research Foundation, EU Horizon2020 program and Austrian Science Funds, as well as from industry partners.

The 10 most relevant journal publications:

selected based on the following criteria: 1) relevance, 2) multi-disciplinary nature, and 3) prestige of Journal.

Making a difference: 5 years of Cardiac Surgery Intersociety Alliance (CSIA).

Bolman RM, Zilla P, Beyersdorf F, Boateng P, Bavaria J, Dearani J, Pomar J, Kumar S, Chotivatanapong T, Sliwa K, Eisele JL, Enumah Z, **Podesser BK**, Farkas EA, Kofidis T, Zühlke LJ, Higgins R. *J Thorac Cardiovasc Surg.* 2024 Oct;168(4):e104-e116. doi: 10.1016/j.jtcvs.2024.04.031. Epub 2024 Jun 10. PMID: 38864805

Influence of diabetes and obesity on ten-year outcomes after coronary artery bypass grafting in the arterial revascularisation trial.

Stefil M, Gaudino M, Benedetto U, Gerry S, Gray A, Lees B, **Podesser BK**, Krzych L, Sajja LR, Taggart D, Flather M; **ART Investigators**. *Clin Res Cardiol.* 2024 Nov;113(11):1515-1522. doi: 10.1007/s00392-023-02284-3. Epub 2023 Sep 23. PMID: 37741811 *Clinical Trial*.

Large and Small Animal Models of Heart Failure With Reduced Ejection Fraction. Pilz PM, Ward JE, Chang WT, Kiss A, Bateh E, Jha A, Fisch S, **Podesser BK**, Liao R. *Circ Res.* 2022 Jun 10;130(12):1888-1905.

Tenascin C promotes valvular remodeling in two large animal models of ischemic mitral regurgitation. Hamza O, Kiss A, Kramer AM, Trojanek S, Abraham D, Acar E, Nagel F, Tretter VE, Kitzwögerer M, **Podesser BK**. *Basic Res Cardiol.* 2020 Dec 1;115(6):76. doi: 10.1007/s00395-020-00837-5. PMID: 33258993.

St Thomas' Hospital polarizing blood cardioplegia improves hemodynamic recovery in a porcine model of cardiopulmonary bypass. Santer D, Kramer A, Kiss A, Aumayr K, Hackl M, Heber S, Chambers DJ, Hallström S, **Podesser BK**. *J Thorac Cardiovasc Surg.* 2019;158(6):1543-1554.e8.

Tenascin-C promotes chronic pressure overload-induced cardiac dysfunction, hypertrophy and myocardial fibrosis. **Podesser BK**, Kreibich M, Dzilic E, Santer D, Förster L, Trojanek S, Abraham D, Krššák M, Klein KU, Tretter EV, Kaun C, Wojta J, Kapeller B, Gonçalves IF, Trescher K, Kiss A. *J Hypertens.* 2018 Apr;36(4):847-856. doi: 10.1097/HJH.0000000000001628.

Randomized Trial of Bilateral versus Single Internal-Thoracic-Artery Grafts. Taggart DP, Altman DG, Gray AM, Lees B, Gerry S, Benedetto U, Flather M; **ART Investigators**. *N Engl J Med.* 2016 Dec 29;375(26):2540-9. doi: 10.1056/NEJMoa1610021. Epub 2016 Nov 14.

Influence of antithymocyte globulin treatment of brain-dead organ donor on inflammatory response in cardiac grafts: an experimental study in mice. Kremer J, Muschitz GK, Aumayr K, Moser P, Szabo G, Weymann A, Zuckermann A, **Podesser BK**. *Transpl Int.* 2016 Dec;29(12):1329-1336.

Short-term clinical outcomes for intermittent cold versus intermittent warm blood cardioplegia in 2200 adult cardiac surgery patients. Trescher K, Gleiss A, Boxleitner M, Dietl W, Kassal H, Holzinger C, **Podesser BK**. *J Cardiovasc Surg (Torino).* 2017 Feb;58(1):105-112. doi: 10.23736/S0021-9509.16.08525-X. Epub 2015 Feb 12.

Optimizing ischemia/reperfusion in the failing rat heart-improved myocardial protection with acute ACE inhibition. **Podesser, BK**; Schirnhöfer, J; Bernecker, OY; Kröner, A; Franz, M; Semsroth, S; Fellner, B; Neumüller, J; Hallström, S; Wolner, E; *Circulation*, 2002 106: 12 Suppl 1 pp. I277-I283. PMID: 12354746

Book: New solutions for the heart- an update in advanced perioperative protection.

Podesser BK and Chambers DJ editors. *Springer Verlag* 2011; ISBN 978-3-211-85547

Plenary, keynote, public and invited lectures (selection out of >70):

- 2024 Karolinska Institutet Stockholm: Remodeling under pressure overload
- 2024 Romanian Society of Pathophysiology, Timisoara: Future of animal research
- 2024 EACTS Innovation Summit, Paris: Innovation in infective endocarditis
- 2023 World Society of CV and Thoracic Surgeons, Iguazu: Myocardial protection
- 2022 New Frontiers in basic CV research Bratislava: ECM remodeling
- 2022 FCVB/ESC Meeting Budapest: The future of ischemic conditioning
- 2019 EACTS Meeting: All about myocardial protection and cardioplegia
- 2018 Stanford Cardiovasc. Institute: Tenascin C in pressure and volume overload
- 2018 Slovakian Academy of Science: Pressure and volume overload in rodents
- 2018 University Lecture; MedUni Wien: Cardiac Imaging in the 18th century
- 2018 COST Vienna: Long-term myocardial remodeling and conditioning
- 2017 World Congress CT Surg Astana: Myocardial protection in minimal-invasive surgery
- 2016 Cardiovascular Research Days Heidelberg: Remote ischemic conditioning
- 2015 European Society of Organ Transplant Brussels: How to optimize heart preservation
- 2015 University of Krakow: TNC and cardiovascular remodeling
- 2014 Cardiovascular Research Days Cortina: New aspects protecting the old heart
- 2013 Austrotransplant: Ischemia and reperfusion in the heart
- 2012 Master of valve Therapy Nyon: Which surgery in functional tricuspid Regurgitation?
- 2010 Medizinische Hochschule Hannover: Mitral Valve replacement – real risks?
- 2008 DACH Meeting Innsbruck: Myocardial protection in failing hearts.

Major scientific collaborations:

- Prof. D. Chambers, King's College London: large animal studies myocardial protection
- Prof. R. Liao, Stanford Medical School: postMI remodeling, student exchange
- Prof. Z. Papp, University of Debrecen: skinned myocyte in post-MI remodeling
- Prof. G. Fagian, University of Verona: student and PhD exchange program
- Prof. P. Ferdinandy, Semmelweis University: molecular mechanisms of ECM
- Prof. A. Zuckermann, Medical University of Vienna: brain death and transplantation
- Prof. S. Chlopizki, University of Krakow: endothelial dysfunction and NO donors
- Prof. M. Mayr, Imperial College London: NGS and cardiovascular molecular biomarkers
- Prof. G. Heusch, Essen University: myocardial protection and metabolism
- Prof. D. Hausenloy, Duke-NUS Medical School, Singapore: myocardial protection

PEER RECOGNITION

Fellowships and awards:

- 2022 Dr. honoris causa, Semmelweis University Budapest
- 2018 Helmut Denk Award, Austrian Society of Cardiac Surgery
- 2017 Helmut Denk Award, Austrian Society of Cardiac Surgery
- 2012 Carl Apstein Award, Austrian, German, Swiss Societies of Cardiothoracic Surgery
- 2008 Carl Apstein Award, Austrian, German, Swiss Societies of Cardiothoracic Surgery
- 2006 Best Abstract Award Austrian Society for Surgical Research
- 2005 Best Abstract Award, European Society of Cardiology
- 2004 Hancock Award, German Society of Cardiothoracic Surgery
- 2003 Billroth Award, Austrian Society of Surgery
- 2003 Basic Science Award, Austrian Society of Cardiology
- 2002 Innovation Award, European Society of Artificial Organs
- 2001 Best Abstract Award Austrian Society for Surgical Research

2000 Best Abstract Award Austrian Society for Surgical Research
1996 Max Kade Fellowship: Research Fellow at Boston University

Editor, editorial board member or reviewer:

2019– present Associate Editor J Cardiovascular Pharmacology and Therapeutics
2019– present Associate Editor European J Cardiothoracic Surgery
2014– present Associate Editor ESC Heart Failure
2014– 2018 Associate Editor Interactive Cardiovascular and Thoracic Surgery

2025– present Editorial Board Basic Research in Cardiology
2002– present Reviewer Cardiovascular Research
2001– present Reviewer Circulation

2014– present Dr. Theodor Körner Fonds (Austria)
2015– present Ethical board, AWS- Austrian Ministry of Finances
2015– present Mayor of Vienna Scientific Fonds (Austria)
2018– present Schweizerischer Nationalfonds
2014– present Swedish National Heart-Lung Foundation
2018– present Horizon Europe Framework

Memberships of scientific societies:

2023– present EACTS representative at the Cardiac Surgery Intersociety Alliance
2023– present Member EACTS Innovation Council Domain
2019– present Honorary member, Hungarian Society of Cardiology
2006– present Founder “Cardiovascular Research Days Network”
2002– present Austrian Society of Cardiology; Past President Experimental Cardiology
1996– present Member European Society of Cardiothoracic Surgeons (EACTS)
1995– present Board Member Austrian Society of Cardiac Surgeons
1993– present Austrian Society of Surgical Research; Past President, currently Secretary General

Institutional responsibilities at the Medical University of Vienna:

2017– 2023 Member of the Academic Senate, speaker of the professors
2014– 2021 Chair, Ethical Commission for Animal Research

TEACHING ACTIVITIES

Supervision of graduate students and postdoctoral fellows:

2002– present 16 completed PhD thesis, Medical University of Vienna
2 completed PhD thesis, University of Vienna
2005– present 3 completed PhD thesis, University of Verona, IT
2014– present 6 habilitations; Medical Universities of Vienna, Freiburg and Basel
2002– present 38 completed Master thesis, Medical University of Vienna

ORGANISATION OF SCIENTIFIC MEETINGS (president or secretary)


2024 19th Biannual meeting, Intern. Soc. Applied Vasc. Biology, Vienna
2024 11th Cardiovascular Research Days; Weissensee, Austria
2022 10th Cardiovascular Research Days; Krakow, Poland
2020 9th Cardiovascular Research Days; Weissensee, Austria
2018 1st Heart Team Winter Meeting, Zurs, Austria
2018 Europ. COST Initiative “Myocardial Protection CA16225”; Vienna
2018 8th Cardiovascular Research Days; Debrecen; Hungary

2016 7th Cardiovascular Research Days; Heidelberg; Germany
2014 6th Cardiovascular Research Days; Cortina; Italy
2012 5th Cardiovascular Research Days; Weissensee; Austria
2010 4th Cardiovascular Research Days; Weissensee; Austria
2008 3rd Cardiovascular Research Days; Weissensee; Austria
2007 2nd Cardiovascular Research Days; Weissensee; Austria
2006 1st Cardiovascular Research Days; Weissensee; Austria
2006 Annual Meeting, Austrian Society of Surgical Research, Gosau
1998 Austrotransplant, Austrian Society of Transplantation, Vienna
1996 2nd Congress of Austrian, German and Swiss Societies of
Cardiothoracic- and Vascular Surgery; Vienna

LANGUAGE SKILLS

Native: German
Proficient: English
Spanish
French

Vienna, 19th January 2025



Dr. Bruno Podessesy