

| Curriculum Vitae | |
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| Bruno Karl Podesser, Prof. Dr. | |
| Address: Center for Biomedical Research, Medical University of Vienna, Währinger Gürtel 18-20, 1090 Vienna, Austria Bruno.podesser@meduniwien.ac.at | |
| Personal Data | |
| Date of Birth: | 21 st December 1964 |
| Place of Birth: | Lienz |
| Nationality | Austria |
| Education | |
| 1984-1991 | Medical School, University of Vienna Graduation 13 th March 1991 |
| 1983-1984 | Military service |
| 1976-1983 | Grammar School in Lienz, Austria |
| Career History | |
| Since 1 st Oct 2014 | Professor for Laboratory Animal and Biomedical Research, Head, Center for Biomedical Research, Medical University of Vienna, Austria |
| June/July 2007 | Visiting Professor, Brigham and Women's Hospital, Harvard Medical University |
| Since 1 st October 2006 | Director, Ludwig Boltzmann Cluster for Cardiovascular Research, Medical University of Vienna |
| Since 1 st October 2005 | Visiting Professor, University of Verona (IT) and University of Krakow (PL) |
| Since 1 st October 2001 | Associate Professor of Surgery and Cardiac Surgery, Medical University of Vienna |
| 26 th September 2001 | "Habilitation" in Surgery at the Medical University of Vienna |
| Since 1 st October 1998 | Attending/Staff Surgeon, Dept. Cardiac Surgery, Universitätsklinikum St. Pölten, Austria |
| 1996-1997 | Fellow at the Cardiac Muscle Research Lab, Boston University Max Kade Fellowship |
| 1991-1998 | Fellow at Dept. Cardiothoracic Surgery, Medical University of Vienna |
| May/June 1991 | Postdoc at the PENN State University, Austrian Science Fond Fellowship |
| Main research areas | Basic: Remodelling, Extracellular Matrix, Heart Failure, Myocardial protection Clinical: Extracorporeal circulation, Myocardial protection Aortic Valve Surgery: Long-term follow-up, rapid deployment valves and TAVI Mitral Valve Surgery: Minimal-invasive techniques, Endocarditis Total IMPACT Points: 250 |
| Scientific awards | Apstein Prize 2006, 2007, 2008, 2010 (Cardiovascular Research Days; D-A-CH Societies of Cardiothorac Surgery and Cardiology) Hancock Prize 2004 (German Society for Cardiothorac. Surgery) Billroth Prize 2003 (Austrian Society of Surgery) |

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| | Innovation Award 2002 (ESAO) |
| Third party funding | 2014-2016: AWS (Austria Wirtschaftsservice)- START project: „Defibrillation threshold in humans“ |
| | 2009-2016: Ludwig Boltzmann Society: “Remodeling after myocardial infarction- impact on ECM” |
| | 2010-2011: AWS (Austria Wirtschaftsservice) – PRIZE project: „Pharmaceutical preparations comprising a COS releasing compound” |
| | 2002-2004: Mayor of Vienna Fund: “Prolonged ischemic tolerance with NO” |
| | 2001-2004: Austrian Science Fund: P15194-B11 “Improvement of cardiac transplantation by NO” |
| | 1996-1997: Max Kade Foundation: US Fellowship |
| | 1991: Austrian Science Fund: P7632 “Isolated Heart” |

List of publications in the last 5 years (2011 – present):

Bergmeister K, **Podesser B**. Acceptance of animal research in our science community. *F1000Res*. 2016 Mar 4;5:282. doi: 10.12688/f1000research.8169.1. eCollection 2016.

Enayati M, Eilenberg M, Grasl C, Riedl P, Kaun C, Messner B, Walter I, Liska R, Schima H, Wojta J, **Podesser BK**, Bergmeister H. Biocompatibility Assessment of a New Biodegradable Vascular Graft via In Vitro Co-culture Approaches and In Vivo Model. *Ann Biomed Eng*. 2016 Apr 7. [Epub ahead of print]

Santer D, Nagel F, Kreibich M, Dzilic E, Moser PT, Muschitz G, Inci M, Krssak M, Plasenzotti R, Bergmeister H, Trescher K, **Podesser BK**. In vivo and ex vivo functional characterization of left ventricular remodelling after myocardial infarction in mice. *ESC Heart Failure* (2015) Published online DOI: 10.1002/ehf2.12039

Trescher K, Gleiss A, Boxleitner M, Dietl W, Kassal H, Holzinger C, **Podesser BK**. Short-term clinical outcomes between intermittent cold versus intermittent warm blood cardioplegia in 2200 adult cardiac surgery patients. *J Cardiovasc Surg (Torino)*. 2015 Feb 12. [Epub ahead of print]. PMID: 25673099

Rungatscher A, Hallström S, Linardi D, Milani E, Gasser H, **Podesser BK**, Scarabelli TM, Luciani GB, Faggian G. S-nitroso human serum albumin attenuates pulmonary hypertension, improves right ventricular-arterial coupling, and reduces oxidative stress in a chronic right ventricle volume overload model. *J Heart Lung Transplant*. 2015 Mar;34(3):479-88.

Trescher K, Dzilic E, Kreibich M, Gasser H, Aumayr K, Kerjaschki D, Pelzmann B, Hallström S, **Podesser BK**: The nitric oxide donor, S-nitroso human serum albumin, as an adjunct to HTK-N cardioplegia improves protection during cardioplegic arrest after myocardial infarction in rats. *Interact Cardiovasc Thorac Surg*. 2015 Mar;20(3):387-94.

Lichtenauer M, Schreiber C, Jung C, Beer L, Mangold A, Gyöngyösi M, **Podesser BK**, Ankersmit HJ. Myocardial infarct size measurement using geometric angle calculation. *Eur J Clin Invest*. 2014 Feb;44(2):160-7

Balogh A, Santer D, Pasztor T, Toth A, Czuriga D, **Podesser BK**, Trescher K, Jaquet K, Erdo di F, Edes I, Papp Z: Myofilament protein carbonylation contributes to the contractile dysfunction in the infarcted LV region of mouse hearts. *Cardiovasc Res* 2014; 101: 108–119.

Trescher K, Thometich B, Demyanets S, Kassal H, Sedivy H, Bittner R, Holzinger Ch, **Podesser BK**. Type A dissection and chronic dilatation: tenascin-C as a key factor in destabilization of the aortic wall. *Interactive Cardiovasc and Thoracic Surgery* 2013; 17: 365-70.

Lichtenauer M, Mildner M, Werba M, Beer L, Hoetzenecker K, Baumgartner A, Hasun M, Nickl S, Mitterbauer S, Zimmermann M, Gyöngyösi M, **Podesser BK**, Klepetko W, Ankersmit J. Anti-Thymocyte Globulin Induces Neoangiogenesis and Preserves Cardiac Function after Experimental Myocardial Infarction. *PLoS ONE* 2012; 7: e52101.

Plass, CA; Loew, HG; **Podesser, BK**; Prusa, AM; Light-induced vasodilation of coronary arteries and its possible clinical implication. *Ann Thorac Surg*, 2012 93: 4 pp.1181-1186.

Liao, R; **Podesser, BK**; Lim, CC; The Continuing Evolution of the Langendorff and Ejecting Murine Heart: New Advances in Cardiac Phenotyping. *Am J Physiol Heart Circ Physiol*, 2012 303: H156–H167.

Lichtenauer, M; Mildner, M; Hoetzenecker, K; Zimmermann, M; **Podesser, BK**; Sipos, W; Berényi, E; Dworschak, M; Tschachler, E; Gyöngyösi, M; Ankersmit, HJ; : Secretome of apoptotic peripheral blood cells (APOSEC) confers cytoprotection to cardiomyocytes and inhibits tissue remodelling after acute myocardial infarction: a preclinical study. *Basic Res Cardiol*, 2011 106: 6 pp.1283-1297.

Lichtenauer, M; Mildner, M; Baumgartner, A; Hasun, M; Werba, G; Beer, L; Altmann, P; Roth, G; Gyöngyösi, M; Podesser, BK; Ankersmit, HJ; Intravenous and intramyocardial injection of apoptotic white blood cell suspensions prevents ventricular remodelling by increasing elastin expression in cardiac scar tissue after myocardial infarction. *Basic Res Cardiol*, 2011 106: 4 pp.64-55.

Holzinger, C; **Podesser, BK**; Lomoschitz, F; Kassal, H; : Idiopathic pulmonary artery aneurysm. *J Card Surg*, 2011 26: 2 pp.154-156.

10 most important publications:

1) Trescher K, Gleiss A, Boxleitner M, Dietl W, Kassal H, Holzinger C, **Podesser BK**. Short-term clinical outcomes between intermittent cold versus intermittent warm blood cardioplegia in 2200 adult cardiac surgery patients. *J Cardiovasc Surg (Torino)*. 2015 Feb 12. [Epub ahead of print]. PMID: 25673099

2) Balogh A, Santer D, Pasztor T, Toth A, Czuriga D, **Podesser BK**, Trescher K, Jaquet K, Erdo' di F, É des I, Papp Z: Myofilament protein carbonylation contributes to the contractile dysfunction in the infarcted LV region of mouse hearts. *Cardiovasc Res* 2014; 101, 108–119.

3) Liao, R; **Podesser, BK**; Lim, CC; The Continuing Evolution of the Langendorff and Ejecting Murine Heart: New Advances in Cardiac Phenotyping. *Am J Physiol Heart Circ Physiol*, 2012 303: H156–H167.

4) Pomper, G; Trescher, K; Santer, D; Hasun, M; Baumgartner, A; Adelman, K; Inci, M; Dietl, W; Zuckermann, AO; **Podesser, BK**; Introducing a mouse model of brain death. *J Neurosci Methods*, 2010 192: 1 pp.70-74.

5) Ankersmit, HJ; Hoetzenecker, K; Dietl, W; Soleiman, A; Horvat, R; Wolfsberger, M; Gerner, C; Hacker, S; Mildner, M; Moser, B; Lichtenauer, M; **Podesser, BK**; Irradiated cultured apoptotic peripheral blood mononuclear cells regenerate infarcted myocardium. *Eur J Clin Invest*, 2009 39: 6 pp.44-56.

6) **Podesser, BK**; Hallström, S; Nitric oxide homeostasis as a target for drug additives to cardioplegia. *Br J Pharmacol*, 2007 151: 7 pp.93-40.

7) Hallström, S; Franz, M; Gasser, H; Vodrazka, M; Semsroth, S; Losert, UM; Haisjackl, M; **Podesser, BK**; Malinski, T; S-nitroso human serum albumin reduces ischaemia/reperfusion injury in the pig heart after unprotected warm ischaemia. *Cardiovasc Res*, 2008 77: 3 pp.506-514.

8) Semsroth, S; Fellner, B; Trescher, K; Bernecker, OY; Kalinowski, L; Gasser, H; Hallström, S; Malinski, T; **Podesser, BK**; S-nitroso human serum albumin attenuates ischemia/reperfusion injury after cardioplegic arrest in isolated rabbit hearts. *J Heart Lung Transplant*, 2005 24: 12 pp.2226-2234.

9) Trescher, K; Bernecker, O; Fellner, B; Gyöngyösi, M; Krieger, S; Demartin, R; Wolner, E; **Podesser, BK**; Adenovirus-mediated overexpression of inhibitor kappa B-alpha attenuates postinfarct remodeling in the rat heart. *Eur J Cardiothorac Surg*, 2004 26: 5 pp.960-967.

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

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

B.K.Podesser and D.J.Chambers editors. Springer Verlag 2011; ISBN 978-3-211-85547-8