

Christof Stamm, MD

Christof Stamm, MD, is staff surgeon at the German Heart Institute Berlin. Surgically, he trained in Munich, Göttingen, and Rostock (Germany), where he was appointed assistant professor of cardiac surgery in 2003. His scientific training includes research fellowships at the National Heart & Lung Institute in London, UK, and at Children's Hospital Boston/Harvard University, USA. Dr. Stamm's group has pioneered the clinical application of bone marrow stem cells in cardiac surgical patients. His basic and clinical research activities focus on cell therapy and tissue engineering approaches for treatment of patients with severe ischemic heart disease.

CURRICULUM VITAE

CHRISTOF STAMM, MD

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MEDICAL STUDIES:

1986 - 89 Preclinical sciences: Julius-Maximilians-University of Würzburg (Germany)

1989 - 90: Voluntary Health Worker in East Africa: Karima (Sudan)

Lindi (Tanzania), Nkhata Bay (Malawi)

1990 - 93 Clinical Studies: Julius-Maximilians-University, Würzburg (Germany)

Universität Zürich (Switzerland)
University of the Witwatersrand, Johannesburg (South Africa)

POSTGRADUATE:

1994	Doctoral Thesis (Doctor medicinae), Julius-Maximilians-University, Würzburg
1995	Federal Medical License – (Bayerisches Innenministerium, München, #36829)
2003	Professoral Thesis Assistant Professorship in Cardiac Surgery University of Rostock

SURGICAL TRAINING:

1993 - 94	Internship, German Heart Center Munich, Dept. of Cardiovascular Surgery
1995 - 98	Residency, Dept. of Thoracic-, Cardiac-, and Vascular Surgery, Georg-August Univ. Göttingen
2001 - 03	Residency - Fellowship, Dept. of Cardiac Surgery, University of Rostock
2003	Board certification in cardiac surgery
2004 - 05	Attending surgeon, Dept. of Cardiac Surgery, University of Rostock
2006 -	Attending surgeon, German Heart Institute Berlin

RESEARCH POSITIONS:

1992 - 94	Doctoral Student: "Metabolism and cytotoxic effects of halogenated carbohydrates in isolated proximal renal tubular epithelial cells" Dept. of Toxicology, University of Würzburg
1996 - 97	National Heart & Lung Institute at Imperial College, London (UK): Visiting fellow in Pediatric Cardiac Morphology
1998 - 01	Children's Hospital Boston, Harvard Medical School, Boston (USA): Research fellow in Cardiac Surgery
2002 - 05	Head of the federal-funded junior research group "Cardiovascular gene expression and tissue engineering", NWG 7 (NBL3), University of Rostock
2003 - 05	Head of the junior research project "Tissue engineering of cardiac conduction tissue for treatment of bradyarrhythmia", NW10 (NBL3), University of Rostock
2005	Coordinator of the junior research group "Targeted manipulation of intravascular stem cell adhesion for development of novel strategies for myocardial and vascular regeneration", funded by the state of Mecklenburg-Vorpommern
2006 -	Coordinator "RegMed@DHZB" – Initiative for Regenerative Medicine at the German Heart Institute Berlin

TEACHING POSITIONS:

1995 - 98	Instructor in general and surgical physical examination (2nd year medical students), University of Göttingen (Germany)
1997 - 98	Instructor in vascular & cardiothoracic surgery (5th and 6th year medical students), University of Göttingen (Germany)
2001 - 03	Tutor: Hands-on course in cardiac morphology, Imperial College School of Medicine, National Heart & Lung Institute, London (UK)
2003 -	Lecturer: Hands-on course in cardiac morphology, Imperial College School of Medicine, National Heart & Lung Institute, London (UK)
2002 - 05	Lecturer: Surgical anatomy and treatment concepts of congenital heart defects. University of Rostock
2004 - 05	Seminar: Bench-to-Bedside: Scientific Strategies in Cardiac Surgery. University of Rostock
2004 - 05	Seminar: Stem Cell Therapy for Treatment of Heart Disease. University of Rostock
2006 -	Seminar: Concepts in Adult Cardiac Surgery. Charité Medical University, Berlin

STIPENDS AND AWARDS:

4/1996	Travel fellowship of the German Research Foundation - DFG, (STA 497/1-1) "Structural
	changes of the tricuspid valve in hypoplastic left heart syndrome".

4/1998 Research scholarship of the German Research Foundation (DFG), (STA 497/2-1) "The role of protein kinase C in regulation of contractility and calcium sensitivity of contractile proteins during myocardial ischemia and reperfusion".

1999 William W. L. Glenn Lecture, Featured Research Presentation. *Long-term results of surgery for Supravalvar Aortic Stenosis*. 72nd Scientific Session of the American Heart Association

11/2001 Vivien Thomas Young Investigator Award Finalist. American Heart Association, Cardio-Thoracic and Vascular Surgery Council. "Dopamine-treatment of postischemic myocardial stunning rapidly induces calcium-dependant pro-apoptotic signaling"

2/2003 Ernst-Derra Award of the German Society for Thoracic and Cardiovascular Surgery. "Intracellular calcium handling in myocardial ischemia, reperfusion, and inflammation"

AWARDS TO JUNIOR GROUP MEMBERS:

2/2005 Ma Nan, PhD: Hancock Prize of the German Society for Thoracic and Cardiovascular Sugery "Human cord blood cells attenuate post-infarct remodelling processes in NOD/scid-mice"

6/2005 Yeong-Hoon Choi, MD: Wilhelm P. Winterfeld Award of the German Heart Foundation "Cardiac conduction through engineered tissue"

2/2006 Alexander Kaminski: Ulrich Karsten Foundation Prize 2006 "Influence of endothelial nitric oxide synthase on SDF-1/TNF-alpha mediated stem cell homing in vivo"

RESEARCH FUNDING:

1996	German Research Association (DFG) travel grant STA 495/1	€ 4.000,-
1998	DFG scholarship STA 495/2-1	€ 30.000,-
1999	DFG scholarship STA 495/2-2	€ 30.000,-
2001	NIH 5R01HL046207 (PI: Pedro J. del Nido)	€ 220.000,-
2002-04	German Minister of Economy (BMBF)	
	NBL3 (NWG7 & NW10)	
	Junior research group 7 & Young investigator 10	€ 400.000,-
2002-03	Intramural grant FORUN	€ 51.000,-
2005	NBL3 NWG7 BMBF termination support	€ 80.000,-
	NW10 intramural continuation	€ 35.000,-

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2005 - 07 State-wide Research Focus "Regenerative Medicine",

Junior Research Group € 1.271.758,-

2005 – 2008 BMBF call "Cell-based regenerative medicine"

START-MSC Project € 154.000,-

Total: € 2.275.758,-

applications in review: EU STREProject "Exploring the potential of Bioreactor

Expanded Cord Blood Stem Cells for Myocardial repair" € 695 363,-SFB Transregio "Micro- und Nanotechnology" € 680 000,-

DOCTORAL THESIS TUTORING:

cand. med. Matthias Worm Cardiac surgery in patients with terminal renal failure cand, med. Nadine Treckmann Biopolymer/Matrix Hybridmaterials: in vivo Biocompatibility cand. med. Anne Drechsel Biopolymer/Matrix Hybridmaterials: in vitro Biocompatibility cand. med. Mark Phillip Heart valve tissue engineering: in vitro fluid-dynamic testing cand. med. Jan-Arne Lauffs Clinical Stem cell transplantation for myokcrdial regeneration Gene therapy methods for myocardial stem cell trafficking cand. med. Katharina Nesselmann cand. med. Claudia Peller Neurocognitive deficits following Heart valve replacement cand. med. Ferenc Ory Genetic modification of tissue engineering heart valves

MEMBERSHIPS:

Deutsche Gesellschaft für Thorax-, Herz- und Gefäßchirurgie American Heart Association, Cardio-Thoracic and Vascular Surgery Council European Association for Cardiothoracic Surgery Universitätsbund Würzburg Imperial College of Science and Medicine, University of London, Alumni Association International Society for Cellular Therapy

JOURNAL PEER REVIEWS: Cardiovascular Research

Annals of Thoracic Surgery Bone Marrow Transplantation

Chest

Journal of Thoracic and Cardiovascular Surgery

Heart and Vessels Stem Cells

Tissue Engineering

INDUSTRY POSITIONS:

2000 - 01: Consultant to Procter & Gamble Pharmaceuticals, Cinncinatti, USA

Organization of European multicenter trials studying the effects of selective complement inhibitors (C5 inhibitors) after cardiopulmonary bypass and myocardial ischemia

ORGANIZATION OF MEETINGS & CONFERENCES:

8/2001	Baltic Summeracademy 2001, Rostock-Warnemünde
6/2002	Baltic Stem Cell Conference. Burg Schlitz, Hohen Demzin
8/2002	Baltic Summeracademy 2002 (Intensive Care in Cardiac Surgery) Rostock-Warnemünde
8/2003	New Developments in Pediatric Cardiac Surgery, Rostock-Warnemünde
10/2003	Workshop der NBL3 Forschergruppen, Rostock
8/2005	Baltic Stem Cell Conference 2005

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PUBLICATIONS:

Original papers: 58 Review papers: 10 Book chapters: 7 Published Abstracts: 88 Invited Presentations: 85 Abstract presentations given: 50 Abstract presentations authored: 62 Misc.: 5

Berlin, 31 May 2006