

## Prof. Dr. rer. nat. et med. habil. Förster, Carola

Name: Förster, Carola Yvette Charlotte

### Scientific Background

- Since 2009- Associate-Professorship (W2) Molecular Medicine,  
Head of Division Basic Research  
Head of Bioinformatics Unit (Virtual Screen Lab)  
Department of Anaesthesia and Critical Care, University Hospital  
Würzburg  
Research project leader, Comprehensive Heart Failure Center  
(CHFC), Medical Faculty, University Hospital Würzburg
- Since 7/2008- Head of Division Basic Research, Department of Anaesthesiology  
and Critical Care, Medical Faculty, University Hospital Würzburg
- 7/2008-6/2009 Adj. Professor Molecular Medicine, Head of research division  
Molecular Medicine, Department of Anaesthesiology and Critical  
Care, Medical Faculty, University Hospital Würzburg
- 5/2007-6/2008 Adj. Professor Cell biology and Histopathology  
Medical Faculty, University Würzburg, Team Leader of the Rese-  
arch Group Vascular Cell Biology, Institute of Anatomy und Cell  
Biology II, University Würzburg
- 2007 Lecture Qualification (Habilitation) for Histology and Cell Biology:  
Genomic steroid action in cellular differentiation processes  
Acquirement: Facultas docendi 23.04.2007  
Conferment: Venia legendi 11.06.2007
- 6/2003-5/2007 Assistant Professor Medical Faculty, University Würzburg, Team  
Leader of the Research Group Vascular Cell Biology, Institute of  
Anatomy und Cell Biology II University Würzburg (AG Prof. Dr.  
Drenckhahn)
- 7/2000-5/2003 Visiting Scientist, Department of Medical Nutrition, Karolinska  
Institute Stockholm, Sweden (AG Prof. Dr. J.-A. Gustafsson),
- 5/1999-6/2000 Post Doctoral Fellow, Department of Biochemistry and Molecular  
Biology Upstate Medical University, Syracuse, NY, USA (AG Prof.  
Dr. R. Cross)

### Education

- 1/1999 PhD-Degree, summa cum laude
- 3/1996-1/1999 PhD-Thesis, Leibniz-University of Hannover

- 3/1996 -1/1999 Graduate studies conducted in Institute of Biotechnology, Research Centre Jülich, Institute of Biochemistry, University of Cologne, Departamento Microbiología y Genética, University Salamanca, Spain, SF AG, Section Mikrobial Synthesis
- 28.02.1996 Diploma in Biochemistry, Leibniz-University of Hannover
- 6/1995-2/1996 Diploma Thesis, Institut für Biologische Informationsverarbeitung, Research Centre Jülich, Research Group: Prof. U. B. Kaupp
- 1/1995-5/1995 Study abroad, Biochemistry College Major program, College of Arts and Science, New York University School of Medicine, USA
- 1/1994-5/1994 Study abroad. Biología Celular y Molecular – Curso Master universitario, Universidad de Salamanca, Spain
- 10/1990-1/1996 Studies of Biochemistry (Dipl.), Medizinische Hochschule Hannover, Leibniz-University of Hannover

### Scientific focus

Cardiovascular Biology:

- ▶ Endothelium, vascular biology and inflammatory mechanisms
- ▶ Role of the cerebrovascular system in etiology and therapy of neurodegenerative, neuroinflammatory and metabolic diseases
- ▶ Role of the cerebrovascular system in the etiology and therapy of age-associated diseases

### Special qualifications

- 03/2015 Cold Spring Harbour course „Systems biology – networks“
- since 03/2010 Project Leader for Genetic Tasks, according to. §15 GenTSV, Department of Anaesthesia and Critical Care, University Hospital Würzburg
- 13.03.2008 Skill Enhancement: Organization and Security and Health Protection in Biological Laboratories University Würzburg
- 6/2006-6/2008 Project Leader for Genetic Tasks, according to. §15 GenTSV, Institute for Anatomy und Cell Biology University Würzburg
- 6/2006-6/2008 Radiation Protection Officer, according to. §31 As.2 StrlSchV, Institute for Anatomy und Cell Biology, University Würzburg
- 31.05.2006 Certification on Requisite Qualification on Radiation Protection
- 2/2002 Advanced Course Confocal Laser Scanning Microscopy  
Live cell microscopy, FRAP, FRET, Caging  
Leica Microsystems AB, Stockholm, Sweden
- 12/2001 KISAC Bioinformatics Course:  
Benefit of common Data Bases for bio-informational  
Analyses: EMBL, Swissprot and TREMBL, Pfam, etc.  
Centre for Genomics Research/CGR, Karolinska Institute,

	Stockholm, Sweden
6/2001	EMBO-Course Imaging in living cells Confocal Microscopy, Ca <sup>2+</sup> Imaging. Atomic-Force Microscopy AFM University College London, UK
04/2001	Animal Protection Course, FELASA Category C: Planning and Execution of Animal Experiments, Keeping of Animals Anaesthesia, Analgesics, Experimental Procedure, Karolinska Institute, Stockholm, Sweden
15.03.1994	Confirmation on Skill Enhancement Biological Security

#### **Academic stay abroad**

7/2000-4/2003	Visiting Scientist Department of Medical Nutrition, Karolinska Institute, NOVUM, Stockholm, Sweden, EU-Scholarship Marie Curie MCFI-2000-01758
5/1999-6/2000	Post Doctoral Fellow Department of Biochemistry and Molecular Biology, Upstate Medical University, Syracuse, NY, USA, DFG-Scholarship Fo315/1-1
1/1998-3/1998	Research Project during PhD-thesis Universidad de Salamanca, Departamento de Microbiología y Genética, Spain
1/1995-5/1995	Study abroad, Biochemistry College Major program, College of Arts and Science, New York University School of Medicine, USA

#### **Academic awards**

2018	Teaching Award by the University of Würzburg for special achievements in teaching
2017	Participant in Human Brain Project (Horizon 2020)
2017	Organizing Committee Member for 23rd World Cardiology Conference 2018 in Dubai, UAE
2017	Workshop-Organizer for World Heart Congress 2017 in Osaka, Japan. Topic: „MicroRNA in cardiovascular disorders“
Since 2016	Member of the Graduate School of Life Sciences, University of Würzburg
2014	Evaluator for „Horizon 2020 research and innovation programme“ of the European Commission
2013	Reviewer Baden-Württemberg Stiftung, Call: Bio-inspired Material-synthesis
2012/2013	Lead Guest Editor Special issue Intl. J. of Endocrinology

2011/2012	Lead Guest Editor Special issue Intl. J. of Cell Biology
2011-	Development and Leader of Department Bioinformatics (Virtual-Screen Lab) at Department of Anaesthesia and Critical Care, University Hospital Würzburg
2/2010	Candidate for Alfried-Krupp-Award for young university lecturers
2009-2013	Award of the BMBF Program for Women Professors
since 11/2009	Reviewer of the Medical Research Council, MRC London, UK
since 10/2009	Reviewer of the Deutsche Forschungsgemeinschaft, DFG
2007	Ranking # 3 Ingrid zu Solms Scientific Award to the development of Female Academic Elites
1999	PhD Award, Association for General and Applied Microbiology
1999	PhD Thesis "summa cum laude"

#### **Membership in societies**

- ▶ Association for applied Microbiology
- ▶ Comprehensive Heart Failure Centre (CHFC) Würzburg
- ▶ Economy Club Rhein-Main e.V.
- ▶ European Society for Microcirculation
- ▶ German Anatomical Society
- ▶ German Association of Biological Chemistry
- ▶ German Hochschulverband
- ▶ German Society of Anaesthesia and Critical Care
- ▶ German Society of Microcirculation and Vascular Biology
- ▶ IBBS-International Brain Barrier Society
- ▶ Interdisciplinary Centre of Clinical Research of the University of Würzburg (IZKF)
- ▶ Karolinska Institute Junior faculty programme