

# CURRICULUM VITAE

## PERSONAL INFORMATION

NAME | Priv.-Doz. Dr. Michael Potente  
NATIONALITY | German  
OFFICE | Angiogenesis & Metabolism Laboratory  
Max Planck Institute for Heart and Lung Research  
Ludwigstr. 43, D-61231 Bad Nauheim, Germany  
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## ACADEMIC EDUCATION

09/1998 – 04/2003 Experimental doctoral thesis (MD student), Goethe-University, Frankfurt, Germany  
10/1996 – 12/2002 Studies of Medicine, Goethe-University Frankfurt, Germany and University of Toronto, Toronto, ON, Canada

## SCIENTIFIC DEGREES

HABILITATION | Department of Internal Medicine III, Cardiology, Goethe-University, Frankfurt, Germany 06/2013  
SPECIALIST EXAM | Internal Medicine and Cardiology, Department of Internal Medicine III, Cardiology, Goethe-University, Frankfurt, Germany, 09/2011  
MD THESIS | Department of Cardiovascular Physiology, Goethe-University, Frankfurt, Germany, Supervisor: Prof. Dr. R. Busse, 04/2003 (Grade: *summa cum laude*)

## PROFESSIONAL CAREER

10/2016 – present Berlin Institute of Health (BIH) Visiting Professor, Max Delbrueck Center, Berlin Germany  
12/2012 – present Max Planck Research Group Leader, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany  
12/2012 – present Consultant Cardiologist, Department of Internal Medicine III, Cardiology, Goethe-University, Frankfurt, Germany  
10/2011 – 11/2012 Senior Physician, Department of Internal Medicine III, Cardiology, Goethe-University, Frankfurt, Germany  
07/2004 – 09/2011 Resident, Department of Internal Medicine III, Cardiology (Prof. Dr. A.M. Zeiher), Goethe-University, Frankfurt, Germany  
05/2003 – 07/2007 Postdoctoral Training, Institute of Cardiovascular Regeneration (Prof. Dr. S. Dimmeler), Centre for Molecular Medicine, Goethe-University, Frankfurt, Germany

01/2003 – 06/2004 Intern, Department of Internal Medicine III (Prof. Dr. A.M. Zeiher),  
Cardiology, Goethe-University, Frankfurt, Germany

### **AWARDS & HONOURS**

- 2017 European Research Council (ERC) Consolidator Grant
- 2016 Galenus-von-Pergamon Award
- 2016 Berlin Institute of Health (BIH) Visiting Professor, Max Delbrueck Center, Berlin, Germany
- 2014 European Molecular Biology Organization (EMBO) Young Investigator
- 2012 Award of the Theodor Stern Foundation
- 2012 European Research Council (ERC) Starting Grant
- 2012 Award of the Dr. Paul und Cilli Weill-Foundation
- 2012 Editorial board member Circulation Research
- 2012 Albert Fraenkel Prize of the German Cardiac Society
- 2012 CEF-MC Adjunct Investigator, Cluster of Excellence Frankfurt Macromolecular Complexes
- 2011 Finalist for Paul Ehrlich and Ludwig Darmstaedter Prize for Young Researchers
- 2011 Principal Investigator, German Centre for Cardiovascular Research
- 2011 Principle investigator, Excellence Cluster Cardiopulmonary System
- 2009 Award of the Herbert and Hedwig Eckelmann Foundation
- 2009 Louis N. and Arnold M. Katz Basic Science Research Prize, American Heart Association
- 2007 Finalist for Melvin L. Marcus Young Investigator Award, American Heart Association
- 2006 Award of the Dr. Walter and Luise Freundlich Foundation
- 2004 Best Thesis Award, Goethe-University, Faculty of Medicine
- 2003 Young Investigator Award, Goethe-University, Faculty of Medicine

### **RESEARCH FUNDING**

- 2018 – 2023 European Research Council (ERC) Consolidator Grant, EMERGE
- 2018 – 2022 Deutsche Forschungsgemeinschaft, SFB834, Endothelial Signalling and Vascular Repair
- 2016 – 2017 German Centre for Cardiovascular Research (DZHK) Start-up Grant
- 2015 – 2017 European Molecular Biology Organization (EMBO) Young Investigator Programme
- 2014 – 2017 Deutsche Forschungsgemeinschaft, SFB834, Endothelial Signalling and Vascular Repair
- 2014 – 2017 LOEWE Research Cluster, Ubiquitin Networks (Ub-Net)
- 2012 – 2017 BELSPO, IAP Phase VII (ICePath)
- 2012 – 2017 European Research Council (ERC) Starting Grant, ANGIOMET
- 2012 – 2013 Leducq Transatlantic Network of Excellence, ARTEMIS
- 2012 – 2013 Adjunct Investigator Programme Grant, Cluster of Excellence

	Frankfurt Macromolecular Complexes (CEF-MC)
2011 – 2015	German Centre for Cardiovascular Research (DZHK)
2010 – 2013	Deutsche Forschungsgemeinschaft, SFB834, Endothelial Signalling and Vascular Repair
2007 – 2009	Deutsche Forschungsgemeinschaft, Individual Research Grant
2004 – 2005	Goethe-University, Faculty of Medicine, Young Investigator Grant

## EDITORIAL BOARDS

2012 – present	Circulation Research
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## SOLICITED REVIEWER FOR JOURNALS | SELECTED LIST

Nature, Science, Nature Medicine, Nature Cell Biology, Cell Metabolism, Developmental Cell, Nature Reviews Molecular Cell Biology, Nature Reviews Cancer, Journal of Clinical Investigation, Elife, Circulation, Circulation Research, PNAS, Blood, EMBO Journal, EMBO Molecular Medicine, Nature Protocols, Nature Communications, Cell Reports, Pharmacological Reviews, Journal of Cell Science, Development

## SOLICITED REVIEWER FOR GRANTS | SELECTED LIST

European Research Council (ERC advanced, consolidator and starting grants), European Molecular Biology Organisation (EMBO), Minerva Foundation (Max Planck Society), Deutsche Forschungsgemeinschaft (DFG), Swiss National Science Foundation (SNSF), The Netherlands Organisation for Scientific Research (NWO), The Dutch Cancer Society (KWF Kankerbestrijding), The National Fund for Scientific Research (FWO, Belgium), Worldwide Cancer Research (AICR), Deutsche Krebshilfe

## OTHER COMMISSIONS OF TRUST

2016 – present	Steering Committee, Excellence Cluster Cardiopulmonary System (ECCPS)
2014 – present	Steering Committee LOEWE Research Cluster, Ubiquitin Networks (Ub-Net)
2014 – present	Steering Committee Collaborative Research Centre SFB834

## CITATION METRICS (SCOPUS)

PUBLICATIONS | 35                      TOTAL CITATIONS | 5214                      H-INDEX | 23

## 10 MAIN PUBLICATIONS

1. Neto F, Klaus-Bergmann A, Ong YT, Alt S, Vion AC, Szymiorska A, Carvalho JR, Hollfinger I, Bartels-Klein E, Franco, CA, Potente M<sup>§</sup>, Gerhardt H (2018). YAP and TAZ regulate adherens junction dynamics and endothelial cell distribution during vascular development. **ELIFE** 7: e31037. <sup>§</sup>Co-corresponding author (IF = 15.7)
2. Yu P, Wilhelm K, Dubrac A, Tung JK, Alves TC, Fang JS, Xie Y, Zhu J, Chen Z, De Smet F, Zhang J, Jin S-W, Sun L, Sun H, Kibbey RG, Hirschi KK, Hay N, Carmeliet P, Chittenden TW, Eichmann A, Potente M, Simons M. FGF-dependent metabolic control of vascular development. **NATURE** 545: 224-28. (IF = 40.1)

3. Wilhelm K, Happel K, Eelen G, Schoors S, Oellerich MF, Lim R, Zimmermann B, Aspalter IM, Franco CA, Boettger T, Braun T, Fruttiger M, Rajewsky K, Keller C, Bruning JC, Gerhardt H, Carmeliet P, Potente M (2016). FOXO1 couples metabolic activity and growth state in the vascular endothelium. **NATURE** 529: 216-20. (IF = 40.1)
4. Boon RA, Iekushi K, Lechner S, Seeger T, Fischer A, Heydt S, Kaluza D, Treguer K, Carmona G, Bonauer A, Horrevoets AJ, Didier N, Girmatsion Z, Biliczki P, Ehrlich JR, Katus HA, Muller OJ, Potente M, Zeiher AM, Hermeking H, Dimmeler S (2013). MicroRNA-34a regulates cardiac ageing and function. **NATURE** 495: 107-10. (IF = 42.4)
5. Guarani V, Deflorian G, Franco CA, Kruger M, Phng LK, Bentley K, Toussaint L, Dequiedt F, Mostoslavsky R, Schmidt MH, Zimmermann B, Brandes RP, Mione M, Westphal CH, Braun T, Zeiher AM, Gerhardt H, Dimmeler S, Potente M (2011). Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. **NATURE** 473: 234-8. (IF = 36.3)
6. Phng LK, Potente M, Leslie JD, Babbage J, Nyqvist D, Lobov I, Ondr JK, Rao S, Lang RA, Thurston G, Gerhardt H (2009). Nrarp coordinates endothelial Notch and Wnt signaling to control vessel density in angiogenesis. **DEVELOPMENTAL CELL** 16: 70-82. (IF = 13.4)
7. Bonauer A, Carmona G, Iwasaki M, Mione M, Koyanagi M, Fischer A, Burchfield J, Fox H, Doebele C, Ohtani K, Chavakis E, Potente M, Tjwa M, Urbich C, Zeiher AM, Dimmeler S (2009). MicroRNA-92a controls angiogenesis and functional recovery of ischemic tissues in mice. **SCIENCE** 324: 1710-3. (IF = 29.7)
8. Potente M, Ghaeni L, Baldessari D, Mostoslavsky R, Rossig L, Dequiedt F, Haendeler J, Mione M, Dejana E, Alt FW, Zeiher AM, Dimmeler S (2007). SIRT1 controls endothelial angiogenic functions during vascular growth. **GENES & DEVELOPMENT** 21: 2644-58. (IF = 14.8)
9. Potente M, Urbich C, Sasaki K, Hofmann WK, Heeschen C, Aicher A, Kollipara R, DePinho RA, Zeiher AM, Dimmeler S (2005). Involvement of Foxo transcription factors in angiogenesis and postnatal neovascularization. **JOURNAL OF CLINICAL INVESTIGATION** 115: 2382-92. (IF = 15.1)
10. Fisslthaler B, Popp R, Kiss L, Potente M, Harder DR, Fleming I, Busse R (1999). Cytochrome P450 2C is an EDHF synthase in coronary arteries. **NATURE** 401: 493-7. (IF = 29.5)

### THREE MAIN REVIEW ARTICLES

1. Potente M, Mäkinen T (2017). Vascular heterogeneity and specialization in development and disease. **NATURE REVIEWS MOLECULAR CELL BIOLOGY** 18: 477-94. (IF = 46.6)
2. Potente M, Carmeliet P (2017). The link between angiogenesis and endothelial metabolism. **ANNUAL REVIEW OF PHYSIOLOGY** 79: 43-66. (IF = 15.8)
3. Potente M, Gerhardt H, Carmeliet P (2011). Basic and therapeutic aspects of angiogenesis. **CELL** 146: 873-87. (IF = 32.4)

### INVITED PRESENTATIONS | SELECTION FROM RECENT

2019 Keystone Symposia, Cancer Metastasis: The Role of Metabolism, Immunity and

the Microenvironment, Florence, Italy

2018 VIB Conference, Metabolism in Cancer and Stromal Cells, Leuven, Belgium

2018 CNIC Conference, New Frontiers in Cardiovascular Biology, Madrid, Spain

2018 10<sup>th</sup> International Kloster Seeon Meeting, Angiogenesis, Kloster Seeon, Germany

2018 Gordon Research Conference, Endothelial Cell Phenotypes in Health and Disease, Il Ciocco, Italy

2018 International Vascular Biology Meeting, Helsinki, Finland

2018 86<sup>th</sup> European Atherosclerosis Society Congress, Lisbon, Portugal

2018 1<sup>st</sup> JCS Council Forum on Basic CardioVascular Research, Tokyo, Japan

2017 Challenges in Ubiquitin and Autophagy Research, San Francisco, USA

2017 Asia Pacific Vascular Biology Organization Conference, Guangzhou, China

2017 Gordon Research Conference, Angiogenesis, Newport, USA

2017 International Society on Thrombosis and Haemostasis Congress, Berlin, Germany

2017 BACR Meeting, 3D Models & Tumour Microenvironment, Leeds, UK

2017 Keystone Symposia, Angiogenesis and Vascular Disease, Santa Fe, USA

2017 International Meeting of the SFB/TR 23, Heidelberg, Germany

2017 Joint Meeting of the ESM and EVBO Geneva, Switzerland

2017 Gordon Research Conference, Vascular Cell Biology, Ventura, USA

2016 3<sup>rd</sup> International Symposium On Diabetic Complications, Heidelberg, Germany

2016 Vasculata 2016, Uppsala, Sweden

2016 Frankfurt Conference on Ubiquitin and Autophagy, Frankfurt, Germany

2015 Annual Meeting of the British Microcirculation Society, Newcastle, UK

2015 Imperial College London Symposium on "Vascular Endothelium", London, UK

2015 VIB Conference, Metabolism in cancer and stromal cells, Leuven, Belgium

2015 FASEB Conference, HDACs, Sirtuins and Reversible Lysine Modifications, Timmendorfer Strand, Germany

2015 Gordon Research Conference, Angiogenesis, Newport, USA

2015 Joint Meeting of the ESM and EVBO, Pisa, Italy

2014 International Kloster Seeon Meeting, Angiogenesis, Kloster Seeon, Germany

2014 International Vascular Biology Meeting, Kyoto, Japan

2014 5<sup>eme</sup> Congres de la Societe Francaise d'Angiogenese, Chamonix, France

2014 Keystone Symposia, Metabolism and Angiogenesis, Whistler, Canada

2013 FASEB Conference, HDACs, Sirtuins, and Reversible Acetylation in Signaling and Disease, Lucca, Italy

2013 Gordon Research Conference, Angiogenesis, Newport, USA

2012 International Kloster Seeon Meeting, Angiogenesis, Kloster Seeon, Germany

2012 Gordon Research Conference, Notch Signaling in Development, Regeneration and Disease, Lewiston, USA

2012 Cell Symposium, Angiogenesis, Metabolic Regulation, and Cancer Biology, Leuven, Belgium

2012 International Vascular Biology Meeting, Wiesbaden, Germany