Curriculum Vitae

Personal Data

Title	Prof. Dr. rer. nat.	
First name	Carsten	
Name	Culmsee	
Current position	W3 Professor	
Current institution(s)/	Institute for Pharmacology and Clinical Pharmacy, Faculty of Pharmacy,	
site(s), country	Philipps-Universität Marburg (UMR), Germany	
Identifiers/ORCID	0000-0002-5121-5015	

Qualifications and Career

Stages	Periods and Details		
Degree programme	1989–1994	Pharmacy, UMR, Germany	
Doctorate	1997	Dissertation, Pharmacology, "Neuroprotection through induction of NGF by the ß2-mimetic clenbuterol", UMR, Germany	
Stages of academic/	2010–present	Professor of Clinical Pharmacy (W3), UMR, Germany	
professional career	2007–2010	Professor of Clinical Pharmacy (W2) and Chair of the Institute for Pharmacology and Clinical Pharmacy, UMR, Germany	
	2003–2007	C2-Group Leader and Lecturer, Faculty of Pharmacy, University of München, Germany	
	2004	Habilitation in Pharmacology and Toxicology, UMR, Germany	
	2000–2003	C1-Research Associate, Faculty of Pharmacy, UMR, Germany	
	1999–2000	DFG Postdoctoral fellow, Research Center on Aging, University of Kentucky, Lexington, USA	
	1998	Postdoctoral scientist, Faculty of Pharmacy, UMR, Germany	
	1995–1997	PhD student, Faculty of Pharmacy, UMR, Germany	
	1994	Approbation Certificate, Pharmacist	

Engagement in the Research System

since 2018	Visiting Professor of Zhengzhou University, Zhengzhou, China
since 2018	Founding Directorial Member and vice-director of the Center for Mind, Brain and Behavior – CMBB
2018–2021	Speaker of the Mitochondria-Network Initiative, Forschungscampus Mittelhessen – FCMH
2017–2018	Founding Directorial Member of the Marburg Center for Mind, Brain and Behavior - MCMBB
since 2016	Director of the TransMIT Project Division for Mitochondrial Mechanisms of Neuronal Processes

- since 2015 Directorial Board Member of the Marburg University Research Academy MARA
- since 2011 Vice Dean of the Faculty of Pharmacy, UMR, Germany
- 2007–2010 Chair of the Institute of Pharmacology and Clinical Pharmacy, Faculty of Pharmacy, UMR, Germany

Supervision of Researchers in Early Career Phases

 Long-standing and regular contributions to multidisciplinary training for national and international undergraduate, graduate and postgraduate students, offering lectures, practical courses and seminars on different topics from Pharmacology, Clinical Pharmacy to Molecular and Cellular Neurosciences. Since 2004, personal supervision of >30 PhD students and 3 habilitations.

Scientific Results

Contributions: ¹Conceptualization/Methodology, ²Analysis, ³Investigation, ⁴Funding Acquisition, ⁵Writing

- Category A (10 selected publications out of >150)
- Han W, ..., **Culmsee C**^{1,2,3,5}: Dying transplanted neural stem cells mediate survival bystander effects in the injured brain. Cell Death Dis 2023; 14(3):173. DOI: 10.1038/s41419-023-05698-z
- Ganjam GK, ..., **Culmsee C**^{1,2,3,4,5}: Mitochondrial damage by α-synuclein causes cell death in human dopaminergic neurons. Cell Death Dis 2019; 10(11):865. DOI: 10.1038/s41419-019-2091-2
- Michels S, Wöhr M, Schwarting RK, Culmsee C^{1,2,3,4,5}: Psychiatric risk gene Cacna1c determines mitochondrial resilience against oxidative stress in neurons. Cell Death Dis 2018; 9(6):645. DOI: 10.1038/s41419-018-0676-9
- Jelinek A, ..., **Culmsee C**^{1,2,3,4,5}: Mitochondrial rescue prevents glutathione peroxidase-dependent ferroptosis. Free Radic Biol Med 2018;117:45-57. DOI:10.1016/j.freeradbiomed.2018.01.019
- Kisko TM, ..., Culmsee C^{1,2,3,4,5}, Schwarting RKW, Wöhr M: Cacna1c haploinsufficiency leads to pro- social 50-kHz ultrasonic communication deficits in rats. Dis Model Mech 2018; 11(6):dmm034116. DOI: 10.1242/dmm.034116
- Neitemeier S, ..., **Culmsee C**^{1,2,3,4,5}: Bid links ferroptosis to mitochondrial death pathways. Redox Biology 2017; 12:558-570. DOI: 10.1016/j.redox.2017.03.007
- Richter M, ..., **Culmsee C**^{1,2,3,5}: Activation of SK2 channels preserves ER Ca²⁺ homeostasis and protects against ER stress-induced cell death. Cell Death Differ 2016; 23(5):814-827. DOI: 10.1038/ cdd.2015.146
- Grohm J, ..., **Culmsee C**^{1,2,3,4,5}: Inhibition of Drp1 provides neuroprotection in vitro and in vivo. Cell Death Differ 2012; 19(9):1446-1458. DOI: 10.1038/cdd.2012.18
- Dolga AM, ..., **Culmsee C**^{1,2,3,5}: Activation of KCNN3/SK3/K(Ca)2.3 channels attenuates enhanced calcium influx and inflammatory cytokine production in activated microglia. Glia 2012; 60(12):2050-2064. DOI: 10.1002/glia.22419
- Tobaben S, ..., **Culmsee C**^{1,2,3,4,5}: Bid-mediated mitochondrial damage is a key mechanism in glutamateinduced oxidative stress and AIF-dependent cell death in immortalized HT-22 hippocampal neurons. Cell Death Differ 2011; 18(2):282-292. DOI: 10.1038/cdd.2010.92

Category B

- **Culmsee C**^{1,2,4,5}, ..., **Dannlowski U**, **Alferink J**: Mitochondria, microglia, and the immune system-how are they linked in affective disorders? Front Psychiatry 2019;9:739. DOI:10.3389/fpsyt.2018.00739
- Kircher T, Wöhr M, Nenadić I, ..., Alferink J, Culmsee C^{1,2,3,4,5}, Garn H, Hahn T, ..., Jansen A, ..., Dannlowski U: Neurobiology of the major psychoses: a translational perspective on brain structure and function - the FOR 2107 consortium. Eur Arch Psychiatry Clin Neurosci 2019; 269(8):949-962. DOI: 10.1007/s00406-018-0943-x

Science communication (selected)

- since 2021 Regional continuing education representative of the Landesapothekerkammer (LAK) Hessen for the area Marburg-Gießen, Germany
- since 2014 Member of the Scientific Advisory Board for continuing education of the LAK Hessen, Germany

Academic Distinctions

- 2002 Phoenix Pharmacy Prize for Pharmacology
- 2000 Dissertation prize of the UMR

Other Information

n/a