

CURRICULUM VITAE

Elisabeth Binder, MD, PhD	Director, Max Planck Institute of Psychiatry, Dept. of Translational Research in Psychiatry, Munich
Kraepelinstr 2-10, 80804 Munich, Germany Phone: ++ 49 89 30622 8125 E-Mail: binder@psych.mpg.de	Adjunct Professor, Dept. of Psychiatry and Behavioral Sciences, Emory University School of Medicine

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Medical School, University of Vienna, Austria	MD	1989-1995	Medicine
Medical School, Université Libre de Bruxelles, Belgium	MD student	1992-1994	Medicine
Emory University, Atlanta, GA	PhD	1995-2000	Neuroscience
Max Planck Institute of Psychiatry, Munich Germany		2000-2004	Residency in psychiatry
Max Planck Institute of Psychiatry, Munich Germany		2000-2004	Postdoctoral training in Human Genetics

POSITIONS AND EMPLOYMENT

Sept 2004 - 2011	Assistant Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA.
Sept. 2011 - 2016	Associate Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA.
Sept. 2016 - 2019	Full Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA.
Sept. 2019 -	Adjunct Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA.
June 2007 -	Research Group Leader (RG Molecular Genetics of Depression), Max-Planck Institute of Psychiatry, Munich, Germany – primary and joint appointment with Emory
August 2013 -	Director, Dept. for Translational Research in Psychiatry, Max-Planck Institute of Psychiatry Munich, Germany – primary and joint appointment with Emory Honors

SCHOLARSHIPS

1995-2000	Fulbright Scholar for PhD in Neuroscience at Emory University
1998-2000	Scholar of the Austrian Academy of Sciences

AWARDS and HONORS (selected)

2010	Theodore Reich Young Investigator Award of the International Society of Psychiatric Genetics
2012	Max Hamilton Memorial Prize of the Collegium Internationale Neuropsychopharmacologicum (CINP)
2016	The Eva King Killiam Research Award for outstanding Translational Research in Neuropsychopharmacology by the American College of Neuropsychopharmacology
2017	Member of The German National Academy of Sciences Leopoldina
2017	Carus Medal of the Leopoldina
2019	Valkhof Chair at the Radboud University Medical Center, Nijmegen, Netherlands
2019	Ron the Kloet award for Stress Research awarded by the Stress-NL Consortium

2020	Member of the National Academy of Medicine (USA)
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BOARD & COMMITTEE MEMBERSHIPS (SELECTED) (EDITORIAL BOARDS, SCIENTIFIC ADVISORY BOARDS, SOCIETIES)

2014- present	Member of the Advisory Committee of the Child & Brain Development Program of the The Canadian Institute for Advanced Research, currently chair
2015- 2022	Member of the Advisory Board, Steering committee NCCR (National Centres of Competence for Research in Switzerland) “SYNAPSY – Synaptic bases of mental diseases”
2017-present	Scientific Advisory Boards des Donders Institute for Brain Cognition and Behaviour, Nijmegen, Netherlands
2018-present	Deputy editor, American Journal of Psychiatry
2021-present	Member of the Scientific Advisory Council of the Brainscapes project, Amsterdam, Netherlands

Editorial board member: *Biological Psychiatry, Genes, Brain and Behavior; Neurobiology of Stress; Depression and Anxiety; European Archives of Psychiatry and Clinical Neuroscience*

LEADERSHIP/MEMBERSHIP IN RESEARCH SOCIETIES

2004 - present	International Society of Psychiatric Genetics: (ISPG) Board member since 2014, secretary 2016 -2020
2006 - present	Member, Society of Biological Psychiatry:
2007 – present	Member, American College of Neuropsychopharmacology (ACNP), currently fellow
2012 – present	European College of Neuropsychopharmacology (ECNP), Executive Committee Member, 2014-present, 2019-2025 vice-president, fellow

FIELD OF SPECIALIZATION

- Gene x environment interactions in psychiatric disorders
- Epigenetics of early adversity
- Biomarkers in psychiatry

FUNDING WITHIN THE LAST 3 YEARS

Youth-GEM #101057182 (Binder Work package co-lead)	10/2022-10/2027
Horizon 2020 EU/HORIZON-HLTH-2021-STAYHLTH-01-02	399.000 €
Youth-GEM - Gene Environment interactions in Mental health trajectories of Youth funded within the EU-call “Towards a molecular and neurobiological understanding of mental health” Co-lead of WP4: Developmental Genomics of the Human Brain.	
TECS Project # 458609264 (Binder Co-I)	04/2021 – 04/2024
German Research Foundation (DFG),	122,650 € for proj.
Deciphering epigenetic changes associated with the SARS-CoV-2 pandemic in a genetically informative longitudinal twin family study: the TwinLife epigenetic Change Satellite (TECS) Project.	
Depression Task Force grant (PI Binder)	07/2019-06/2023
Hope for Depression Research Foundation	350,000 USD/year
Deciphering mechanisms of gene x adversity interactions: new insights for the prevention, diagnosis and treatment of depression	
Marie Skłodowska-Curie Innovative Training Network #860895 (Project PI)	09/2019-08/2023
International Training Network - Horizon 2020	252,788 € to MPI, 3,773,266 € total
TransSYS - Translational SYStemics: Personalised Medicine at the Interface of Translational Research and Systems Medicine	

Kids2Health (PI Heim, Binder project PI) 11/2017 – 11/2023
 German Federal Ministry of Health and Education (BMBF); 4,180,492 €/4 years (666,500 € for proj.)
 Kids2Health: Understanding and Mitigating the Impact of Early Life Stress on Disease Risk: Towards
 Developmental Programming of Lifelong Health

Else Kröner Fresenius (EKF) Forschungskolleg 06/2017-05/2023
 Research College Translational Psychiatry (Co-speaker Binder, with P. Falkai LMU); 2.000.000 €/ 6 years
 Program supporting the training of clinician scientists to obtain a PhD during their psychiatry residency
 training

10 MOST RELEVANT PEER-REVIEWED PUBLICATIONS

1. **Binder EB**, Salyakina D, Lichtner P, Wochnik GM, Ising M, Putz B, Papiol S, Seaman S, Lucae S, Kohli MA, Nickel T, Kunzel HE, Fuchs B, Majer M, Pfennig A, Kern N, Brunner J, Modell S, Baghai T, Deiml T, Zill P, Bondy B, Rupprecht R, Messer T, Kohnlein O, Dabitz H, Bruckl T, Muller N, Pfister H, Lieb R, Mueller JC, Lohmussaer E, Strom TM, Bettecken T, Meitinger T, Uhr M, Rein T, Holsboer F, Muller-Myhsok B. 2004: Polymorphisms in FKBP5 determine a novel subtype of depression characterized by increased recurrence and rapid response to antidepressant treatment, *Nature Genetics* 36(12):1319-25.
2. **Binder EB***, Bradley RG*, Liu W, Epstein MP, Deveau TC, Mercer KB, Tang Y, Gillespie CF, Heim CM, Nemeroff CB, Cubells JF, Ressler KJ. Association of FKBP5 Polymorphisms and Childhood Abuse with Risk of Posttraumatic Stress Disorder Symptoms in Adults, *JAMA* 2008;299(11):1-5
3. Kohli MA, Lucae S, Saemann PG, Schmidt MV, Demirkan A, Hek K, Czamara D, Alexander M, Salyakina D, Ripke S, Hoehn D, Specht M, Menke A, Hennings J, Heck A, Wolf C, Ising M, Schreiber S, Czych M, Müller MB, Uhr M, Bettecken T, Becker A, Schramm J, Rietschel M, Maier W, Bradley B, Ressler KJ, Nöthen MM, Cichon S, Craig IW, Breen G, Lewis CM, Hofman A, Tiemeier H, van Duijn CM, Holsboer F, Müller-Myhsok B, **Binder EB**. The neuronal transporter gene SLC6A15 confers risk to major depression. *Neuron*. 2011; 70(2):252-65.
4. Klengel T, Mehta D, Anacker C, Rex-Haffner M, Pruessner JC, Pariante CM, Pace TWW, Mercer KB, Mayberg HS, Bradley B, Nemeroff CB, Holsboer F, Heim CM, Ressler KJ, Rein T, **Binder EB**. Allele-specific DNA demethylation in FKBP5: a molecular mediator of gene x childhood trauma interactions. *Nature Neuroscience* 2013 Jan;16(1):33-41.
5. Arloth J, Bogdan R, Weber P, Frishman G, Menke A, Wagner KV, Balsevich G, Schmidt MV, Karbalai N, Czamara D, Altmann A, Trümbach D, Wurst W, Mehta D, Uhr M, Klengel T, Erhardt A, Carey CE, Conley ED, Ruepp A, Müller-Myhsok B, Hariri AR, **Binder EB**. Genetic Differences in the Immediate Transcriptome Response to Stress Predict Risk-Related Brain Function and Psychiatric Disorders. *Neuron*. 2015; 86(5):1189-202.
6. Halldorsdottir T, Piechaczek C, Soares de Matos AP, Czamara D, Pehl V, Wagenbuechler P, Feldmann L, Quickenstedt-Reinhardt P, Allgaier AK, Freisleder FJ, Greimel E, Kvist T, Lahti J, Räikkönen K, Rex-Haffner M, Arnarson EÖ, Craighead WE, Schulte-Körne G, **Binder EB**. Polygenic Risk: Predicting Depression Outcomes in Clinical and Epidemiological Cohorts of Youths. *Am J Psychiatry*. 2019
7. Czamara D, Eraslan G, Page CM, Lahti J, Lahti-Pulkkinen M, Hämäläinen E, Kajantie E, Laivuori H, Villa PM, Reynolds RM, Nystad W, Håberg SE, London SJ, O'Donnell KJ, Garg E, Meaney MJ, Entringer S, Wadhwa PD, Buss C, Jones MJ, Lin DTS, MacIsaac JL, Kobor MS, Koen N, Zar HJ, Koenen KC, Dalvie S, Stein DJ, Kondofersky I, Müller NS, Theis FJ; Major Depressive Disorder Working Group of The Psychiatric Genomics Consortium, Räikkönen K, **Binder EB**. Integrated analysis of environmental and genetic influences on cord blood DNA methylation in new-borns. *Nat Commun*. 2019 Jun 11;10(1):2548
8. Provençal N, Arloth J, Cattaneo A, Anacker C, Cattaneo N, Wiechmann T, Röh S, Ködel M, Klengel T, Czamara D, Müller NS, Lahti J; PREDO team, Räikkönen K, Pariante CM, **Binder EB**. Glucocorticoid exposure during hippocampal neurogenesis primes future stress response by inducing changes in DNA methylation. *Proc Natl Acad Sci U S A*. 2019.

9. Zannas AS, Jia M, Hafner K, Baumert J, Wiechmann T, Pape J, Arloth J, Ködel M, Martinelli S, Roitman M, Roeh S, Haehle A, Emeny R, Iurato S, Carrillo-Roa T, Lahti J, Räikkönen K, Eriksson JG, Drake AJ, Waldenberger M, Wahl S, Kunze S, Lucae S, Bradley B, Gieger C, Hausch F, Smith AK, Ressler KJ, Müller-Myhsok B, Ladwig KH, Rein T, Gassen NC, **Binder EB**. Epigenetic upregulation of FKBP5 by aging and stress contributes to NF- κ B-driven inflammation and cardiovascular risk. *Proc Natl Acad Sci U S A* 2019 Jun 4;116(23):11370-11379
10. Cruceanu C, Dony L, Krontira AC, Fischer DS, Roeh S, Di Giaimo R, Kyrousi C, Kaspar L, Arloth J, Czamara D, Gerstner N, Martinelli S, Wehner S, Breen MS, Koedel M, Sauer S, Sportelli V, Rex-Haffner M, Cappello S, Theis FJ, **Binder EB**. Cell-Type-Specific Impact of Glucocorticoid Receptor Activation on the Developing Brain: A Cerebral Organoid Study. *Am J Psychiatry*. 2022, 179:375-387.