

**Christoph W. Turck, Ph.D.**  
**Professor of Biochemistry**

Phone +49-89-30622-8544; +86-18687544434  
E-Mail [turck@psych.mpg.de](mailto:turck@psych.mpg.de); [turck@mail.kiz.ac.cn](mailto:turck@mail.kiz.ac.cn)

**Education**

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1983 Ph.D. (Dr.rer.nat.) Peptide Chemistry, Macromolecular Chemistry, University of Aachen, Germany  
1981 Dipl. Chem., Macromolecular Chemistry, University of Aachen, Germany  
1978 IAESTE Industrial Traineeship, AB Volvo, R&D, Gothenburg, Sweden  
1975 IAESTE Industrial Traineeship, Hellenic Aspropyrgos Refinery, Quality Control. Athens, Greece

**Professional Employment**

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***Kunming Institute of Zoology, Chinese Academy of Sciences***

2023-Present Professor, Chinese Academy of Sciences  
2023-Present Director, Proteomics Platform, Kunming Institute of Zoology, Chinese Academy of Sciences

***Max Planck Institute of Psychiatry***

2002-2022 Head, Proteomics and Biomarkers  
2003-Present Professor, Department of Biochemistry, Ludwig Maximilians University Munich  
2004-2023 Faculty, International Max Planck Research School for Molecular Life Sciences  
2009-Present Faculty, Graduate Program of Systemic Neurosciences, LMU  
2015-2022 Faculty, International Max Planck Research School for Translational Psychiatry  
2019-Present Adjunct Faculty, CAS-MPG Partner Institute of Computational Biology, Shanghai

***University of California, San Francisco, Howard Hughes Medical Institute***

1986-2002 Director, Protein Structure Laboratory  
1986-1988 Instructor of Medicine  
1988-1994 Assistant Professor of Medicine  
1993-2002 Associate Investigator, Cardiovascular Research Institute  
1994-2000 Associate Professor of Medicine  
2000-2002 Professor of Medicine

***Roche Institute of Molecular Biology, Nutley, NJ***

1983-1986 Postdoctoral Fellow, Department of Cell Biology

***University of Aachen***

1981-1982 Research Associate, Macromolecular Chemistry, University of Aachen, Germany  
1982-1983 Research Associate, German Wool Research Institute, University of Aachen, Germany

**Professional Activities**

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2004-2008 BMBF National Genome Research Network, Project Committee  
2005-2011 Association of Biomolecular Research Facilities, Proteomics Research Group  
2007-2010 Association of Biomolecular Research Facilities, Executive Board  
2007-Present fNIH Biomarkers Consortium, Neuroscience Steering Committee  
2008-Present Association of Biomolecular Research Facilities, Metabolomics Research Group  
2010-2015 EU Innovative Medicines Initiative, NEWMEDS, Scientific Advisory Board  
2011-2012 American Society for Mass Spectrometry, Pharmaceuticals Interest Group  
2011-2022 International Expert Panel, National Medical Research Council, Singapore  
2016-2017 Visiting Scholar, University of California, San Diego, Skaggs School of Pharmacy  
2017-2020 Molecular Neuropsychiatry, Editorial Board  
2017-2023 External Advisory Board, Hamartoma P01, Harvard University  
2018 Academic Advisor, Global Distinguished Scientist Center of Nanjing University  
2018-Present Ludwig Maximilians University Munich-China Academic Network, Advisory Board  
2019-2023 Visiting Scientist, CAS Kunming Institute of Zoology  
2020-2021 Cohen Veterans Bioscience, Metabolomics Working Group  
2021 Review Panel, Canadian Foundation for Innovation, Major Science Initiatives Fund  
2021-Present Consultant, atai Life Sciences AG

2022-Present Honorary Member, International Advisory Committee of National Research Facility for the Phenotypic and Genetic Analysis of Model Animals, Kunming Institute of Zoology

## Awards and Grants

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1983 Wilhelm Borchers Medal, University of Aachen  
1983-1986 Postdoctoral Fellowship, Roche Institute of Molecular Biology  
1987-1988 Research Grant, Scleroderma Society  
1987-1988 Individual Investigator Research Grant, Academic Senate, UC San Francisco  
1988-1989 Research Evaluation and Allocation Committee, UC San Francisco  
1988-1990 United Scleroderma Foundation  
1993-1996 American Heart Association Research Grant  
1996-2001 American Heart Association, California Affiliate Research Grant  
1998-2001 National Science Foundation, Research Award  
2002-2004 Australian Research Council, Research Grant, Partner Investigator  
2004-2005 Bavaria California Technology Grant  
2004-2008 BMBF National Genome Research Network, Neuronet  
2004-2008 BMBF National Genome Research Network, Exploratory Project Grant  
2006-2011 BMBF QuantPro-Quantitative Analysis of Dynamic Processes in Living Systems  
2008-2013 BMBF National Genome Research Network Plus, MooDS  
2009-2012 BMBF Molecular Diagnostics  
2013-2018 NIH Common Fund, Collaborative Activities to Promote Metabolomics Research  
2014-2018 ERANET-NEURON Mental Disorders  
2015-2018 KMU-Innovativ  
2019-2022 Chinese Academy of Sciences, Presidents International Fellowship Initiative  
2023-2025 Yunnan High End Foreign Experts Program  
2023-2025 Chinese Academy of Sciences, International Talent Program

## Publications

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- Chi Y, Qi R, Zhou Y, Tong H, Jin H, Turck CW, Chen WH, Wang GZ. (2023) scBrainMap: a landscape for cell types and associated genetic markers in the brain. Database (Oxford). doi: 10.1093/database/baad035. [[Pubmed](#)]
- Filipović D, Novak B, Xiao J, Yan Y, Bernardi RE, Turck CW. (2023) Chronic fluoxetine treatment in socially-isolated rats modulates the prefrontal cortex synaptoproteome. J Proteomics 282:104925. [[Pubmed](#)]
- Contini C, Serrao S, Manconi B, Olanas A, Iavarone F, Guadalupi G, Messina I, Castagnola M, Masullo C, Bizzarro A, Turck CW, Maccarrone G, Cabras T. (2023) Characterization of Cystatin B Interactome in Saliva from Healthy Elderly and Alzheimer's Disease Patients. Life 13:748. [[Pubmed](#)]
- Stepan J, Heinz DE, Dethloff F, Bajaj T, Zellner A, Hafner K, Wiechmann S, Mackert S, Meccad Y, Rabenstein M, Ebert T, Martinelli S, Häusl AS, Pöhlmann ML, Hermann A, Ma X, Pavenstädt H, Schmidt MV, Philipsen A, Turck CW, Deussing JM, Kuster B, Wehr MC, Stein V, Kremerskothen J, Wotjak CT, Gassen NC. (2022) Hippo-released WWC1 facilitates AMPA receptor regulatory complexes for hippocampal learning. Cell Rep 41:111766. [[Pubmed](#)]
- Yan Y, Park DI, Horn A, Golub M, Turck CW. (2023) Delineation of biomarkers and molecular pathways of residual effects of fluoxetine treatment in juvenile rhesus monkeys by proteomic profiling. Zool Res 44:30-42. [[Pubmed](#)]
- Filipović D, Novak B, Xiao J, Yan Y, Yeoh K, Turck CW. (2022) Chronic Fluoxetine Treatment of Socially Isolated Rats Modulates Prefrontal Cortex Proteome. Neuroscience. 501:52-71. [[Pubmed](#)]
- Zhang L, Turck CW, Wang GZ. (2022) Editorial: Time, genetics, and complex disease. Front Genet 13:1016049. [[Pubmed](#)]
- Li J, Nie P, Turck CW, Wang GZ. (2022) Gene networks under circadian control exhibit diurnal organization in primate organs. Commun Biol 5:764. [[Pubmed](#)]

- Lopez JP, Lücken MD, Brivio E, Karamihalev S, Kos A, De Donno C, Benjamin A, Yang H, Dick ALW, Stoffel R, Flachskamm C, Ressler A, Roeh S, Huettl RE, Parl A, Eggert C, Novak B, Yan Y, Yeoh K, Holzapfel M, Hauger B, Harbich D, Schmid B, Di Giaino R, Turck CW, Schmidt MV, Deussing JM, Eder M, Dine J, Theis FJ, Chen A. (2022) Ketamine exerts its sustained antidepressant effects via cell-type-specific regulation of Kcnq2. *Neuron* 110:2283-2298. [[Pubmed](#)]
- Turck CW, Webhofer C, Reckow S, Moy J, Wang M, Guillermier C, Poczatek JC, Filiou MD. (2022) Antidepressant treatment effects on hippocampal protein turnover: Molecular and spatial insights from mass spectrometry. *Proteomics* e2100244. [[Pubmed](#)]
- Filiou MD, Teplytska L, Nussbaumer M, Otte DM, Zimmer A, Turck CW. (2022) Multi-Omics Analysis Reveals Myelin, Presynaptic and Nicotinate Alterations in the Hippocampus of G72/G30 Transgenic Mice. *J Pers Med* 12:244. [[Pubmed](#)]
- Tkachev A, Stekolshchikova E, Bobrovskiy DM, Anikanov N, Ogurtsova P, Park DI, Horn AKE, Petrova D, Khrameeva E, Golub MS, Turck CW, Khaitovich P. (2021) Long-Term Fluoxetine Administration Causes Substantial Lipidome Alteration of the Juvenile Macaque Brain. *Int J Mol Sci* 22:8089. [[Pubmed](#)]
- Martinelli S, Anderzhanova EA, Bajaj T, Wiechmann S, Dethloff F, Weckmann K, Heinz DE, Ebert T, Hartmann J, Geiger TM, Döngi M, Hafner K, Pöhlmann ML, Jollans L, Philipsen A, Schmidt SV, Schmidt U, Maccarrone G, Stein V, Hausch F, Turck CW, Schmidt MV, Gellner AK, Kuster B, Gassen NC. (2021) Stress-primed secretory autophagy promotes extracellular BDNF maturation by enhancing MMP9 secretion. *Nat Commun* 12:4643. [[Pubmed](#)]
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- Chaby LE, Lasseter HC, Contrepois K, Salek RM, Turck CW, Thompson A, Vaughan T, Haas M, Jeromin A. (2021) Cross-Platform Evaluation of Commercially Targeted and Untargeted Metabolomics Approaches to Optimize the Investigation of Psychiatric Disease. *Metabolites* 11:609. [[Pubmed](#)]
- Zhang W, Wang W, Zhao M, Turck CW, Zhu Y, Wang G-Z. (2021) Rapid body-wide transcriptomic turnover during Rhesus macaque perinatal development. *Front Physiol* 12:690540. [[Pubmed](#)]
- Filiou MD, Nussbaumer M, Teplytska L, Turck CW. (2021) Behavioral and Metabolome Differences between C57BL/6 and DBA/2 Mouse Strains: Implications for Their Use as Models for Depression- and Anxiety-Like phenotypes. *Metabolites* 11:128. [[Pubmed](#)]
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- Sun L, Ma J, Turck CW, Xu P, Wang GZ. (2020) Genome-wide circadian regulation: A unique system for computational biology. *Comput Struct Biotechnol J* 18:1914-1924. [[Pubmed](#)]
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- Capitano JP, Dethloff F, Turck CW. (2020) Lipid metabolism is associated with temperament, corticosteroid, and hematological measures in infant rhesus monkeys (*Macaca mulatta*). *Zool Res* 41:709-714. [[Pubmed](#)]
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- Dethloff F, Vargas F, Elijah E, Quinn R, Park DI, Herzog DP, Müller MB, Gentry EC, Knight R, Gonzalez A, Dorrestein PC, Turck CW. (2020) Paroxetine administration affects microbiota and bile acid levels in mice. *Front Psychiatry* 11:518. [[Pubmed](#)]
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- Joaquim HPG, Costa AC, Talib LL, Dethloff F, Serpa MH, Zanetti MV, van de Bilt M, Turck CW. (2020) Plasma Metabolite Profiles in First Episode Psychosis: Exploring Symptoms Heterogeneity/Severity in Schizophrenia and Bipolar Disorder Cohorts. *Front Psychiatry* 11:496. [[Pubmed](#)]
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- Misiewicz Z, Iurato S, Kuleskaya N, Salminen L, Rodrigues L, Maccarrone G, Martins J, Czamara D, Laine MA, Sokolowska E, Trontti K, Rewerts C, Novak B, Volk N, Park DI, Jokitalo E, Paulin L, Auvinen P, Voikar V, Chen A, Erhardt A, Turck CW, Hovatta I. (2019) Multi-omics analysis identifies mitochondrial pathways associated with anxiety-related behavior. *PLoS Genet* 15(9):e1008358. [[Pubmed](#)]
- Martins J, Czamara D, Lange J, Dethloff F, Binder EB, Turck CW, Erhardt A. (2019) Exposure-induced changes of plasma metabolome and gene expression in patients with panic disorder. *Depress Anxiety* 36:1173-1181. [[Pubmed](#)]
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- Papadopoulou Z, Vlaikou AM, Theodoridou D, Markopoulos GS, Tsoni K, Agakidou E, Drosou-Agakidou V, Turck CW, Filiou MD, Syrrou M. (2019) Stressful newborn memories: pre-conceptual, in utero, and postnatal events. *Front Psychiatry* 10:220. [[Pubmed](#)]
- Park DI, Turck CW. (2019) Interactome Studies of Psychiatric Disorders. *Adv Exp Med Biol* 1118:163-173. [[Pubmed](#)]

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- Weckmann K, Deery MJ, Howard JA, Feret R, Asara JM, Dethloff F, Filiou MD, Iannace J, Labermaier C, Maccarrone G, Webhofer C, Teplýtska L, Lilley K, Müller MB, Turck CW. (2018) Ketamine's antidepressant effect is mediated by energy metabolism and antioxidant defense system. *Sci Rep* 7:15788. [[Pubmed](#)]
- Weckmann K, Diefenthaler P, Baeken MW, Yusufli K, Turck CW, Asara JM, Behl C, Hajieva P. (2018) Metabolomics profiling reveals differential adaptation of major energy metabolism pathways associated with autophagy upon oxygen and glucose reduction. *Sci Rep* 8:2337. [[Pubmed](#)]
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- Ko HG, Choi JH, Park DI, Kang SJ, Lim CS, Sim SE, Shim J, Kim JI, Kim S, Choi TH, Ye S, Lee J, Park P, Kim S, Do J, Park J, Islam MA, Kim HJ, Turck CW, Collingridge GL, Zhuo M, Kaang BK. (2018) Rapid turnover of cortical NCAM1 regulates synaptic reorganization after peripheral nerve injury. *Cell Rep* 22:748-759. [[Pubmed](#)]
- Park DI, Dournes C, Sillaber I, Ising M, Asara JM, Webhofer C, Filiou MD, Müller MB, Turck CW. (2017) Delineation of molecular pathway activities of the chronic antidepressant treatment response suggests important roles for glutamatergic and ubiquitin-proteasome systems. *Transl Psychiatry* 7(4):e1078. [[Pubmed](#)]
- Turck CW, Guest PC, Maccarrone G, Ising M, Kloiber S, Lucae S, Holsboer F, Martins-de-Souza D. (2017) Proteomic Differences in Blood Plasma Associated with Antidepressant Treatment Response. *Front Mol Neurosci* 10:272-282. [[Pubmed](#)]
- Café-Mendes CC, Ferro ES, Torrão AS, Crunfli F, Rioli V, Schmitt A, Falkai P, Britto LR, Turck CW, Martins-de-Souza D. (2017) Peptidomic analysis of the anterior temporal lobe and corpus callosum from schizophrenia patients. *J Proteomics* 151:97-105. [[Pubmed](#)]
- Maccarrone G, Bonfiglio JJ, Silberstein S, Turck CW, Martins-de-Souza D. (2017) Characterization of a Protein Interactome by Co-Immunoprecipitation and Shotgun Mass Spectrometry. *Methods Mol Biol* 1546:223-234. [[Pubmed](#)]
- Park DI, Dournes C, Sillaber I, Uhr M, Asara JM, Gassen NC, Rein T, Ising M, Webhofer C, Filiou MD, Müller MB, Turck CW. (2016) Purine and pyrimidine metabolism: Convergent evidence on chronic antidepressant treatment response in mice and humans. *Sci Rep* 6:35317. [[Pubmed](#)]
- Inda C, Dos Santos Claro PA, Bonfiglio JJ, Senin SA, Maccarrone G, Turck CW, Silberstein S. (2016) Different cAMP sources are critically involved in G protein-coupled receptor CRHR1 signaling. *J Cell Biol* 214:181-195. [[Pubmed](#)]
- Maccarrone G, Nischwitz S, Deininger SO, Hornung J, K FB, Stadelmann C, Turck CW, Weber F. (2016) MALDI imaging mass spectrometry analysis-A new approach for protein mapping in multiple sclerosis brain lesions. *J Chromatogr B Analyt Technol Biomed Life Sci* S1570-0232:30452-30454. [[Pubmed](#)]

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- Kao C-Y, He Z, Henes K, Asara JM, Webhofer C, Filiou MD, Khaitovich P, Wotjak CT, Turck CW. (2016) Fluoxetine Treatment Rescues Energy Metabolism Pathway Alterations in a Posttraumatic Stress Disorder Mouse Model. *Mol Neuropsychiatry* 2:46-59. [[Pubmed](#)]
- Su SY, Hogrefe-Phi CE, Asara JM, Turck CW, Golub MS. (2016) Peripheral fibroblast metabolic pathway alterations in juvenile rhesus monkeys undergoing long-term fluoxetine administration. *Eur Neuropsychopharmacol* 26:1110-1118. [[Pubmed](#)]
- Lopes S, Teplytska L, Vaz-Silva J, Dioli C, Trindade R, Morais M, Webhofer C, Maccarrone G, Almeida OF, Turck CW, Sousa N, Sotiropoulos I, Filiou MD. (2016) Tau Deletion Prevents Stress-Induced Dendritic Atrophy in Prefrontal Cortex: Role of Synaptic Mitochondria. *Cereb Cortex* 27:2580-2591. [[Pubmed](#)]
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- Cheema AK, Asara JM, Wang Y, Neubert TA, Tolstikov V, Turck CW. (2015) The ABRF Metabolomics Research Group 2013 Study: Investigation of Spiked Compound Differences in a Human Plasma Matrix. *J Biomol Tech* 26:83-89. [[Pubmed](#)]
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