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Professor of Biochemistry

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Education

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

Max Planck Institute of Psychiatry

2002-Present Head, Proteomics and Biomarkers
2003-Present Professor, Department of Biochemistry, University of Munich
2004-Present Faculty, International Max Planck Research School for Molecular Life Sciences
2009-Present Faculty, Graduate Program of Systemic Neurosciences, University of Munich
2015-Present 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

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-Present 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-Present External Advisory Board, Hamartoma P01, Harvard University
2018-Present Academic Advisor, Global Distinguished Scientist Center of Nanjing University
2018-Present LMU-China Academic Network
2019-Present Visiting Scientist, CAS Kunming Institute of Zoology

Awards and Grants

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
2019-2020 CAS Presidents International Fellowship Initiative, Visiting Scientist Program

Memberships

American College of Neuropsychopharmacology
American Society for Mass Spectrometry
US HUPO
German Chemical Society

Publications

1. Turck, CW and Berndt, H. (1981) Synthesis of defined peptide derivatives by aminolysis of 3-[N[□]-acyl-peptidyloxy]-2-hydroxy-N-alkylbenzamides at elevated temperatures. Part I: Hoppe Seyler's Z Physiol Chem 362:821-828. [[Pubmed](#)]
2. Krupen, K, Turck, CW, Stein, S, Kapp, JA and Webb, DR. (1985) Purification of antigen-specific suppressor factors. Methods Enzymol 116:325-340. DiSabato, G., Langone, J.J. and VanVunakis, A., eds., Academic Press, New York. [[Pubmed](#)]
3. Turck, CW, Kapp, JA and Webb, DR. (1985) Purification and characterization of a second order monoclonal T-cell suppressor factor specific for L-glutamic acid⁶⁰-L-alanine³⁰-L-tyrosine¹⁰. J Immunol 135:3232-3237. [[Pubmed](#)]
4. Turck, CW, Kapp, JA and Webb, DR. (1986) Structural analyses of a monoclonal heterodimeric suppressor factor specific for L-glutamic acid⁶⁰-L-alanine³⁰-L-tyrosine¹⁰. J Immunol 137:1904-1909. [[Pubmed](#)]
5. Webb, DR, Kapp, JA, Krupen, K, Pierce, CW, Sorensen, CM and Turck, CW. (1986). Antigen-specific suppressor factors: Current perspectives. In: Mediators of Immune Regulation and Immunotherapy. Singhal, SK and Delovitch, TL, eds., Elsevier Press.
6. Webb, DR, Kapp, JA, Krupen, K, Pierce, CW, Sorensen, CM and Turck, CW (1986) Factors from T suppressor cells: Current status and perspectives. In: Advances in Immunopharmacology, Proc. of the 3rd Intern. Immunopharmacology Meet.
7. Aliakbari, J, Sreedharan, SP, Turck, CW and Goetzl, EJ. (1987) Selective localization of vasoactive intestinal peptide and substance P in human eosinophils. Biochem Biophys Res Comm 148:1440-1445. [[Pubmed](#)]
8. Loh, EY, Lanier, LL, Turck, CW, Littman, DR, Davis, MM, Chien, Y-H and Weiss, A. (1987) Identification and sequence of a fourth human T cell antigen receptor chain. Nature 330:569-572. [[Pubmed](#)]
9. Turck, CW, Dohlman, JG and Goetzl, EJ. (1987) Immunological mediators of wound healing and fibrosis. J Cell Physiol (Suppl.) 5:89-93. [[Pubmed](#)]
10. Webb, DR, Turck, CW, Mensi, N, Kapp, JA and Kraig, E. (1987) Structural relationships among antigen specific suppressor factors and the T-cell antigen receptor for the terpolymer L-glutamic acid⁶⁰-L-alanine³⁰-L-tyrosine¹⁰. J Cell Biochem (Suppl.S11D) 35:222. [[Wiley Interscience](#)]
11. Beisiegel, U, Weber, W, Havinga, JR, Ihrke, G, Hui, DY, Wernette-Hammond, ME, Turck, CW, Innerarity, TL and Mahley, RW. (1988) Apolipoprotein E-binding proteins isolated from dog and human liver. Arteriosclerosis 8:288-297. [[Pubmed](#)]

- 12.Goetzl, EJ, Sreedharan, SP and Turck, CW. (1988) Structurally distinctive vasoactive intestinal peptides from rat basophilic leukemia cells. *J Biol Chem* 263:9083-9086. [[Pubmed](#)]
- 13.Turck, CW, Tom, JW, Kennedy, PW and Goetzl, EJ. (1988) Isolation and partial characterization of a fibroblast-activating factor generated by U937 human monocytes. *J Immunol* 141:1225-1230. [[Pubmed](#)]
- 14.Goetzl, EJ, Finch, RJ, Peterson, KE, Turck, CW and Sreedharan, SP. (1989) Mast cell and basophil mediation of lymphocyte functions. In: *Mast cell and basophil differentiation and function in health and disease*. Galli, SJ and Austen, KF., eds., Raven Press, New York, 247-254.
- 15.Goetzl, EJ, Kodama, KT, Turck, CW, Schiogolev, SA and Sreedharan, SP. (1989) Unique pattern of cleavage of vasoactive intestinal peptide by human lymphocytes. *Immunol* 66:554-558. [[Pubmed](#)]
- 16.Goetzl, EJ, Sreedharan, SP, Turck, CW, Bridenbaugh, R and Malfroy, B. (1989) Preferential cleavage of amino- and carboxyterminal oligopeptides from vasoactive intestinal polypeptide by human recombinant enkephalinase (Neutral endopeptidase, EC 3.4.24.11). *Biochem Biophys Res Comm* 158:850-854. [[Pubmed](#)]
- 17.Goetzl, EJ, Turck, CW, Peterson, KE, Finch, RJ, Kodama, KT, Adelman, DC and Sreedharan, SP. (1989) Neuromediators of immunity and inflammation. In: *Progress in Immunol*. Melchers, F., ed., Springer Verlag, Berlin, 772-779.
- 18.Kissel, JA, Fontaine, RN, Turck, CW, Brockman, HL and Hui, DY. (1989) Molecular cloning and expression of cDNA for rat pancreatic cholesterol esterase. *Biochem Biophys Acta* 1006:227-236. [[Pubmed](#)]
- 19.McGillis, JP, Park, A, Rubin-Fletter, P, Turck, CW, Dallman, MF and Payan, DG. (1989) Corticotropin-releasing factor stimulates rat lymphocyte proliferation. *J Neurosci Res* 23:346-352. [[Pubmed](#)]
- 20.Turck, CW, Kennedy, PW, Schiogolev, SA and Goetzl, EJ. (1989) Diverse responses of human fibroblasts to a highly-purified fibroblast activating factor (FAF) from the U937 line of human monocytes. *Immunol* 68:410-415. [[Pubmed](#)]
- 21.Adolff, CA, Golden, JA, Gamsu, G, Goetzl, EJ and Turck, CW. (1990) Reduction in pulmonary fibroblast-stimulating activity as an index of response to treatment of interstitial lung diseases. *New England J Med* 322:1890-1891. [[Pubmed](#)]
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- 23.Goetzl, EJ, Grotmol, T, Van Dyke, RW, Turck, CW, Wershil, B, Galli, SJ. and Sreedharan, SP. (1990) Generation and recognition of vasoactive intestinal peptide by cells of the immune system. *Ann NY Acad Sci* 594:34-44. [[Pubmed](#)]
- 24.Mensi, N, Webb, DR, Turck, CW and Peltz, GA. (1990) Characterization of *Borrelia burgdorferi* proteins reactive with antibodies in synovial fluid of a patient with lyme arthritis. *Infect Immun* 58:2404-2407. [[Pubmed](#)]
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47. Hahm, K, Kim, G, Turck, CW and Smale, ST. (1993) Isolation of a murine gene encoding a nucleic acid-binding protein with homology to HNRNP-K. Nucleic Acids Res 11:3894. [\[PubMed\]](#)
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51. Lahesmaa, R, Shanafelt, M-C, Allsup, A, Soderberg, C, Anzola, J, Turck, CW, Steinmann, L and Peltz, G. (1993) Preferential usage of T-cell antigen receptor-V region gene segment V-beta-5.1 by *Borrelia-burgdorferi* antigen-specific T-cell clones isolated from a patient with lyme disease. J Immunol 150:4125-4135. [\[PubMed\]](#)
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55. Tsirka, SE, Turck, CW and Coffino, P. (1993) Multiple active conformers of mouse ornithine decarboxylase. Biochem J 293:289-295. [\[PubMed\]](#)

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58. Wang, Z-E, Reiner, SL, Hatam, F, Heinzl, FP, Bouvier, J, Turck, CW and Locksley, RM. (1993) Targeted activation of CD8 cells and infection of b2-microglobulin-deficient mice fail to confirm a primary protective role for CD8 cells in experimental Leishmaniasis. *J Immunol* 151:2077-2086. [[PubMed](#)]
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