

Curriculum Vitae

Personal information **Erich Schneider**

Work experience

1. Employer: Federal Institute for Drugs and Medical Devices
 - Start date: 072018
 - End date:
 - Position: Scientist (Clinical Assessor)
 - Activities: Assessment of applications for marketing authorization, variations, renewals (DCP and CP) Scientific Advice
 - Country: Germany
2. Employer: Hannover Medical School
 - Start date: 082012
 - End date: 062018
 - Position: Assistant Professor (Juniorprofessor), Institute of Pharmacology
 - Activities: Research Projects: 1. Neurobiochemical and behavioral characterization of hypoxanthine guanine phosphoribosyltransferase (HGPRT) deficient mice 2. Biological effects and metabolism of the non-canonical cyclic nucleotides 3',5'-cCMP and 3',5'-cUMP 3. Electrophysiological and neurobiochemical characterization of ACKR1 (atypical chemokine receptor 1) deficient mice Teaching and laboratory courses for: _ Medical and Biomedical Students _ Biochemistry students
 - Country: Germany
3. Employer: National Institutes of Health (NIAID, Laboratory of Molecular Immunology, Molecular Signaling Section)
 - Start date: 082009
 - End date: 072012
 - Position: Visiting fellow
 - Activities: Research projects: 1. Behavioral characterization of atypical chemokine receptor 1 (Ackr1) knockout mice 2. Pharmacological characterization of the formyl peptide receptor FPR1 in human lens epithelial cells
 - Country: United States
4. Employer: University of Regensburg, Dept. of Pharmacology
 - Start date: 042005
 - End date: 072009
 - Position: Postdoctoral fellow
 - Activities: Research projects: Pharmacological characterization of the histamine H4R in Sf9 insect cell membranes Teaching and/or laboratory courses for: Medical students and students of pharmacy and dentistry
 - Country: Germany

Education and training

1. Subject: University of Regensburg, Dept. of Medicinal Chemistry II
 - Start date: 082001
 - End date: 032005
 - Qualification: PhD
 - Organisation: Development of a flow cytometric method for the simultaneous determination of receptor selectivity, activity and affinity of neuropeptide Y receptor ligands at NPY Y1, Y2 and Y5 receptors. Synthesis and characterization of fluorescent NPY derivatives and small molecule NPY Y1 receptor ligands
 - Country: Germany
2. Subject: University of Regensburg, Aesculap_Apotheke Regensburg
 - Start date: 101995
 - End date: 062001
 - Qualification: License to work as a pharmacist
 - Organisation:
 - Country: Germany

Additional information

Publications

ORIGINAL PUBLICATIONS Gao JL, Weaver JD, Tuo J, Wang LQ, Siwicki M, Despres D, Lizak M, Schneider EH, Kovacs W, Maminishkis A, Chen K, Yoshimura T, Ming Wang J, Chao Chan C, Murphy PM. (2021) "Leukocyte chemotactic receptor Fpr1 protects against aging-related posterior subcapsular cataract formation." FASEB J. 35(2):e21315. doi: 10.1096/fj.202002135R Schneider EH, Hofmeister O, Kälble S, Seifert R (2020) "Apoptotic and anti-proliferative effect of guanosine and guanosine derivatives in HuT_78 T lymphoma cells.", Naunyn Schmiedeberg's Arch Pharmacol. 393:1251_1267 Scharrenbroich J, Kaever V, Dove S, Seifert R, Schneider EH (2019) "Hydrolysis of the non-canonical cyclic nucleotide cUMP by PDE9A: kinetics and binding mode.", Naunyn Schmiedeberg's Arch Pharmacol., 392:199_208 Ostermeyer J, Golly F, Kaever V, Dove S, Seifert R, Schneider EH (2018) "cUMP hydrolysis by PDE3B.", Naunyn Schmiedeberg's Arch Pharmacol., 391:891_905 Berrisch S, Ostermeyer J, Kaever V, Kälble S, Hilfiker_Kleiner D, Seifert R, Schneider EH (2017) "cUMP hydrolysis by PDE3A.", Naunyn Schmiedeberg's Arch Pharmacol., 390:269_280 Tschirner SK, Bähre H, Kaever A, Schneider EH, Seifert R, Kaever V (2016) "Non-targeted metabolomics by high resolution mass spectrometry in HPRT knockout mice.", Life Sci, 156:68_73 Tschirner SK, Gutzki F, Schneider EH, Seifert R, Kaever V (2016) "Neurotransmitter and their metabolite concentrations in different areas of the HPRT knockout mouse brain.", J Neurol Sci, 365:169_174 Tschirner SK, Gutzki F, Kaever V, Seifert R, Schneider EH (2015) "Altered histamine neurotransmission in HPRT_deficient mice.",

Neurosci Lett, 609:74_80 Werner K, Kälble S, Wolter S, Schneider EH et al. (2015) "Flow cytometric analysis with a fluorescently labeled formyl peptide receptor ligand as a new method to study the pharmacological profile of the histamine H2 receptor.", Naunyn Schmiedeberg's Arch Pharmacol, 388:1039_1052 Monzel M, Kuhn M, Bähre H, Seifert R, Schneider EH (2014) "PDE7A1 hydrolyzes cCMP.", FEBS Lett, 588:3469_3474 Schneider EH, Fowler SC, Lionakis MS, Swamydas M, Holmes G, Diaz V, Munasinghe J, Peiper SC, Gao JL, Murphy PM (2014) "Regulation of motor function and behavior by atypical chemokine receptor 1.", Behav Genet, 44:498_515 Ojode T, Schneider EH, Tiffany HL, Yung S, Gao JL, Murphy PM (2013) "The major leukocyte chemotactic and activating factors in the mouse gut lumen are not N-formylpeptide receptor 1 agonists.", J Innate Immun, 5:2_14 Schneider EH, Weaver JD, Gaur SS, Tripathi BK, Jesaitis AJ, Zelenka PS, Gao JL, Murphy PM (2012) "The leukocyte chemotactic receptor FPR1 is functionally expressed on human lens epithelial cells.", J Biol Chem, 287:40779_40792 Gao JL, Schneider EH, Haun F, Pham TM, Mohammed AH, Murphy PM (2011) "Reduced fear memory and anxiety-like behavior in mice lacking formylpeptide receptor 1.", Behav Genet, 41:724_733 Schnell D, Brunscole I, Ladova K, Schneider EH, Igel P, Dove S, Buschauer A, Seifert R (2011) "Expression and functional properties of canine, rat, and murine histamine H4 receptors in Sf9 insect cells.", Naunyn Schmiedeberg's Arch Pharmacol, 383:457_470 Kottke T, Sander K, Weizel L, Schneider EH, Seifert R, Stark H (2011) "Receptor-specific functional efficacies of alkyl imidazoles as dual histamine H3/H4 receptor ligands.", Eur J Pharmacol, 654:200_208 Geiger S, Nickl K, Schneider EH, Seifert R, Heilmann J (2010) "Establishment of recombinant cannabinoid receptor assays and characterization of several natural and synthetic ligands.", Naunyn Schmiedeberg's Arch Pharmacol, 382:177_191 Schneider EH, Strasser A, Thurmond RL, Seifert R (2010) "Structural requirements for inverse agonism and neutral antagonism of indole-, benzimidazole- and thienopyrrole-derived histamine H4R ligands.", J Pharmacol Exp Ther, 334:513_521 Sander K, Kottke T, Hoffend C, Walter M, Weizel L, Camelin JC, Ligneau X, Schneider EH, Seifert R, Schwartz JC, Stark H (2010) "First metal-containing histamine H3 receptor ligands.", Org Lett, 12:2578_2581 Schneider EH, Schnell D, Strasser A, Dove S, Seifert R (2010) "Impact of the DRY motif and the missing 'ionic lock' on constitutive activity and G-protein coupling of the human histamine H4 receptor.", J Pharmacol Exp Ther, 333:382_392 Schneider EH, Seifert R (2009) "Histamine H4 receptor-RGS fusion proteins expressed in Sf9 insect cells: A sensitive and reliable approach for the functional characterization of histamine H4 receptor ligands.", Biochem Pharmacol, 78:607_616 Igel P, Schneider E, Schnell D, Elz S, Seifert R, Buschauer A (2009) "NG-acylated imidazolylpropyl-guanidines as potent histamine H4 receptor agonists: selectivity by variation of the NG-substituent.", J Med Chem, 52:2623_2627 Sander K, Kottke T, Tanrikulu Y, Proschak E, Weizel L, Schneider EH, Seifert R, Schneider G, Stark H (2009) "2,4-Diaminopyrimidines as histamine H4 receptor ligands – Scaffold optimization and pharmacological characterization.", Bioorg Med Chem, 17:7186_7196 Schneider EH, Schnell D, Papa D, Seifert R (2009) "High constitutive activity and a G-protein-independent high-affinity state of the human histamine H4-receptor.", Biochemistry, 48:1424_1438 Tanrikulu Y, Proschak E, Werner T, Geppert T, Todoroff N, Klenner A, Kottke T, Sander K, Schneider E, Seifert R, Stark H, Clark T, Schneider G (2009) "Homology model adjustment and ligand screening with a pseudoreceptor of the human histamine H4 receptor.", ChemMedChem, 4:820_827 Fuchs W, Seifert R, Schneider E, Schnell D, Haen E (2008) "Agranulocytosis and neutropenia in patients treated with antipsychotic drugs with focus on clozapine.", Psychopharmakotherapie, 15:126_130 Ghorai P, Kraus A, Keller M, Götte C, Igel P, Schneider E, Schnell D, Bernhardt G, Dove S, Zabel M, Elz S, Seifert R, Buschauer A (2008) "Acylguanidines as bioisosteres of guanidines: NG-acylated imidazolylpropylguanidines, a new class of histamine H2 receptor agonists.", J Med Chem, 51:7193_7204 Schneider E, Keller M, Brennauer A, Hoefelschweiger B, Gross D, Wolfbeis O, Bernhardt G, Buschauer A (2007) "Synthesis and characterization of the first fluorescent nonpeptide NPY Y1 receptor antagonist.", ChemBioChem, 8:1981_1988 Ziemek R, Schneider E, Kraus A, Cabrele C, Beck-Sickinge AG, Bernhardt G, Buschauer A (2007) "Determination of affinity and activity of ligands at the human neuropeptide Y Y4 receptor by flow cytometry and aequorin luminescence.", J Recept Signal Transduct, 27:217_233 Schneider E, Mayer M, Ziemek R, Li L, Hutzler C, Bernhardt G, Buschauer A (2006) "A simple and powerful flow cytometric method for the simultaneous determination of multiple parameters at G protein-coupled receptor subtypes.", ChemBioChem, 7:1400_1409 Ziemek R, Brennauer A, Schneider E, Cabrele C, Beck-Sickinge AG, Bernhardt G, Buschauer A (2006) "Fluorescence- and luminescence-based methods for the determination of affinity and activity of neuropeptide Y2 receptor ligands.", Eur J Pharmacol, 551:10_18 Xie SX, Petrache G, Schneider E, Ye QZ, Bernhardt G, Seifert R, Buschauer A (2006) "Synthesis and pharmacological characterization of novel fluorescent histamine H2-receptor ligands derived from aminopotentinine.", Bioorg Med Chem Lett, 16:3886_3890 Li L, Mayer M, Schneider E, Schreiber E, Bernhardt G, Peng S, Buschauer A (2003) "Preparation of fluorescent nonpeptidic neuropeptide Y receptor ligands: analogues of the quinazoline-type anti-obesity Y5 antagonist CGP 71683A.", Arch Pharm (Weinheim), 336:585_590 REVIEW ARTICLES Schneider EH, Seifert R (2016) "The histamine H4-receptor and the central and peripheral nervous system: A critical analysis of the literature.", Neuropharmacology, 106:116_128 Seifert R, Schneider EH, Bähre H (2015) "From canonical to non-canonical cyclic nucleotides as second messengers.", Pharmacol Ther, 148:154_184 Strasser A, Wittmann H-J, Schneider EH, Seifert R (2015) "Modulation of GPCRs by monovalent cations and anions: pharmacological implications.", Naunyn Schmiedeberg's Arch Pharmacol, 388:363_380 Schneider EH, Neumann D, Seifert R (2014) "Modulation of behavior by the histaminergic system: lessons from HDC-, H3R- and H4R-deficient mice.", Neurosci Biobehav Rev, 47:101_121 Schneider EH, Neumann D, Seifert R (2014) "Modulation of behavior by the histaminergic system: lessons from H1R- and H2R-deficient mice.", Neurosci Biobehav Rev, 42:252_266 Neumann D, Schneider EH, Seifert R (2014) "Analysis of histamine receptor knockout mice in models of inflammation.", J Pharmacol Exp Ther, 348:2_11 Strasser A, Wittmann HJ, Buschauer A, Schneider EH, Seifert R (2013) "Species-dependent activities of G-protein-coupled receptor ligands: lessons from histamine receptor orthologs.", Trends Pharmacol Sci, 34:13_32 Seifert R, Strasser A, Schneider EH, Neumann D, Dove S, Buschauer A (2013) "Molecular and cellular analysis of human histamine receptor subtypes.", Trends Pharmacol Sci, 34:33_58 Seifert R, Schneider EH, Dove S, Brunscole I, Neumann D, Strasser A, Buschauer A (2011) "Paradoxical stimulatory effects of the 'standard' histamine H4-receptor antagonist JNJ777120: the H4 receptor joins the club of 7 transmembrane domain receptors exhibiting functional selectivity.", Mol Pharmacol, 79:631_638 Schneider EH, Seifert R (2010) "Sf9 cells: A versatile model system to investigate the pharmacological properties of G protein-coupled receptors.", Pharmacol Ther, 128:387_418 BOOK CHAPTERS, COMMENTS AND EDITORIALS ETC. Schneider EH (2019) "Microglial histamine H4R in the pathophysiology of Parkinson's disease – a new actor on the stage?", Naunyn Schmiedeberg's Arch Pharmacol, 392:641_645 Schneider EH (2017) "New perspectives for a well-known biogenic amine: mast cell-derived histamine as pathophysiological agent in vincristine-induced neuropathic pain.", Naunyn Schmiedeberg's Arch Pharmacol, 390:1085_1086 Schneider EH, Seifert R (2017) "Pharmacological characterization of human histamine receptors and histamine receptor mutants in the Sf9 cell expression system.", Handb Exp Pharmacol 241:63_118 Schneider EH, Seifert R (2017) "Inactivation of non-canonical cyclic nucleotides: hydrolysis and transport.", Handb Exp Pharmacol 238:169_205 Schneider EH, Neumann D, Seifert R (2015) "Histamine H4-receptor expression in the brain? (Editorial)", Naunyn Schmiedeberg's Arch Pharmacol, 388:5_9 Schneider EH, Seifert R (2015) "Report on the third symposium 'cCMP and cUMP as new second messengers'", Naunyn Schmiedeberg's Arch Pharmacol, 388:1_3 Schneider EH, Seifert R (2010) "Coexpression systems as models for the analysis of constitutive GPCR activity.", Methods Enzymol, 485:459_480 Schneider EH, Seifert R (2010) "Fusion proteins as model systems for the analysis of constitutive GPCR activity.", Methods Enzymol, 485:527_557

Projects

Memberships

Royal Society of Medicine Signal Transduction Society (STS) German Society for Experimental and Clinical Pharmacology and Toxicology (DGPT) German Pharmaceutical Society (DPHG) Editorial Board Member at Naunyn-Schmiedeberg's Archives of Pharmacology

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