

Academic curriculum vitae

Personal Data

Name Sophia Khom-Steinkellner
Nationality Austrian

Current position Assistant Professor (tenure track)

Contact

Department of Pharmaceutical Sciences
University of Vienna
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A-1090 Vienna
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Main research areas

Neuropeptides, novel drug targets, GABA and glutamate, alcohol use disorder, drugs of abuse electrophysiology, behavioural pharmacology, ion channel pharmacology, pharmaceutical bioanalysis

Education

2006-2009 PhD studies at the Department of Pharmacology and Toxicology, University of Vienna, Austria, graduation with distinction
2000-2006 Magister studies of Pharmacy at the University of Vienna, Austria

Research Record

2006-2009 University Assistant (*pre-doctoral level*), Department of Pharmacology and Toxicology, University of Vienna
2008 Internship, Department of Pharmacology, Medical University of Innsbruck
2009-2010 University Assistant (*post-doctoral level*), Department of Pharmacology and Toxicology, University of Vienna
2010-2011 Practical training (one-year) in pharmacy for approbation as pharmacist
2011-2012 Program Manager of the Doctoral Program "Molecular Drug Targets", University of Vienna
2013-2015 University Assistant (*post-doctoral level*), Department of Pharmacology and Toxicology, University of Vienna
2014 Visiting Scholar, Institute de neurobiologie de la mediterranee, Marseille, France
2015-2020 Research Associate, Department of Molecular Medicine, Scripps Research
07/2020-2021- Professional Scientific collaborator, Scripps Research
Assistant Professor (Tenure Track), Department of Pharmaceutical Sciences, University of Vienna

Awards and honors (last 5 years)

2017 Travel Award (4th International Congress on Alcoholism and Stress, Volterra)
2019 Larry Parson's Travel Award RSA 2019
2019 Symposium Organizer and Chair at the Meeting of the European Society of Biomedical Research on Alcoholism (ESBRA)
2019 Selected to AAAS/Science Program for Excellence in Science

2020	Travel Award (5 th International Congress on Alcoholism and Stress, Volterra)
2020	Symposium Organizer and Chair at the Meeting of Research Society on Alcoholism
2021	Symposium Organizer and Chair at the Meeting of Research Society on Alcoholism

Independent funding

Erwin Schrödinger Fellowship “Substance P effects on the IIC-CeA circuit in alcoholism”

Funding Agency: Austrian Science Fund FWF

Duration: 08/2016-08/2018

Publication record: <https://pubmed.ncbi.nlm.nih.gov/?term=Khom+S>

29 publications (average IF: 5.99)

H-index 16; 904 Citations (google scholar)

5 most important publications

1. Alcohol Dependence and Withdrawal Impair Serotonergic Regulation of GABA Transmission in the Rat Central Nucleus of the Amygdala.
Khom S, Wolfe SA, Patel RR, Kirson D, Hedges DM, Varodayan FP, Bajo M, Roberto M. *J Neurosci.* 2020 Sep 2;40(36):6842-6853. doi: 10.1523/JNEUROSCI.0733-20.2020.
2. Microglia Control Escalation of Drinking in Alcohol-Dependent Mice: Genomic and Synaptic Drivers.
Warden AS*, Wolfe SA*, **Khom S***, Varodayan FP*, Patel RR, Steinman MQ, Bajo M, Montgomery SE, Vlkolinsky R, Nadav T, Polis I, Roberts AJ, Mayfield RD, Harris RA, Roberto M. *Biol Psychiatry.* 2020 Dec 15;88(12):910-921. doi: 10.1016/j.biopsych.2020.05.011.
* equal contribution
3. Alcohol dependence potentiates substance P/neurokinin-1 receptor signaling in the rat central nucleus of amygdala.
Khom S[§], Steinkellner T, Hnasko TS, Roberto M[§]. *Sci Adv.* 2020 Mar 18;6(12):eaaz1050. doi: 10.1126/sciadv.aaz1050. eCollection 2020 Mar.
[§]corresponding author
4. Synthetic, Mechanistic, and Biological Interrogation of *Ginkgo biloba* Chemical Space En Route to (-)-Bilobalide.
Demoret RM, Baker MA, Ohtawa M, Chen S, Lam CC, **Khom S**, Roberto M, Forli S, Houk KN, Shenvi RA. *J Am Chem Soc.* 2020 Oct 28;142(43):18599-18618. doi: 10.1021/jacs.0c08231.
5. Oxytocin blocks enhanced motivation for alcohol in alcohol dependence and blocks alcohol effects on GABAergic transmission in the central amygdala.
Tunstall BJ*, Kirson D*, Zallar LJ, McConnell SA, Vendruscolo JCM, Ho CP, Oleata CS, **Khom S**, Manning M, Lee MR, Leggio L, Koob GF, Roberto M, Vendruscolo LF. *PLoS Biol.* 2019 Apr 16;17(4):e2006421. doi: 10.1371/journal.pbio.2006421.