

**Prof. Dr. RAINER SPANAGEL****1) General information**

Date of birth: 24 June, 1961  
 Gender: Male  
 Address: Heidelberg University  
 Medical Faculty Mannheim  
 Department of Psychiatry and  
 Psychotherapy  
 Central Institute for Mental Health  
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 E-mail: rainer.spanagel@zi-mannheim.de  
 Current position: Scientific Director of the Institute of Psychopharmacology (W3)  
 Children: Two (\*1991, \*2006)  
 Parental leave, if applicable: None

**2) University training and degree**

1983 - 1989 Universities of Tübingen and Munich (Biology)

**3) Advanced academic qualifications**

1996 Habilitation, Pharmacology & Toxicology, University of Munich, Germany,  
 Prof. Wolfgang Forth  
 1991 Ph.D., Neuropharmacology, Max Planck Institute of Neuropharmacology,  
 Martinsried, Germany. Supervisor: Prof. Albert Herz  
 1989 Diploma Neuropharmacology, Max Planck Institute of Neuropharmacology  
 Martinsried, Germany

**4) Postgraduate professional career**

Since 2011 Scientific Director of the Institute of Psychopharmacology at the CIMH,  
 Mannheim, Germany  
 Since 2006 W3 Professor and member of the Board of Directors at the Central Institute of  
 Mental Health (CIMH), Mannheim, Germany  
 Since 2000 Department Head of Psychopharmacology at the CIMH, Mannheim, Germany  
 1999 - 2000 Professor for Psychopharmacology at the University of Heidelberg, Germany  
 1995 - 1999 Head of the Research Group "Drug Addiction" at the Max Planck Institute of  
 Psychiatry, Munich, Germany  
 1991 - 1995 Scientific assistant at the Max Planck Institute of Psychiatry, Munich (Prof.  
 Florian Holsboer), Germany

**5) Other**Awards and honours:

2019 H. David Archibald Lectureship Award from CAMH, Toronto  
 2018 IBANGS Distinguished Investigator Award

2017	European Alcohol Research Award, ESBRA
2015	NEATOR Award from American College of Neuropsychopharmacology
2011	AGNP Award for Excellence in Psychopharmacology
2010	Reinhart-Koselleck-Award from the DFG
2008	James B. Isaacson Award
2005	Albrecht-Ludwig-Berblinger Award
2003	Sir Hans Krebs Award
1998	Wilhelm Feuerlein Award for Alcohol Research

Panels and coordinating functions

Since 2005	Executive member of the Society of Studies on Addiction (SSA)
Since 2008	Executive member of the International Society of Biomedical Research on Alcoholism (ISBRA), and the ECNP (SAB)
Since 2005	MEMBERSHIPS OF SCIENTIFIC SOCIETIES: Member of F1000 (Pharmacology Section) Member of ISBRA, RSA, ESBRA, EBPS, ISN, DGPT, AGNP, NWG
2014 - 2018	Scientific Advisory Board of the European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) in Lisbon
2016 - 2018	President of the International Society of Biomedical Research on Alcoholism (ISBRA)
2016	President and Organizer of the World Congress on Alcohol Research in Berlin
2014 - 2018	Coordinator of the German Research Network on Systems Medicine in Alcohol Addiction (e:Med)
2008 - 2017	Member of Scientific Advisory Board of ECNP
2008 - 2014	Coordinator of the German Research Network on Genetics of Alcoholism (NGFN)
2020 - present	Spokesperson of the e:Med Project Committee ( <a href="http://www.sys-med.de/en/emed/players/project-committee">www.sys-med.de/en/emed/players/project-committee</a> )
2019 - 2022	Coordinator of the European Psi-Alc Consortium <a href="http://www.psialc.org">www.psialc.org</a>
2019 - 2022	Coordinator of the German Research Network on Systems Medicine in Drug Addiction e:Med
2021	Founder of the 3R Center Rhein/Neckar that includes Heidelberg University and CIMH

Editorial boards:

2003 - 2016	Member of the Editorial Board Alcoholism Clinical and Experimental Research
2003 - 2009	Member of the Editorial Board of Addiction
Since 2005	Editor-in-Chief of 'Addiction Biology'
2009 - 2019	Associate Editor of Frontiers in Behavioral Neuroscience
Since 2010	Associate Editor of Substance Abuse and Rehabilitation
Since 2011	Associate Editor of Frontiers in Genetics
Since 2011	Member of the Editorial Board of Behavioural Brain Research
2012 - 2018	Editor-in-Chief 'In silico Pharmacology'
2014 - 2020	Member of the Editorial Board of Journal of Neurochemistry
2015 - 2020	Member of the Editorial Board of International Journal of Neuropsychopharmacology

Since 2016	Member of the Editorial Board Genes
2016 - 2018	Member of the Editorial Board of Naunyn-Schmiedeberg's Archives of Pharmacology
2019 -	Specialty Chief Editor of Frontiers of Behavioural Neuroscience

## 6) Publications

### A)

- Meinhardt MW, Pfarr S, Rohleder C, Vengeliene V, Barroso-Flores J, Hoffmann R, Meinhardt ML, Paul E, Hansson AC, Köhr G, Meier N, von Bohlen und Halbach O, Bell RL, Endepols H, Schönig K, Bartsch D, Naassila M, Spanagel R\*, Sommer WH\*. Psilocybin targets a common molecular mechanism for cognitive impairment and increased craving in alcoholism. **Science Advances**; 7(47):eabh2399, 2021.
- Noori HR, Mervin LH, Bokharaie V, Durmus Ö, Egenrieder L, Fritze S, Gruhlke B, Reinhardt G, Schabel HH, Staudenmaier S, Logothetis NK, Bender A, Spanagel R (2018) Systemic neurotransmitter responses to clinically approved and experimental neuropsychiatric drugs. **Nature Communication**; 9(1):4699, 2018.
- Hirth N, Meinhardt MW, Noori HR, Salgado H, Torres-Ramirez O, Uhrig S, Broccoli L, Vengeliene V, Rossmann M, Perreau-Lenz S, Kohr G, Sommer WH, Spanagel R\*, Hansson AC. Convergent evidence from alcohol-dependent humans and rats for a hyperdopaminergic state in protracted abstinence. **PNAS**; 113(11):3024-3029, 2016.
- Wiens F, Zitzmann A, Lachance MA, Yegles M, Pragst F, Wurst FM, von Holst D, Guan SL, Spanagel R. Chronic intake of fermented floral nectar by wild treeshrews. **PNAS**; 105(30):10426-10431, 2008.
- Engblom D, Bilbao A, Sanchis-Segura C, Dahan L, Perreau-Lenz S, Balland B, Parkitna JR, Lujan R, Halbout B, Mameli M, Parlato R, Sprengel R, Luscher C, Schutz G, Spanagel R. Glutamate receptors on dopamine neurons control the persistence of cocaine seeking. **Neuron**; 59(3):497-508, 2008.
- Spanagel R, Pendyala G, Abarca C, Zghoul T, Sanchis-Segura C, Magnone MC, Lascorz J, Depner M, Holzberg D, Soyka M, Schreiber S, Matsuda F, Lathrop M, Schumann G, Albrecht U. The clock gene Per2 influences the glutamatergic system and modulates alcohol consumption. **Nature Medicine**; 11(1):35-42, 2005.
- Sillaber I, Rammes G, Zimmermann S, Mahal B, Zieglgansberger W, Wurst W, Holsboer F, Spanagel R. Enhanced and delayed stress-induced alcohol drinking in mice lacking functional CRH1 receptors. **Science**; 296(5569):931-933, 2002.
- Abarca C, Albrecht U, Spanagel R. Cocaine sensitization and reward are under the influence of circadian genes and rhythm. **PNAS**; 99(13):9026-9030, 2002.
- Timpl P, Spanagel R\*, Sillaber I, Kresse A, Reul JM, Stalla GK, Blanquet V, Steckler T, Holsboer F, Wurst W. Impaired stress response and reduced anxiety in mice lacking a functional corticotropin-releasing hormone receptor 1. **Nature Genetics**; 19(2):162-166, 1998.
- Spanagel R, Herz A, Shippenberg TS. Opposing tonically active endogenous opioid systems modulate the mesolimbic dopaminergic pathway. **PNAS**; 89(6):2046-2050, 1992.

\*Equally contributing authors

**B) other publications: -**

**C) Patents:**

Granted:

EU patent (2016) EU Patent Application No 14155868.4 - Mutated Receptor Polypeptide and Use Thereof