

CV

Prof. Dr. med. Matthias Emanuel Liechti, MAS

Address

Division of Clinical Pharmacology and Toxicology
Dept. Internal Medicine
University Hospital Basel
Hebelstrasse 32
CH-4031 Basel
Switzerland

E-mail matthias.liechti@usb.ch
Phone 061 328 68 68
Fax 061 265 45 60

Origin Zurich, Switzerland
Date of Birth 27. Mai 1970, Zurich



Formation

02.96 – 07.96 Faculté de Médecine de Montpellier, France
08.97 – 09.97 Mount Sinai Hospital, New York, US
10.92 – 10.98 Medical School, University of Zurich, Switzerland

Doctorate

06.1999 Psychological and physiological effects of MDMA (Ecstasy) in humans. Prof. F.X. Vollenweider and Prof. D. Hell

Postgraduate training

12.98 – 12.99 Postdoctoral researcher, Psychiatric University Hospital Zurich, Prof. F.X. Vollenweider and Prof. D. Hell
01.00 – 06.01 Clinical fellow, surgery, Spital Uster, Prof. G. Melcher
07.01 – 12.02 Clinical fellow, internal medicine, Limmattalspital, Dr. B. Caduff
01.03 - 05.05 Clinical fellow, internal medicine, University Hospital Zurich, Prof. F. Follath
07.05 – 06.06 Research Associate, Molecular and Integrative Neuroscience Department, The Scripps Research Institute, La Jolla, CA, USA. Prof. A. Markou
07.06 - 12.07 Postdoctoral Researcher, Department of Psychiatry, School of Medicine, University of California, San Diego, La Jolla, USA. Prof. A. Markou and Prof. R. Kuzenski
06.05 – 06.07 Master in Advanced Studies (MAS) in Clinical Research, University of California, San Diego, CA
01.08 – 01.09 Clinical fellow, Division of Clinical Pharmacology and Toxicology, Department of Internal Medicine, University Hospital Basel, Prof. S. Krähenbühl
02.09-12.09 Senior physician Division of Clinical Pharmacology and Toxicology
10.2009 Research Group Leader (PI) Psychopharmacology, Department of Biomedicine, University Hospital Basel
08.2009- Senior physician, Policlinic of Internal Medicine, Department of Internal Medicine, University Hospital Basel
1.2010- Senior attending physician, Division of Clinical Pharmacology and Toxicology

Diploma/Titles

1998	Physician
1999	MD (medical doctor thesis)
2004	Board certification internal medicine
2007	CREST (clinical research enhancement through supplemental training) certificate, UCSD, USA
2007	MAS Clinical Research (UCSD, USA)
30.9.2009	PD (venia docendi, Faculty of Medicine, University of Basel)
2010	Board certification clinical pharmacology & toxicology
10.2013	Associate professor of medicine and clinical pharmacology (Titularprofessur) University of Basel

Professional organizations

- Swiss Physicians Association (FMH)
- Swiss Society of Clinical Pharmacology and Toxicology (SKPT)
- European College of Neuropsychopharmacology (ECNP)
- Pharma Center of Excellence of the University of Basel
- Neurex Neuroscience Network Upper Rhine Valley
- Neuroscience Network Basel
- Swiss Society of Neuroscience
- International Society for Serotonin Research

Advisory board memberships

- Psychiatry advisory board Sandoz Switzerland (since 2009).
- External Medical Expert for the Committee of Experts on minimizing public health risks posed by counterfeit medical products by the European Directorate for the Quality of Medicines & Health Care (EDQM) of the Council of Europe (2012).

Journal and grant reviewer for the following journals/institutions

British Journal of Pharmacology, Biochemistry, Pharmacology and Behavior, Clinical Chemistry, American Journal of Psychiatry, Neuropsychopharmacology, Journal of Neuroscience, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Neuropharmacology, Psychoneuroendocrinology, Neuroscience Letters, Journal of Psychopharmacology, Psychopharmacology, Drug and Alcohol Dependence, Pharmacological Research, Biochemical Pharmacology, Swiss Medical Weekly, PLoS ONE, Critical Reviews in Toxicology, Humana/Elsevier, BMC Psychiatry, Social Cognitive and Affective Neuroscience, Health Research Board of Ireland, Dutch Science Board, Österreichische Akademie der Wissenschaften.

Trainings/certificates

- University didactics certificate, University of Basel Switzerland, 2008
- Lecturer Faculty of Pharmaceutical Sciences (Lehrauftrag), University of Basel, 2008
- Good Clinical Practice Certificate and Prüfarztkurs University of Zurich, 2004
- Animal project leader authorization (Labortierleiterkurs 2) 2008
- European Center of Pharmaceutical Medicine (ECPM) 2009-2011

Leadership & Management trainings

- Basic Management Course, Swiss Society of Physicians 8.-12.2002

- Personal Development Seminar, CLRE-258, University of California San Diego, Managing people/teams, Conflict Resolution, Communication and interpersonal skills, 17. Jan – 21. Feb 2006 20 h Seminar und 40 h homework.
- Budgeting and Project Management, Professional Development Seminar Course, CLRE-258, University of California San Diego, 3. Okt – 14. Nov 2006, 20 h Seminar und 40 h homework.
- San Diego Lab Management Symposium, Feb 2-3, 2007; Intensive scientific leadership management course. Organized by: Salk Institute, Burnham Institute, The Scripps Research Institute and UCSD.
- Führungspraxis-Orientierungsmodelle, Universität Basel 1./2.9.2008.
- Führung mit Energie und Fokus. H. Bruch, Executive School of Management, HSG 22.-24.5.2013
- Leadership and Management transfer day, Führungsentwicklung University Hospital Basel, 6.6.20013

Management activities

- Senior attending physician including consultation, supervision and leading of the assistant physicians team
- PI of the psychopharmacology research group
- Project leader of the SNF-SCORE research project
- Supervision of 3-5 full-time PhD, MD, and MSc students
- Organization of the ambulatory clinical services and of the research section of the division

Record of past and present funding for scientific projects

I. Swiss National Science Foundation & other Federal grants

- “Pharmacological characterization of novel psychoactive substances” grant Nr. 13.006497, 10/2013-6/2015. Federal Office of Public Health (BAG) CHF 50'000.-
- “The role of the dopamine/norepinephrine transporters (SLC6A3/2) and of genetic polymorphisms in the effects of MDMA (ecstasy)”. SNSF project grant Nr. 320030_149493/1 10/2013-9/2016, CHF 438'093.-
- “Pharmacology and Toxicology of Amphetamine-type Substances”, personal and project grant SNSF Nr. 32323B_144996/1. 10/20012-9//2013, CHF 230'482.-
- „Mechanism of action of MDMA“, Swiss National Science Foundation, personal and project grant SNSF Nr. 32323B_126231, 10/2009-9/2012, CHF 691'420.-
- “Glutamatergic regulation of nicotine self-administration and nicotine-induced dopamine release in the nucleus accumbens in rats”, personal funding, advanced researchers, Swiss foundation for biomedical research (SSMBS) and H. LaRoche, SSMBS Nr SSMBS-1246, 1/2007-12/2007, CHF 80'000.-
- “Role of glutamate receptors in nicotine reinforcement”, personal funding, Swiss National Science Foundation, SNSF Nr. SNF-PBZHB-108501, 7.2005-12.2006, CHF 102'000
- “Intoxikationen mit Gamma-Hydroxybutyrate“, project support by Federal Health Office (BAG), 2004, CHF 5'000.-, together with H. Kupferschmid

II. International Foundations

- Upper Rhine Valley Neuroscience Network (Neurex) “welcome/coming back of researchers” support, 5/2010, 20'000 EUR (27'300 CHF)
- European Drug Emergency Network associated centre co-applicant (with 15 other investigators, Main applicant P. Dargan/D.Wood, London) for an European Commission DPIP grant, 4/2013-3/2015 EUR 464'220 (580'275 CHF).

III. University Hospital, University & Foundations

- “Effects of methylphenidate, modafinil, and MDMA on emotion processing in humans: A pharmaco-fMRI study”, project funding, Science Pool, University Hospital Basel, 26 h monitoring, 29.10.2013 (CHF 3'000.-).
- unrestricted research support by the university hospital of Basel (matching funds) NMS1670, 9.8.2013, CHF 1513.-
- unrestricted research support by the University of Basel (matching funds) CHF 7687.- 14.1.2013

-“Effects of MDMA and methylphenidate on social cognition and prosocial behaviour” 1.12.2012-31.7.2013. CHF 30'000.-, Co-applicant. Main applicant: Cédric Hysek. Research Funds of the University of Basel

-“Role of monoamine transporters and TAAR1 in the mechanism of action of novel designer cathinones”, Translational Medicine Hub Innovation Fund, Hoffman-La Roche AG and University of Basel, 1.7.2012-30.6.2014, CHF 120'000.-

-“Emotional and social effects of MDMA and methylphenidate”, Science Pool, University Hospital Basel, 34 h of project support (monitoring) 1.4.2012 (CHF 3'230.-).

-unrestricted research support by the University of Basel (matching funds) CHF 7686.- 31.1.2012

-“Emotional and social effects of MDMA and methylphenidate”, personal and project funding by the Research Funds of the University of Basel, CHF 30'000.-. 1.11.2011-31.12.2012 (DPH2053).

-Pharmacological interaction between duloxetine and MDMA, personal and project funding by the Research Funds of the University of Basel, special programm for the support of clinical research, CHF 30'000.-. 1.4.2010-31.10.2011

- “Mechanisms of action of MDMA” Verein zur Förderung von Wissenschaft, Aus-, Weiter- und Fortbildung (VFWWF), Department of Internal Medicine, University Hospital Basel. 1.3.2009, CHF 60'000.-.

- “Pharmacological interaction between reboxetine and 3,4-Methylenedioxymeth-amphetamine (MDMA, Ecstasy): pharmacological effects and pharmacokinetics”, personal project related funding, Astra Zeneca-funds of the department of internal medicine for the support of scientific projects, University Hospital Basel 1.6.2009, CHF 30'000.-

-“Pharmacological interaction between reboxetine and 3,4-Methylenedioxymeth-amphetamine (MDMA, Ecstasy)”project funding, Science Pool, University Hospital Basel, 240 h onsite management 26.8.2009 (CHF 17'000.-).

-“Pharmacological interaction between clonidin and MDMA ”project funding, Science Pool, University Hospital Basel, 160 h onsite management 10.6.2010 (CHF 11'200.-).

-“Carvedilol-MDMA study” project funding, Science Pool, University Hospital Basel, 60 h onsite management 17.6.2010 (CHF 6'000.-).

IV. Industry Project Support

- “Pharmacological interaction between reboxetine and 3,4-Methylenedioxymeth-amphetamine (MDMA, Ecstasy)”: project funding, Pfizer AG, Switzerland, CHF 2'700.-

IV. Industry Collaborations (congress contributions, consulting, advisory boards, expert reports)

I have received speaker honoraria, research or congress support or consultancy fees from the following companies: F. Hoffmann-La Roche, Novartis, Sandoz, Gruenthal, Pfizer, Robapharma, Mudipharma, Astra-Zeneca, Nycomed, Lundbeck, Sanofi Aventis.

Scientific awards

1999, Poster Award 12th ECNP Congress, London, CHF 500.-. 2000, Young Scientist Award of the Swiss Society of Biological Psychiatry. Basel, Switzerland. CHF 1000.-. 2001, Fellowship Award of the European College of Neuropsychopharmacology (ECNP), Istanbul, Turkey. CHF 2000.-

Record of past and present teaching activities

1991 – 1997	part-time high school teacher, Bergschule Avrona, Tarasp GR, 4-8 wks/year, bock courses in chemistry
1994 - 1995	tutoring in anatomy, Medical School, University of Zurich, Institute for Anatomie
1994 - 1995	tutoring in physiology and biochemistry, Medical School Zurich
1997 – 1999	lecturer, psychiatric project seminars, Nr. 816 and Nr. 820, Psychiatric University Hospital
2000 - 2006	continuos medical education for physicians, Uster Hospital, Limmattal Hospital, University Hospital Zurich
2005 – 2007	Research Meetings, Scripps Research Institute and University of California San Diego, CA, USA

1999 – 2007 congress talks (see publication list)

2008-ongoing University of Basel, Switzerland (list of lectures according to the university index of lectures): <http://vorlesungsverzeichnis.unibas.ch>

- Faculty of Medicine, medical students: (3.-6. year): lecturer in clinical pharmacology for medical students. Repetitorium in pharmacology (6. year), lecturer in theme block courses (3.-4. year), bedside teaching (6. year).

- Faculty of Medicine, MSc Advanced Nursing Practice, course organizer and lecturer, clinical pharmacology, (11878-01)

- Phil. II, Pharmaceutical Sciences: main lecture in pharmacotherapy and main lecture in pathophysiology for pharmacy students (4. year) and MSc in pharmaceutical sciences (Nr. 12528-01/02 and Nr. 12529-01/02). Journal club, target to therapy (Nr 19693-01). Clinical Pharmacology (Nr. 14435-01). Case seminars in toxicology, lecturer, (Nr.19659-019). Institutional Pharmacy (Nr. 18250-06). Practical sessions (Nr. 18580-01). Essential toxicology part VI (Nr. 22700-01).

- Faculty of Medicine and Phil. II, Research seminar in Clinical Pharmacology (Nr. 13612-01), Therapeutic Drug Monitoring (Nr. 13610-01/02)

- CME of the University Polyclinic of Internal Medicine and of the Division of Clinical Pharmacology, (Nr. 13613-01)

- CME Hospital: MedArt (case seminars), Doco (case seminars)

Supervision of students

MD thesis	Matthias Saur	1999-2001
MD thesis	Christine Baumann	1999-2000
MD thesis	Martina Ineichen	2009-2010
MD thesis	Valentina Nicola	2009-2010
MD thesis	Yasmin Schmid	2011-2011
MD thesis	Anja Fink	2011-2012
MD thesis	Nathalie Schillinger	2012
PhD thesis	Cédric Hysek	2009-2012
PhD thesis	Linda Simmler	2009-2012
PhD thesis	Anna Rickli	2012-2015
MD-PhD thesis	Yasmin Schmid	2012-2014
MSc Neurosci	Ana Ramirez (USA)	2007
MSc (Phil II)	Valerie Arnold	2010
MSc (Med)	Robin Brugger	2010-2011
MSc (Med)	FlorianENZeler	2010-2011
MSc (Phil II)	Anna Rickli	2011
MSc (Phil II)	Nerina Vischer	2011
MSc (Med)	Tobias Buser	2011
MSc (Med)	Ludovic Ackermann	2011
MSc (Phil II)	Rebecca Wandeler	2012
MSc (Phil II)	Nicole Meyer	2012
MSc (Med)	Karl Heizelmann	2012
MSc (Phil II)	Thomas Jan Schmid	2012-2013
MSc (Phil II)	Antonia Schaffner	2013
MSc (Phil II)	Patrick Dolder	2013-2014
MD	FlorianENZler	2013-2014

Research collaborations

Prof. Jörg Huwyler, University of Basel

Prof. Stephan Borgwardt, University of Basel

Dr. Marius Höner, Hoffman-La Roche, Basel

Prof. Boris Quednow, University of Zurich

Prof. Alex Odermatt, University of Basel
Prof. Thomas Kraemer, University of Zurich
Prof. Markus Heinrichs, University of Freiburg i.B., Germany
Dr. Eric Grouzmann, University of Lausanne
Dr. Christoph Eisenegger, Universities of Cambridge, UK; Zurich, and Vienna
Dr. Molly Crockett, University of Cambridge, UK
Prof. Rudolf Brenneisen, University of Berne
Dr. Hugo Kupferschmidt, Swiss Toxicological Information Center, Zurich
Prof. A. Markou, University of California San Diego
Prof. Franz X. Vollenweider, University of Zurich
PD. Dr. Michael Schaub, University of Zurich
Prof. Volker Auwärter, University of Freiburg, Germany
Prof. Katharina Rentsch, University Hospital Basel

Publications: <http://www.ncbi.nlm.nih.gov/pubmed?term=Liechti%20ME>

Research: <http://www.unispital-basel.ch/das-universitaetsspital/bereiche/medizin/kliniken-institute-abteilungen/klinische-pharmakologie-toxikologie/angebot/forschung/psychopharmacology-research>