

## **CURRICULUM VITAE**

Name: JAANUS HARRO  
Home Address: Ilmatsalu 36-21, 50408 Tartu, ESTONIA  
Born: November 7, 1962 in Tartu  
Widower; two adult children

### **EDUCATION AND INTERNATIONAL RESEARCH EXPERIENCE**

1981 - graduated from Võru Kreutzwald Gymnasium  
1981 - 1987 - student in the Faculty of Medicine, University of Tartu, Tartu, Estonia  
1982 - 1987 - volunteer research at the Departments of Biochemistry, Psychiatry and Pharmacology  
1987 - graduated from the Faculty of Medicine, University of Tartu (M.D.)  
1987 - 1990 - postgraduate studies in psychopharmacology at the Department of Pharmacology, University of Tartu (Prof. Lembit Allikmets' laboratory)  
October 17, 1990 - Candidate of Medical Sciences (Ph.D.) in pharmacology by presenting academic dissertation entitled "On the role of cholecystokinin and benzodiazepine receptors in the mechanism of action of anxiogenic and anxiolytic drugs", University of Tartu (approved by the All - Union Higher Commission for Qualifications, Moscow) (Research advisers: Prof. Lembit Allikmets and Dr. Eero Vasar; Faculty Opponents and Reviewers: Prof. Vija Klusa (Riga), Dr. Aleksander Zharkovsky (Tartu), Prof. Edwin Zvartau (St. Petersburg))  
June-August 1990 – Guest Researcher at the Department of Pharmacology and Toxicology, University of Helsinki, Finland (Prof. Pekka T. Männistö's laboratory)  
January - December 1991- Holder of the Swedish Institute Scholarship at the Department of Medical Pharmacology, Biomedical Centre, University of Uppsala, Sweden (Prof. Lars Oreland's laboratory)  
September 29 - October 10, 1991 - Student at the 3rd Course - Neuropsychology, FIDIA International School of Neuroscience, Abbey of Praglia, University of Padova, Italy  
1992 - 2002 - appr. 2 months per year as a Visiting Scientist at the Department of Medical Pharmacology / Department of Neuroscience, Biomedical Centre, University of Uppsala, Sweden (Ref.: Prof. Lars Oreland)  
March 1 - 19, 1993 - Course in Laboratory Animal Science, Uppsala Biomedical Centre, Uppsala, Sweden  
October 8, 1993 - Doctor of Medicine in medical pharmacology by presenting academic dissertation entitled "Studies on the Brain Cholecystokinin Receptors and Behaviour", Uppsala University, Sweden. Research Adviser: Prof. Lars Oreland, Faculty Opponent: Prof. Tomas Hökfelt (Stockholm)  
April-May 1995 - 1 week Course in University Pedagogics for Experienced Lecturers at the University of Uppsala, Sweden  
February 27, 1998 - Docent of Pharmacology at the University of Uppsala, Sweden  
August 28-31, 2003 - NorFA Course in fMRI, Lidingö, Sweden  
August 22-24, 2005 – NorFA Course in brain imaging, Solstrand, Norway  
January – February 2009 – Guest Professor at the Department of Psychiatry, University of Würzburg (Host: Prof. Klaus-Peter Lesch)  
Brief visits to and guest lectures at Universities of Copenhagen, Groningen, Haifa, Helsinki, Konstanz, Rouen, Uppsala, Würzburg; Max-Planck-Institute of Psychiatry in Munich, Helsinki Institute of Biotechnology, Karolinska Institutet in Stockholm.

### **POSITIONS HELD**

August 1987 - July 1989 - Research Associate at the Department of Pharmacology, University of Tartu, Estonia  
August 1989 - December 1992 - Staff Scientist at the Laboratory of Psychopharmacology, Institute of General and Molecular Pathology, University of Tartu

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August 1989 - December 1990 - Assistant Professor in Basic Pharmacology, University of Tartu  
July - December 1993 - Senior Researcher in Neurobiology, Department of Physiology, University of Tartu  
January 1994 - March 1996 - Professor of Neuropsychopharmacology (personal appointment), Department of Pharmacology, University of Tartu  
April 1996 - January 1998 - Professor of Health Promotion (personal appointment), Estonian Health Project, affiliated to the Department of Public Health, University of Tartu  
Since February 1, 1998 - Professor of Psychophysiology, Department of Psychology, University of Tartu

## **LANGUAGE SKILLS**

Mother tongue: Estonian  
Languages of free communication: English  
Other languages: Russian, Swedish

## **ACADEMIC AND PROFESSIONAL HONOURS AND DEGREES**

1985, 1986, 1987 - Diploma Winner of the Students' Research Contest of the USSR Academy of Medical Sciences  
Autumn 1993 - European College of Neuropsychopharmacology Fellowship Award  
Autumn 1994 - Israel Hwasser's Prize (from the Uppsala Physicians' Society for the best academic dissertation thesis of the year)  
January 1996 - Academia Europeae Baltic Prize to young scholars  
1998 - CINP Ole Rafaelsen Travel Fellowship Award  
May 2002 - Medal of the Tartu City  
February 2005 – National Annual Prize in Medical Sciences  
February 2006 – Order of White Star Class IV  
May 2011 – Foreign Member, The Royal Society of Sciences at Uppsala (Class for Natural History and Medicine)

## **EXPERT SERVICE AND ADMINISTRATIVE EXPERIENCE**

January - June 1993 - Acting Head of the Laboratory of Psychopharmacology, Institute of General and Molecular Pathology, University of Tartu  
1994 - Member of the Estonian Medical Science Evaluation Panel  
September 1994 - January 1998 - Vice Dean, Preclinical Medicine, Faculty of Medicine, University of Tartu  
1994 – 1999 - Member of the Permanent Scientific Degree Committee of the Faculty of Medicine of the University of Tartu  
1996 – 2000 - Member of the Public Health Advisory Board at the Ministry of Social Affairs, Estonia  
1999 – 2011 Elected Member of the Tartu University Council  
1999 - 2003 – Member of the Committee of the National Program of R&D in Public Health at the Ministry of Social Affairs, Estonia  
February 2000 – August 2001 – Head, Department of Psychology, University of Tartu  
August 2001 – October 2005 – Dean, Faculty of Social Sciences, University of Tartu, and Member of the University Government  
2001 – Member of the Estonian Academy of Sciences Committee of Population and Public Health  
2001 – Member of the Board of the Neuroscience Graduate School, University of Tartu  
2001 – Founding Director, and subsequently the Director and Chairman of the Board of the Estonian Centre of Behavioural and Health Sciences (ECBHS)  
2003 – Member of the Scientific Board of the National Institute for Health Development, Tallinn  
September 2003 - Head, Psychopharmacological Drug Development Unit, University of Tartu  
September 2005 – October 2008 – Director of the Estonian Doctoral School in Behavioural and Health Sciences

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2005 – Voting Member in the NATO Research and Technological Organization Panel “Human Factor and Medicine”  
2005/6 – WHO Expert to write Critical Review Report on zopiclone for use at the 34<sup>th</sup> Expert Committee on Drug Dependence  
2007 – 2011 – Member of the Public Health Board of the Estonian Heath Insurance Fund  
2007 - 2012 – Member of the Board of the Institute of Molecular and Cell Biology, University of Tartu  
2007 – Member of the WHO Expert Advisory Panel on Drug Dependence (Abuse Liability Evaluation)  
2007 - 2012 – Member of the Steering Committee of the European Neuroscience and Society Network  
2007 – Faculty Member of the Lundbeck International Neuroscience Foundation  
September 2009 – Dean, Faculty of Social Sciences, (from January 2010, Faculty of Social Sciences and Education), University of Tartu, and Member of the University Government  
2009 – Field Editor of *European Neuropsychopharmacology*  
2010 – Member of the Executive Committee, European College of Neuropsychopharmacology  
2011 – Member of the Editorial Board, *Acta Neuropsychiatrica*

Member of numerous *ad hoc* committees on issues related to research & development, university education and drug abuse.

Reviewer for journals Naunyn-Schmiedeberg's Archives of Pharmacology, Acta Physiologica Scandinavica, European Journal of Neuroscience, Life Sciences, Pharmacology, Biochemistry and Behavior, Neuroscience, Experimental Brain Research, Journal of Neurochemistry, Psychopharmacology, Behavioural Brain Research, Neuropeptides, Alcohol & Alcoholism, Peptides, Biological Psychiatry, Neuropsychopharmacology, European Neuropsychopharmacology, Neuroscience Letters, Physiology and Behavior, Neuroendocrinology, Neurobiology of Learning and Memory, British Journal of Nutrition, Proceedings of the National Academy of Sciences the U.S.A. (around 16 ms within the last year).

Numerous presentations on brain sciences and psychopharmacology to the general public, including radio and TV. The most notable item in this community service is the book “Uimastite ajastu” (approximate translation “In the Age of Intoxicants”, ISBN 9949-11-214-1; 317 p), Tartu University Press 2006.

## **MEMBERSHIP**

Collegium Internationale Neuro-Psychopharmacologicum (CINP) – Member of the Education Committee 2004-2007  
Society for Neuroscience (SFN)  
European College of Neuropsychopharmacology (ECNP) – Member of the Executive Committee 2010-2013; Member of the Communication and Workshop Committees; ECNP Fellow since 2012  
International Brain Research Organization (IBRO)  
Estonian Society of Pharmacology – Chairman 1994-1996  
Estonian Union of Psychologists  
Estonian Association of Psychiatrists – Chairman of its section, the Estonian Biological Psychiatry Society 1993-1995 and since 2008  
National Geographic Society

## **RESEARCH FUNDING**

### **Current funding**

1. Institutional grant (“target financing”) 0180027 from the Estonian Ministry of Education and Science (2009-2014) to J. Harro, “Affective disorders and health-related behaviour: an

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- affective neuroscience approach." Budget (excl oh) 2009: 1 318 464 EEK, 2010: 1 291 700 EEK, 2010 - € 84 036
2. Estonian Science Foundation, grant ESF8622 "Estonian Children Personality Behaviour and Health Study (ECPBHS), Phase II" (2011-2014). Budget 2011: € 10 000 + oh
  3. HDRF/ISAN (U.S.A. – Israel) grant "Neurobiology of positive affect in depression: the role of inter-individual differences in temperament in the pathogenesis, and intervention strategies" (March 2011- February 2013). USD 100 000 + oh 10 000
  4. National Road Administration, grant "Risk-taking in driving: long-term influence of psychological intervention depending on socio-demographic, biological and personality factors" (2009-2011) € 28,760
  5. ESF "Factors influencing the academic performance in university students" to Anu Realo (2009-2013) Total budget € 718,186, 40% of this allocated to J. Harro's group
  6. Small scale infrastructure funding associated with SF0180027s09 (Budget 2010 845 500 EEK)
  7. Middle scale infrastructure funding to the department (together with Jüri Allik), project "Cognitive and affective regulation and endophenotypes" (Budget 2010-2011 13 048 000 EEK)

### **Previous grants\***

Estonian Science Foundation, grant ESF6932 "Estonian Children Personality Behaviour and Health Study (ECPBHS)" (2007-2010). Budget: € 43 661

EC 6<sup>th</sup> Framework Integrated Project NEWMOOD ("New molecules in mood disorders: a genomic, neurobiological and systems approach in animal models and human disorder" Partnership, (LSHM-CT-2004-503474) (May 2004 – April 2009). Budget in Tartu: € 479 382

HDRF/ISAN (U.S.A. – Israel) grant "Neurobiological basis of depression: cytochrome c oxidase brain mapping and neurotransmission in the rat social defeat model" (June 2007- May 2009). USD 100 000 + oh 10 000

Institutional grant ("target financing") 0182643 from the Estonian Ministry of Education and Science (2004-2008) to J. Harro, "Etiopathogenesis of affective disorders: focus on neurobiology, typology and dimensionality of psychobiological mechanisms of adaptation." Budget 4 605 500 EEK

France-Estonia PARROT Programme Partnership "Biological basis of pathophysiology of anorexia nervosa and bulimia: studies in France and Estonia" (together with Dr Serguei Fetissov, 2007-2008) Budget annually: 70 000 EEK + €5500

Estonian Doctoral School in Behavioural and Health Sciences (2005-2008) Budget: 9 377 048 EEK

Institutional grant from the University of Tartu co-financing intellectual property development (2006-2007). Budget: 1 500 000 EEK

National Road Administration, grant "Risk-taking in driving: possibilities of psychological preventive intervention" (2005-2008) 900 000 EEK

Estonian Science Foundation, grant ESF5450 "Platelet monoamine oxidase activity and other markers of monoaminergic systems in predicting impulsivity and risk-taking behaviour" (2003-2006): 658 000 EEK

Estonian Science Foundation, grant ESF4531 "Development of a neurochemical model of depression" (2001-2004): 869 000 EEK

National Road Administration, grant "Personality traits and platelet MAO activity in association with reckless driving" (2002-2003): 350 000 EEK

National Road Administration, grant "Personality traits and platelet MAO activity in drunk drivers" 2001: 160 000 EEK

Royal Swedish Academy of Sciences, grant "A neurochemical model of depression" (1999-2002): 300 000 SEK (together with Lars Oreland)

Estonian Science Foundation, grant ESF3934 "Possibilities to use biological markers to predict excessive risk-taking" (1999-2002). 480 000 EEK

Institutional grant ("target financing") TSOPH0814 from the Estonian Ministry of Education (1999-2003) to J. Harro, "Depressiveness and depression: deviations in psychobiological adaptive mechanisms." 1 640 000 EEK

Estonian Science Foundation, grant 2469 (1996-1999) "In vivo and in vitro studies on depression" 820 000 EEK (USD 55 700).

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The Swedish Institute, Visbyprogrammet (1997-98) "Biological markers of health-related personality characteristics and coping strategies" 52 500 SEK (USD 6 300) (together with Lars Orelund).

ESF10 (1993-1995) "Neuropeptides in adaptive emotive behaviour" 145 000 EEK (USD 9 700). Soros Foundation (1994-1995) "Neuropeptide-monoamine interactions in shaping adaptational strategies" USD 20 600.

Royal Swedish Academy of Sciences (1994-1996) "Neuropeptide-monoamine interaction and receptor regulation" 195 000 SEK (USD 23 400) (together with Lars Orelund).

Karolinska Institute Grant (1995-1996) "CCK gene expression in relation to anxiety" 125 000 SEK (USD 15 000) (together with Tomas Hökfelt).

International Society for Neurochemistry Seed Grant (1995) "CCK-B receptor regulation and anxiety." USD 1 000.

Swedish Medical Society (1994) "Behavioural studies on CCK peptides and anxiety" 35 000 SEK (USD 4 200).

Swedish Society for Medical Research (1993) "Behavioural and receptor studies on CCK" 20 000 SEK (USD 2 400).

\* Some grant titles have been abbreviated.

## **DISSERTATIONS**

1. J.E.Harro On the role of cholecystokinin and benzodiazepine receptors in the mechanism of action of anxiogenic and anxiolytic drugs. Thesis of Academic Dissertation for Ph.D. (Candidate of Medical Sciences) degree, Tartu University Press, Tartu 1990, 18 p. (in Russian)
2. J.Harro Studies on the Brain Cholecystokinin Receptors and Behaviour. Acta Universitatis Upsaliensis, Comprehensive Summaries of Uppsala Dissertations from the Faculty of Medicine 421, 48 pp, Uppsala 1993 Dissertation for the Degree of Doctor of Medicine

## **SUPERVISION OF M.Sc. and Ph.D. DISSERTATIONS**

(M.Sc. at the University of Tartu corresponds to Licenciate at Nordic Universities – appr 1/3 of Ph.D.)

### **PhD:**

**Charlotta Löfberg** Studies of cholecystokinin peptides and receptors in the central nervous system. Thesis for D.M.Sci. in Pharmacology, University of Uppsala 1996 (co-supervisor with Professor Lars Orelund)

**Ants Kask** Behavioural effects of neuropeptide Y. Thesis for D.M.Sci. in Pharmacology, University of Tartu 1999 (co-supervisor with Professor Lembit Rägo)

**Riina Häidkind** Monoaminergic mechanisms in mood-associated behaviours and neurochemistry in rats. Thesis for Ph.D. in Psychology, University of Tartu 2004 (supervisor)

**Evelyn Kiive** Studies on peripheral markers of central serotonergic activity and behaviour. Thesis for Ph.D. in Psychology, University of Tartu 2005 (supervisor)

**Ruth Rudissaar** Neuropharmacology of atypical antipsychotics and an animal model of psychosis. Thesis for D.M.Sci. in Pharmacology, University of Tartu 2006 (co-supervisor with Professor Lembit Allikmets & Dr Vallo Matto)

**Margus Tönnissaar** Stress and sociability: individual differences and their neurochemical substrate. Thesis for Ph.D. in Psychology, University of Tartu 2006 (supervisor)

## *Curriculum Vitae - Jaanus Harro*

**Katrin Pruus** Mechanism of action of antidepressants: aspects of serotonergic system and its interaction with glutamate. Thesis for D.M.Sci. in Pharmacology, University of Tartu 2006 (co-supervisor with Professor Lembit Allikmets)

**Diva Eensoo** Risk-taking in traffic and markers of risk-taking behaviour in schoolchildren and car drivers. Thesis for D.M.Sci. in Public Health, University of Tartu 2007 (supervisor)

**Marika Paaver** Types of impulsivity, their behavioural expression, and association with the markers of vulnerability of serotonergic system. Thesis for Ph.D. in Psychology, University of Tartu 2007 (supervisor)

**Tanel Mällo** Exploratory behaviour and 50-kHz ultrasonic vocalizations in rats: behavioural and neurochemical profiles of persistent inter-individual differences. Thesis for Ph.D. in Psychology, University of Tartu 2008 (supervisor)

**Aet Alttoa** Neurochemical regulation of rat exploratory behaviour: focus on dopaminergic and noradrenergic neurotransmission. Thesis for Ph.D. in Psychology, University of Tartu 2008 (supervisor)

**Inga Villa** Cardiovascular health-related nutrition, physical activity and fitness in Estonia. Thesis for D.M.Sci. in Public Health, University of Tartu 2010 (co-supervisor with Dr Maarike Harro)

**Kirsti Akkermann** Serotonin-related biomarkers and symptoms of eating disorders. Thesis for Ph.D. in Psychology, University of Tartu 2010 (co-supervisor with Dr Anu Aluoja)

**Denis Matrov** Cerebral oxidative metabolism and effects of chronic variable stress in animal models of human affective styles. Thesis for Ph.D. in Psychology, University of Tartu 2010 (supervisor)

**Kadri Köiv** Studies on monoaminergic regulation of inter-individual differences in exploratory behaviour and the activating and rewarding effects of psychostimulants in rats. Thesis for Ph.D. in Psychology, University of Tartu 2010 (supervisor)

**Laura Herm** Biochemistry of dopamine D<sub>2</sub> receptors and its association with motivated behaviour. Thesis for Ph.D. in Chemistry, University of Tartu 2010 (co-supervisor with Professor Ago Rinken)

**Margus Kanarik** Inter-individual differences in vulnerability to depression: regional brain energy metabolism, serotonergic function and behaviour in animal models. Thesis for Ph.D. in Psychology, University of Tartu 2011 (supervisor)

**Triin Kurrikoff** Interpersonal relationships and behaviour: moderation by functional gene variants. Thesis for Ph.D. in Psychology, University of Tartu 2012 (supervisor)

**Karita Raudkivi** Neurochemical studies on inter-individual differences in affect-related behaviour of the laboratory rat. Thesis for Ph.D. in Chemistry, University of Tartu 2012 (co-supervisor with Professor Ivo Leito)

## **MSc:**

**Tiina Ööpik** The effect of selective CCK receptor antagonists on the morphine-conditioned place preference. [in Estonian] Thesis for M.Sc. in Biomedicine University of Tartu 1993 (supervisor)

**Riina Häidkind** Chronic mild stress model of depression: forced swimming behavior and monoamine neurochemistry. Thesis for M.Sc. in Psychology, University of Tartu 1999 (supervisor)

## *Curriculum Vitae - Jaanus Harro*

**Diva Eensoo** Association of physical activity with mental health and personality. [in Estonian] Thesis for M.Sc. in Public Health, University of Tartu 2000 (supervisor)

**Annemari Arro** Binding of [<sup>3</sup>H] 8-OH-DPAT to rat brain membranes, and the effects of modulating factors. [in Estonian] Thesis for M.Sc. in Bioorganic Chemistry, University of Tartu 2000 (co-supervisor with Dr Ago Rinken)

**Evelyn Kiive** Platelet monoamine oxidase activity in association with childhood aggressive and hyperactive behaviour, smoking, alcohol and illicit drug use. Thesis for M.Sc. in Psychology, University of Tartu 2001 (supervisor)

**Liis Merenäkk** Association of alcohol and drug use with personality characteristics and platelet MAO activity in schoolchildren. [in Estonian] Thesis for M.Sc. in Public Health, University of Tartu 2002 (co-supervisor with Dr Maarike Harro)

**Anneli Zirkel** Drug and alternative medicine usage among Estonian population. [in Estonian] Thesis for M.Sc. in Public Health, University of Tartu 2002 (supervisor)

**Inga Dorofejeva** Discourse of health promotion in Estonia: an analysis of health promotion projects of 1995-1998. Thesis for M.Sc. in Semiotics, University of Tartu 2002 (co-supervisor with Prof Peeter Torop)

**Margus Tõnissaar** Serotonergic regulation of social behaviour of rats in the social interaction test. Thesis for M.Sc. in Psychology, University of Tartu 2002 (supervisor)

**Marika Paaver** Impulsivity and platelet MAO activity: association with health-compromising behaviours like problem drinking, smoking and driving while impaired. Thesis for M.Sc. in Psychology, University of Tartu 2003 (supervisor)

**Aet Alttoa** Neurochemical regulation of rat exploratory behaviour: focus on dopaminergic and noradrenergic neurotransmission. Thesis for M.Sc. in Psychology, University of Tartu 2004 (supervisor)

**Tanel Mällo** The role of corticotropin-releasing factor and locus coeruleus in the regulation of exploratory behaviour in rats. Thesis for M.Sc. in Psychology, University of Tartu 2004 (supervisor)

**Maiken Jaanisk** The stability of Eating Disorders Inventory (EDI-2) scales and associations with the activity of platelet monoamine oxidase (MAO). [in Estonian] Thesis for M.Sc. in Psychology, University of Tartu 2004 (co-supervisor with Prof Jüri Allik)

**Denis Matrov** Rats with high and low exploratory activity: similarities and differences in cerebral oxidative metabolism and sensitivity to chronic variable stress. Thesis for M.Sc. in Psychology, University of Tartu 2006 (supervisor)

**Kadri Kõiv** Studies on neurochemical regulation of individual differences in exploratory behaviour and the activating and rewarding effects of psychostimulants. Thesis for M.Sc. in Psychology, University of Tartu 2006 (supervisor)

**Laura Herm** Effect of psychostimulants and a natural reinforcer on dopamine D<sub>2</sub> receptor mediated signal transduction in rat brain. [in Estonian] Thesis for M.Sc. in Bioorganic Chemistry, University of Tartu 2006 (co-supervisor with Prof Ago Rinken)

**Margus Kanarik** Search for brain regions involved in social behaviour and stress response: mapping of oxidative metabolism. Thesis for M.Sc. in Psychology, University of Tartu 2007 (supervisor)

**Maris Kolk** Associations of platelet monoamine oxidase activity and plasma cholesterol levels with aggressive, hyperactive and depressive behaviour in 9 and 15 years old children. [in

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Estonian] Thesis for M.Sc. in Psychology, University of Tartu 2008 (co-supervisor with Dr Evelyn Kiive)

## **REVIEWS OF M.Sc. and Ph.D. DISSERTATIONS**

Andres Valkna The regulation of adenylate cyclase with galanin and its analogues in rat hippocampus. [in Estonian] Thesis for M.Sc. in Biomedicine, University of Tartu 1995 (faculty opponent)

Allen Kaasik Thyroid hormone control over  $\beta$ -adrenergic signalling system in rat atria. Thesis for D.M.Sci. University of Tartu 1998 (reviewer)

Eve Pihl Cardiovascular risk factors in middle-aged former athletes. Thesis for D.M.Sci. University of Tartu 1999 (reviewer)

Jakov Shlik Psychophysiological effects of cholecystokinin in humans. Thesis for D.M.Sci. in Psychiatry. University of Tartu 1999 (faculty opponent)

Heili Varendi Recognition of natural odors by neonates. Thesis for D.M.Sci. in Pediatrics. University of Tartu 1999 (faculty opponent)

Anu Järvekülg Anxiolytic and emotional balance promoting effect of aerobic gymnastics, and its physiological mechanism. [in Estonian] Thesis for M.Sc. in Sports Physiology, University of Tartu 2000 (faculty opponent)

Markus Jokela On the environmental genetics of depressive symptoms: Focus on two serotonergic genes. Ph.D. dissertation at the Faculty of Behavioral Sciences, University of Helsinki 2007 (external reviewer)

Piret Veerus The impact of postmenopausal hormone therapy on health and use of health services: experience from the Estonian Postmenopausal Hormone Therapy (EPHT) trial. Ph.D. dissertation at the School of Public Health, University of Tampere 2007 (external reviewer)

Anu Aonurm-Helm Depression-like phenotype and altered intracellular signalling in neural cell adhesion molecule (NCAM)-deficient mice. Ph.D. in neurosciences dissertation at the Faculty of Medicine, University of Tartu 2010 (reviewer)

Katrin Kepp Genes involved in cardiovascular traits: detection of genetic variation in Estonian and Czech populations. Ph.D. in molecular diagnostics, Institute of Molecular and Cell Biology, University of Tartu 2010 (reviewer)

Merike Sisask The social construction and subjective meaning of attempted suicide. Ph.D. dissertation at the Department of International and Social Studies, University of Tallinn 2010 (faculty opponent)

## **CONFERENCES AND SYMPOSIA ORGANIZED**

Tallinn 1986 - Member of the Technical Organizing Group of the All-Union Conference on the Chemistry, Pharmacology and Clinical Aspects of Neuroleptics

Tallinn 1989 - Member of the Technical Organizing Group of the Satellite Symposium "Molecular Basis of Action of Bioactive Substances on Behaviour" of the XXXI International Congress of Physiological Sciences

Tallinn 1990 - Member of the Technical Organizing Group of the II Baltic Meeting of Pharmacology and Clinical Pharmacology

Tartu 1995 - Secretary General of the Rudolf Buchheim Conference: Focus on Neuropharmacology

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Tartu 1995 - Convener, Symposium "Peptides and emotions", the Rudolf Buchheim Conference:  
Focus on Neuropharmacology  
Budapest 1999 - Member of the International Advisory Board, 2nd European Congress of Pharmacology  
Tartu 2001 – Member of the Scientific Board and the Organizing Committee, 2<sup>nd</sup> Baltic Regional Meeting of Biological Psychiatry; Convener of the Symposium "Neurobiology and pharmacotherapy of anxiety disorders"  
Brno 2004 - Member of the International Advisory Board, Central/East European CINP Regional Meeting; Convener of the Symposium "Anxiety disorders from the laboratory to the clinic"  
Tallinn 2006 – Chair of the International Scientific Committee, 2<sup>nd</sup> CINP Central/Eastern Regional Meeting; Convener of the Symposium "Promising neuromodulators: exciting both at bench and bedside?"  
Tallinn 2009 – Member of the Scientific Programme Committee and Chair of the Local Advisory Committee of the 10<sup>th</sup> Regional Meeting of the European College of Neuropsychopharmacology  
Amsterdam 2010 – Member of the Scientific Programme Committee of the 23<sup>rd</sup> Congress of the European College of Neuropsychopharmacology  
Prague 2011 – Member of the International Scientific Programme Committee of the 10th World Congress of Biological Psychiatry  
St Petersburg 2011 – Member of the Scientific Programme Committee of the 11th Regional Meeting of the European College of Neuropsychopharmacology; Convener of the Symposium "Neurobiology of inter-individual differences: implications for research on anxiety and depression"  
Viinistu 2011 – Local Organizer, ECNP-EPA Seminar in Neuropsychopharmacology, April 27-29, Viinistu, Estonia

## **PATENT APPLICATION**

**J.Harro**, J.Parik, J.Mäestu "Method for determining the risk for developing metabolic, psychiatric or neurological disease or disorder, or obesity and for managing a human's dietary intake"  
27.04.2007 P20070019

## **LIST OF PUBLICATIONS** I (Book Chapters)

1. **J.Harro**, M.Pöld, E.Vasar, L.Allikmets The role of brain cholecystokinin receptors in generation of anxiety states in mice and rats. In: K.V.Sudakov (Ed.) *Systems Research in Physiology*, Vol. 5. Gordon & Breach, London (1989) pp. 180-196
2. E.Vasar, **J.Harro**, A.Pöld, A.Lang CCK receptors and anxiety in rats. In: C.T.Dourish, S.J.Cooper, S.D.Iversen, L.L.Iversen (eds) *Multiple Cholecystokinin Receptors in the CNS* (1992) Oxford University Press, pp. 143-148
3. **J.Harro** Measurement of Exploratory Behaviour in Rodents. In: P.M.Conn (Ed.) *Methods in Neurosciences*, Vol. 14, Academic Press, San Diego (1993) pp. 359-377
4. E. Peuranen, A. Lang, **J. Harro**, E. Vasar, P.T. Männistö Effect of caerulein and cholecystokinin antagonists on hypophyseal hormone secretion in single-housed and group-housed male rats. In: S. Seredenin, V.G. Longo (eds) *Biological Basis of Individual Sensitivity to Psychotropic Drugs* Harwood Academic Publishers Amsterdam 1994, pp 63-72
5. **J. Harro**, E. Vasar, D. Koszycki, J. Bradwejn The CCK hypothesis of anxiety and panic. In: J. Panksepp (ed) *Advances in Biological Psychiatry*, Vol 1, JAI Press 1995, pp 235-262.
6. **J. Harro**, E. Vasar, L. Oreland, P.T. Männistö Animal studies on CCK and anxiety. In: J. Bradwejn, E. Vasar (eds) *CCK and Anxiety: from Neuron to Behaviour*. R.G. Landes Company (1995) 57-72
7. M. Sallo, **J. Harro**, A. Viru Moderate to vigorous physical activities in preadolescent children. In: N. Armstrong, B.J. Kirby, J.R. Welsman (eds) *Children and Exercise XIX: Promoting*

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- Children's Health and Well-being.* E & FN Spon (Chapman & Hall) London **1997**, pp 151-156
8. **J. Harro**, H. Rimm, M. Sallo, N. Jaanimägi, A. Päevloo, I. Villa Does the personality of parents influence the physical activity of their children? In: N. Armstrong, B.J. Kirby, J.R. Welsman (eds) *Children and Exercise XIX: Promoting Children's Health and Well-being.* E & FN Spon (Chapman & Hall) London **1997**, pp 157-162
9. L. Oreland, M. Damberg, H. Garpenstrand, **J. Harro**, J. Hallman Platelet monoamine oxidase, transcription factor AP-2 and personality – a functional triangle? In: T. Nagatsu, T. Nabeshima, R. McCarty, D.S. Goldstein (eds) *Catecholamine Research: From Molecular Insights to Clinical Medicine.* Kluwer Academic/Plenum Publishers **2002**, pp 439-442
10. J. Panksepp, **J. Harro** Future of neuropeptides in biological psychiatry and emotional psychopharmacology: Goals and strategies. In: J. Panksepp (ed) *Textbook of Biological Psychiatry*, John Wiley & Sons, **2004**, pp 627-659
11. **J. Harro** Appendix A: Pharmacodynamics and pharmacokinetics. In: J. Panksepp (ed) *Textbook of Biological Psychiatry*, John Wiley & Sons **2004**, pp 661-681
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