

CURRICULUM VITAE

- 1. NAME:** Uusi-Oukari, Mikko Tapio, Ph.D., Adjunct Professor
- 2. YEAR OF BIRTH:** 1957
- 3. EDUCATION:** Secondary school, Helsinki, Finland, 1967-1978
Master in Sciences, University of Helsinki, 07.12.1989 (biochemistry)
Doctoral dissertation (biochemistry): "*GABA_A receptors in a genetic animal model of ethanol intoxication*" approved by the University of Helsinki, 13.06.1992
Degree of Doctor of Philosophy awarded 16.10.1992
- 4. DOCENTSHIPS** Docentship in biochemical pharmacology, University of Turku, 13.02.2003
- 5. CURRENT POSITION:** August 2003 – so far. Department of Pharmacology, Drug Development and Therapeutics, University of Turku
2003-2007 Senior lecturer of Pharmacology
2007- Lab manager. The position includes teaching in neuropharmacology courses and research (mainly in the field of neuropharmacology)
In 2017 the name of the Department was changed to Integrated Physiology and Pharmacology.
- 6. EMPLOYMENT:**
- Research assistant, The Biomedical Research Center, Alko Ltd, Helsinki, 1987-1989
- Research scientist, University of Tampere, Department of Biomedical Sciences, Physiology, 1990-1991
- Research scientist, Orion Corporation, Department of Biotechnology, Helsinki, 1992
- Research scientist, National Public Health Institute, Department of Biochemistry, Helsinki, 1993-1994
- Research scientist, University of Helsinki, Institute of Biomedicine, Physiology, 1995-1996
- Research scientist, University of Turku, Institute of Biomedicine, Pharmacology and Clinical Pharmacology, 1997-1999
- Research scientist, University of Turku, Institute of Biomedicine, Pharmacology and Clinical Pharmacology, 2000-2001
- Assistant of pharmacology, University of Turku, Institute of Biomedicine, Pharmacology and Clinical Pharmacology, 1.1.2002-31.7.2003

Senior lecturer of pharmacology, University of Turku, Institute of Biomedicine, Pharmacology, Drug Development and Therapeutics, 1.8.2003-30.4.2007

Lab manager, University of Turku, Institute of Biomedicine, Pharmacology, Drug Development and Therapeutics, 1.5.2007- current. The position also includes teaching in neuropharmacology courses and research (mainly in the field of neuropharmacology)

7. MOST IMPORTANT SCIENTIFIC POSITIONS OF TRUST HELD

Brain Research Society of Finland, Treasurer, 2003-2012

8. SUPERVISOR FOR DOCTORAL DISSERTATIONS

Olga Vekovischeva, Dept. of Medical Sciences, Univ. of Tampere Medical School and Dept. of Pharmacology and Clinical Pharmacology, Univ. of Turku, 2003, “*The role of $\alpha 6$ subunit-containing GABA_A receptors in behavioral effects of alcohol and drug treatments*”. The second supervisor with Prof. Esa R. Korpi.

Under supervision

MSc Ali Benkherouf

SUPERVISOR FOR MASTER’S THESES

Leena-Stiina Kontturi. Pro Gradu. Autumn 2007. *The role of GABA_A-receptor $\alpha 6$ subunit R100Q polymorphism on differences between AT- and ANT-rats in the properties of GABA_A receptors and in ethanol sensitivity.*

Anna-Maija Penttinen. Pro Gradu. 2011. *Eristetty sydänpreparaatti sydänlihaksen aineenvaihdunnan tutkimusvälineenä : hiiren sydänlihaksen aineenvaihduntaentsyymien $\alpha 2A$ -adrenoseptorivälitteinen säätely.*

Asko Aalto. Pro Gradu. 2012. *Effects of agonists and positive modulators on the binding of a ion channel ligand to native and recombinant GABA_A receptors.*

Kaisa Taina. Pro Gradu. 2012. *Extrasynaptic GABA_A receptors as a target in drug development. Association and dissociation of [³H]muscimol to GABA_A receptor subtypes.*

Ali Benkherouf. Pro Gradu 2017. *The Role of Beta Subunit Variant on the Properties of Delta-Containing Extrasynaptic GABA_A Receptors.*

Under supervision

Minna Eriksson

SUPERVISOR FOR EXTENDED STUDIES

Ilkka Martikainen. Extended studies related to his medical studies. Spring 2003. *Kainate down-regulates a subset of GABA_A receptors in cultured mouse cerebellar granule cells.*

Matti Artosalo. Extended studies related to his medical studies. Spring 2004. *GABA_A receptor δ subunit: selective combining with $\alpha 6$ subunit.*

Sampsa Kallinen. Extended studies related to his medical studies. Spring 2010. *The role of protein kinases on the regulation of GABA_A reseptor delta subunit expression.*

Sylvia Sikstus. Extended studies related to her medical studies. Spring 2017. *AA29504 modulation of radioligand binding to $\alpha\beta 2$ and $\alpha\beta\delta$ GABA_A receptors.*

SUPERVISOR FOR BACHELOR STUDIES

Asko J. Aalto. LuK-tutkielma. Spring 2010. *Pharmacology of GABA_A receptor subtypes.*
Anna Kaunisto. LuK-tutkielma. Kevät 2011. *Pharmacology of ionotropic glutamate receptors.*
Ville Savolainen. LuK-tutkielma. Spring 2016. *Development of receptor subtype-selective drugs to benzodiazepine binding sites for GABA_A receptor subtypes.*

9. WORKING ABROAD

Two months (2 visits) in the lab of Prof. Hartmut Lüddens, University of Mainz, Germany in 2002-2003. The work was related to the project "Subtype specific combining of GABA_A receptor $\alpha 6$ subunit with δ subunit. Bilateral researcher exchange between the Academy of Finland and DAAD (Deutscher Akademischer Austauschdienst).

One month (2 visits) in the lab of Dr. Gábor Maksay, Department of Molecular Pharmacology, Chemical Research Center, Hungarian Academy of Sciences, Budapest, Hungary, in 2004-2005. The work was related to the project "Modulation of GABA_A receptor function by fenamates". Bilateral researcher exchange between the Academy of Finland and Hungarian Academy of Sciences.

10. MEMBERSHIPS IN SCIENTIFIC SOCIETIES

Brain Research Society of Finland, 2000-
Finnish Pharmacological Society, 2002-
European Society for Biomedical Research on Alcoholism 2009-
European Society for Neurochemistry, 2005-
International Society for Neurochemistry (ISN), 2005-2013
Society for Neuroscience (US), 1991-1994, 2007-2013
Molecular and Cellular Cognition Society, 2002-

11. SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH

Google Scholar [h-index](#) 26 [i10-index](#) 45

Most cited:

TITLE	CITED BY	YEAR
Regulation of GABA_A receptor subunit expression by pharmacological agents M Uusi-Oukari, ER Korpi Pharmacological Reviews 62 (1), 97-135	162	2010
Morphine-induced dependence and sensitization are altered in mice deficient in AMPA-type glutamate receptor-A subunits OY Vekovischeva, D Zamanillo, O Echenko, T Seppälä, M Uusi-Oukari, ... Journal of Neuroscience 21 (12), 4451-4459	92	2001
Diazepam sensitivity of the binding of an imidazobenzodiazepine, [³H]Ro 15-4513, in cerebellar membranes from two rat lines developed for high and low alcohol sensitivity M Uusi-Oukari, ER Korpi Journal of Neurochemistry 54 (6), 1980-1987	89	1990

Cerebellar granule-cell-specific GABA _A receptors attenuate benzodiazepine-induced ataxia: evidence from $\alpha 6$ -subunit-deficient mice ER Korpi, P Koikkalainen, OY Vekovischeva, R Mäkelä, R Kleinz, ... European Journal of Neuroscience 11 (1), 233-240	88	1999
Enhancement of GABAergic activity: neuropharmacological effects of benzodiazepines and therapeutic use in anesthesiology TI Saari, M Uusi-Oukari, J Ahonen, KT Olkkola Pharmacological Reviews 63 (1), 243-267	85	2011
Long-term cognitive and neurochemical effects of "bath salt" designer drugs methylone and mephedrone B den Hollander, S Rozov, AM Linden, M Uusi-Oukari, I Ojanperä, ... Pharmacology Biochemistry and Behavior 103 (3), 501-509	82	2013
Long-range interactions in neuronal gene expression: Evidence from gene targeting in the GABA _A Receptor $\beta 2$ - $\alpha 6$ - $\alpha 1$ - $\gamma 2$ subunit gene cluster M Uusi-Oukari, J Heikkilä, ST Sinkkonen, R Mäkelä, B Hauer, ... Molecular and Cellular Neuroscience 16 (1), 34-41	70	2000
Expression of bovine β -lactoglobulin/human erythropoietin fusion protein in the milk of transgenic mice and rabbits VP Korhonen, M Tolvanen, JM Hyttinen, M Uusi-Oukari, R Sinervirta, ... European Journal of Biochemistry 245 (2), 482-489	68	1997
Quantification of hepatitis B virus DNA over a wide range from serum for studying viral replicative activity in response to treatment and in recurrent infection M Ranki, HM Schätzl, R Zachoval, M Uusi-Oukari, P Lehtovaara Hepatology 21 (6), 1492-1499	67	1995
Correlation of polyamine and growth responses to N1,N11-diethylnorspermine in primary fetal fibroblasts derived from transgenic mice overexpressing spermidine/spermine N1-acetyltransferase L Alhonen, A Karppinen, M Uusi-Oukari, S Vujcic, VP Korhonen, ... Journal of Biological Chemistry 273 (4), 1964-1969	62	1998
Cerebellar γ -aminobutyric acid type A receptors: pharmacological subtypes revealed by mutant mouse lines R Mäkelä, M Uusi-Oukari, GE Homanics, JJ Quinlan, LL Firestone, ... Molecular Pharmacology 52 (3), 380-388	60	1997
Quantitative PCR for hepatitis B virus with colorimetric detection P Lehtovaara, M Uusi-Oukari, P Buchert, M Laaksonen, M Bengtström, ... Genome Research 3 (3), 169-175	52	1993
A compound heterozygote for hepatic lipase gene mutations Leu334--> Phe and Thr383--> Met: correlation between hepatic lipase activity and phenotypic expression P Knudsen, M Antikainen, S Ehnholm, M Uusi-Oukari, H Tenkanen, ... Journal of Lipid Research 37 (4), 825-834	51	1996
Bovine $\alpha s 1$ -casein gene sequences direct high level expression of human granulocyte-macrophage colony-stimulating factor in the milk of transgenic mice M Uusi-Oukari, JM Hyttinen, VP Korhonen, A Vasti, L Alhonen, OA Janne, ... Transgenic Research 6 (1), 75-84	47	1997