



CURRICULUM VITAE (CV)-2015

Name-Lastname:	H. Ümit SAYIN
Nationality:	Turkish Republic
Languages:	English (Fluent, very good), German (intermediate)
E-mail:	humitsayin@gmail.com humitsayin@yahoo.com
Date of Birth-Place:	14 th . January.1961 MUGLA (Halikarnossos)
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H-Index Factor:	14
Personal Impact Factor:	43 (citations per article)
Last Updated on December 2014	

DEGREES AND POSTDOCTORAL EDUCATION

DEGREE	YEAR	INSTITUTION
Medical Doctor	1986	İstanbul University İstanbul (Çapa) Medical Faculty
Specialist of Pharmacology (Ph.D.)	1993	Cerrahpaşa Medical Faculty-İstanbul University
Postdoctoral Education (Neuroscience)	1994-1996	Department of Neurology, University of Wisconsin-Madison, Wisconsin-USA
Assistant Professor	2001	İstanbul University
Associate Professor	2004	İstanbul University

EDUCATION AND THE INSTITUTIONS WORKED IN

2001-2015:	İstanbul University Institute of Forensic Sciences. Worked as a faculty.
2004-2015:	İstanbul University Institute of Forensic Sciences. Worked as associate professor.
2004:	Associate professor after an extensive exam on Basic and Clinical Pharmacology. Received his Associate Professor tenure position.
2001-2002:	Worked at Dept. Neurology (University of Wisconsin-Madison) while assigned as an Assitant Professor at İstanbul University Institute of Forensic Sciences.
2001-2004:	Worked as an Assitant Professor at İstanbul University Institute of Forensic Sciences.
1996-2002:	Worked as a scientist, researcher and faculty at the Dept. of Neurology, University of Wisconsin-Madison, U.S.A.
1994-1996:	Postdoctoral Education and Research at Dept. of Neurology, University of Wisconsin-Madison, U.S.A.
1992-1994:	Worked at DETAM (Experimental Medical Research Institute, İstanbul University, Çapa) as a postdoctoral fellow and researcher.
1993:	Received his “Specialist of Pharmacology” (Ph.D.) degree at Cerrahpaşa Medical Faculty, İstanbul University.
1992:	Worked at Experimental Psychology Department (Oxford University-United Kingdom) as a postdoctoral fellow on Electrophysiology (April 1992-August 1992).
1992:	Worked at Medicinal Chemistry Department, Pharmacy Faculty (Groningen University) as a postdoctoral fellow on Microdialysis Technique and Neuropharmacology (August 1992- October 1992)
1989-1990:	Worked at the Dept. of Physiological Psychology (Experimental Psychology), Memorial University of Newfoundland, Canada as a postdoctoral fellow. Was included in the Neuroscience Ph.D. programme and attended doctoral courses on Neuroscience. Also Worked as a postdoctoral follow, research assistant and teaching assistant.
1988-1989:	Worked at the Medical Department of Dincel Laboratories Drug

	Company as an instructor and medical advisor. Gave pharmacology education.
1987-1991:	Completed the compulsory education for pharmacology degree at the Dept. of Pharmacology, Cerrahpaşa Medical Faculty, İstanbul University.
1986:	Received the medical doctor degree.
1979-1986:	Medical Education at İstanbul Medical Faculty of İstanbul University (Çapa)
1972-1979:	Graduate of a grammar and private high school, where entire education was in English.

ACADEMIC AND RESEARCH EXPERIENCE

2010-2014:	Did research on female sexuality and orgasm. Investigated ESR (Expanded Sexual Response) Made different national and international surveys on female sexuality. His survey "İstanbul Report" on the sexuality of Turkish women is still continuing.
2002-2010:	Worked on psychoactive substances and plants, psychopharmacology, experimental epilepsy, behavioral sciences, physiological effects of hallucinogens and psychoactive plants, female sexuality. Made some theoretical studies on perception, perception management, mind control, behavior modifications.
1997-2002:	Worked as an independent scientist on experimental epilepsy; long term effects of febrile convulsions; effects of neonatal epilepsy on adulthood; synaptic plasticity induced by opiates in hippocampus; animal models of epilepsy, such as kindling, kainic acid, pilocarpine, pentetrazol, febrile seizures etc.; cellular mechanisms of epilepsy and learning; behavioral models and tests such as water maze, elevated plus maze, radial arm maze etc.; neuropharmacology, psychopharmacology; effects of metabotropic glutamate receptors on epilepsy; electrophysiology, such as cellular electrophysiology, current clamp, voltage clamp, patch clamp; electrophysiological effects of anti-epileptic drugs (such as vigabatrin, alprazolam, phenytoin, gabapentin, propophol etc.) and psychoactive drugs; paired pulse technique to measure cellular GABAergic inhibition; long term potentiation (LTP); behavioral and electrophysiological mechanisms of ictal discharges, learning and LTP; various ictal slice models (CA3); metabotropic glutamate and NMDA receptors.
1994-1997:	Worked with Prof. Dr. Rutecki and Prof. Dr. Sutula on experimental models of epilepsy (kindling, kainic acid, PTZ and pilocarpine

	models); cellular mechanisms of epilepsy; extracellular paired pulse recordings at CA1, CA3 and Dentate areas of hippocampus; intracellular and extracellular (<i>in vivo</i> and <i>in vitro</i>) recordings in hippocampus (voltage and current clamp techniques in CA3 pyramidal and dentate granule cells <i>in vitro</i>); behavioral models in animals; epilepsy models in animals; LTP and learning at the Dept. of Neurology, University of Wisconsin, Madison.
1992:	Worked with Prof. Dr. Ben Westerink on the microdialysis technique at the Dept. of Medicinal Chemistry, Faculty of Pharmacy, University of Groningen/Netherlands. Worked on glutamatergic, dopaminergic and GABAergic changes in substantia nigra and striatum during seizures (PTZ etc.) and under the effects of some antiepileptic drugs (Vigabatrin-GVG, gabapentin etc.).
1992:	Worked with Dr. Jane Mellanby at the Dept. of Experimental Psychology, Oxford/England on tetanus toxin model of epilepsy; GAD activity in epilepsy; paired pulse inhibition, extracellular recordings <i>in vivo</i> .
1992-1994	Worked at DETAM (Experimental Research Institute of Istanbul University) on experimental epilepsy; animal models of behavior and psychology; morphine physical dependence, heroin addiction; worked with Prof. Hikmet Koyuncuoğlu on the physiological and psycho-pharmacological basis of opiate dependence and addiction.
1990-1993:	At the Department of Pharmacology, İstanbul Medical Faculty worked with Prof. Hikmet Koyuncuoğlu on the treatment opiate, morphine and heroin physiological dependence and addiction.
1989-1990:	Worked with Prof. Robert Adamec on the kindling model of epilepsy in rats and cats; the effects of CFR (corticotropin releasing factor) on behavior, depression and anxiety at the Dept. of Psychology, University of Newfoundland, St. John's, Canada.
1987-1989:	Worked on the kindling model in rodents and cats; experimental epilepsy; neuro-psycho-pharmacology at the Dept. of Pharmacology, Cerrahpaşa Medical Faculty.
1985-1986:	Worked on the clinical psychiatry with Prof. Tuncer Özkan at the Dept. of Psychiatry, İstanbul Medical Faculty.

THE TOPICS AND SPECIFIC AREAS WORKED ON DURING THE SCIENTIFIC AND ACADEMIC HISTORY

- Psychoactive plants.
- Physiological and psychological effects of psychoactive drugs.
- Female sexual response and ESR. Neurophysiology and neuropharmacology of female orgasm.

- Altered States of Consciousness (ASC).
- Oxytocin and sexual endocrinology.
- Sexual function disorders such as anorgasmia, vaginismus, dyspareunia, erectile dysfunction, premature ejaculation.
- Long term neurophysiological effects of neonatal seizures and febrile convulsions on adult epilepsy and synaptic plasticity.
- Toxicology.
- Effects of opiates on synaptic plasticity in hippocampus.
- Extracellular field potential recordings *in vitro* and *in vivo*; paired pulse recordings to assess GABAergic inhibition or excitation/inhibition balance [extracellular and intracellular]; intracellular recordings and voltage clamp *in vitro* (CA1, dentate gyrus and CA3, hippocampal slices).
- Pilocarpine model of epilepsy, paired pulse technique in hippocampal slices *in vitro* and *in vivo*. *In vitro* electrophysiology studies in the hippocampal slices of rats undergone status epilepticus.
- Kainic acid model of epilepsy, electrophysiological studies in the hippocampal slices of kainic acid treated rats and biocytin injection.
- Metabotropic glutamate receptors and epileptogenesis.
- LTP (Long term potentiation).
- Kindling model of epilepsy.
- Behavioral models in animals. Water maze, radial arm maze, T-Maze, Elevated Plus Maze.
- Kindling model and its effects on behavior.
- Chemical kindling.
- Epilepsy models by pentetrazol, picrotoxin, bicuculline, pilocarpine (and others) and investigating the effects of antiepileptics in these models.
- Morphine and opiate physical dependence.
- Effects of opiate dependence on epileptic threshold.
- Anxiety and models of anxiety in animals; behavioral psychopharmacology.
- Alzheimer model.
- Effects of GABAergic system in epilepsy and behavior.
- Effects of CRF (corticotropin releasing factor) on anxiety and HPA axis.
- Estimation of certain neurotransmitters in the brain by microdialysis.
- Roles of NMDA receptors on behavior, morphine dependence, epilepsy and learning.
- Investigation of GABAergic inhibition in hippocampus (dentate) by paired pulse technique *in vivo*.
- Epilepsy model by tetanus toxin and its effects on hippocampal neuropharmacology and electrophysiology.

INTERNATIONAL FELLOWSHIPS:

1992: Postdoctoral short term fellowship from TUBITAK.

1994: Postdoctoral short term fellowships from TUBITAK

GRANTS:

2000:

Awarded an independent research grant by American Epilepsy Foundation-AEF (Junior Investigator Research Grant) entitled as “*Febrile Convulsions,*

	<i>Developmental Plasticity and Epileptogenesis</i> ", \$ 40 000 /year.
1999:	Co-investigator in a Veterans Merit grant (P.I. Paul Rutecki) entitled as: " <i>Metabotropic Glutamate Receptors and Hippocampal Epileptiform Activity</i> "
1999:	Co-Investigator in NINDS grant (P.I. Tom Sutula) entitled as: " <i>Hippocampal Plasticity and Epilepsy</i> ".

PROJECTS WORKED ON:

- 1) 1992-1994:** At DETAM worked on the projects related with experimental epilepsy, opiate physiological dependence, and anxiety models of animals using local İstanbul University and DETAM funds.
- 2) 1992:** With Dr. Jane Mellanby worked on '*experimental epilepsy and GAD activity on tetanus toxin models*' using Oxford University and Experimental Psychology funds.
- 3) 1992:** With Prof. Ben Westerink worked on '*neuropharmacology of GABA during seizures*' using Groningen University Funds.
- 4) 1995-1998:** With Prof. Thomas P. Sutula, worked on mechanisms of epilepsy-National Institute of Neurological Disorders and Stroke, NS-25020 using NIH funds (as a co-investigator).
- 5) 1999-2001:** With Prof. Thomas P. Sutula, worked on '*Hippocampal Plasticity and Epilepsy*', National Institute of Neurological Disorders and Stroke, RO1-25020, using NIH funds (as a co-Investigator).
- 6) 1999-2001:** With Prof. Paul Rutecki, worked on '*Glutamate Receptors and Hippocampal Epileptiform Activity*' National Institute of Neurological Disorders and Stroke, RO1-25020 using Defense Department funds (as a co-investigator).
- 7) 2000-2001:** As an indepent researcher worked on his Junior Investigator Research Grant (*Febrile Convulsions, Developmental Plasticity and Epileptogenesis*) using funds of American Epilesy Foundation.
- 8) 2002-2004:** With Prof. Sevil Atasoy, worked on '*United Nations Global Assessment on Drug Abuse National Project*' (GAP-AD/TUR 02/602/102) for a national survey on the assessment of drug abuse in Turkey.
- 9) 2009-2013:** National survey on female sexual behavior (İstanbul Report).
- 10) 2010-2013:** National and global surveys on expanded sexual response (ESR) on female sexual behavior.
- 11) 2012-2013:** National Survey on Female Sexual Behavior-İstanbul Report

COMPUTER EXPERIENCE:

Used all the programs in Microsoft Office (Word, Powerpoint, Publisher, Excell, Frontpage etc.); Adobe Photoshop; Adobe Illustrator; Freehand; AutoCAT; Sonic Foundry; Movie Maker, Adobe Premier Pro 1.5 Movie program, Edius movie program; Adobe Flash; Adobe in Design; Adobe After Effects; Adobe Fireworks; Adobe Dreamweaver web design program; Picassa etc.

PERSONAL WEB SITES:

www.drumitsayin.com
www.sexusjournal.com ve www.sexusjournal.org
www.ciseated.org

Other Web Sites He Made:

www.twincongress2015.com
www.sexologycongress2014.com
www.biricikmaket.com
www.evefestival.org
www.cinselegitim.org
www.tantraakademi.com
www.expandedorgasms.net

REFEREE IN THE JOURNALS:

REFEREE OF PEER-REVIEWED JOURNALS

"Epilepsy Research",
"Life Sciences",
"Brain Research",
"Epilepsia",
"Pharmacology, Biochemistry and Behaviour",
"Behavioral Brain Research",
"Neuroscience",
'Journal of Neurological Sciences'
Referee and Section Editor in NeuroQuantology Journal
Editor-in-Chief and founder of SexuS Journal

CITATIONS:

His papers have been cited in the journals with an impact factor ranging from 1.1 to 8. Until November 2014, there were around 1050 citations. His work has been cited in 42 books.

CONDUCTED THESIS AS AN ADVISOR:

<p>PINAR ÇETİNKAYA</p>	<p>SEXUAL PROFILE OF UNIVERSITY GRADUATE TURKISH WOMEN</p> <p>(YÜKSEK ÖĞRENİM GÖRMÜŞ KADINLARIN CİNSEL PROFİLİ) İSTANBUL ÜNİVERSİTESİ, SOSYAL BİLİMLER ENSTİTÜSÜ, KADIN ÇALIŞMALARI ANABİLİM DALI, YÜKSEK LİSANS TEZİ, 2006</p>
<p>BARIŞ MUTLU</p>	<p>PSYCHOACTIVE DRUG AND HALLUCINOGEN TRADE MADE THROUGH THE INTERNET</p> <p>(İNTERNET ÜZERİNDEN YAPILMAKTA OLAN UYUŞTURUCU, UYARICI VE HALÜSİNOJEN TİCARETİ) İSTANBUL ÜNİVERSİTESİ, ADLİ TIP ENSTİTÜSÜ, SOSYAL BİLİMLER ANABİLİM DALI, YÜKSEK LİSANS TEZİ, 2005</p>
<p>SİBEL BOLLE</p>	<p>EFFECTS OF SALVINORIN-A ON THE ANIMAL MODELS</p> <p>SALVINORİN-A İSİMLİ MADDENİN HAYVAN DAVRANIŞ MODELLERİNDEKİ ETKİSİNİN ARAŞTIRILMASI İSTANBUL ÜNİVERSİTESİ, ADLİ TIP ENSTİTÜSÜ, SOSYAL BİLİMLER ANABİLİM DALI, YÜKSEK LİSANS TEZİ, 2005</p>
<p>ZAFER YENER</p>	<p>THE EVALUATION OF GLOBAL TRADE OF PSYCHOACTIVE PLANTS, OPIATES AND STIMULANTS IN TERMS OF NATIONAL SECURITY IN TURKEY</p> <p>KÜRESEL UYUŞTURUCU VE UYARICI MADDE KAÇAKÇILIĞININ ULUSAL GÜVENLİK VE TERÖRİZM AÇISINDAN DEĞERLENDİRİLMESİ T.C. KARA HARP OKULU, SAVUNMA BİLİMLERİ ENSTİTÜSÜ, GÜVENLİK BİLİMLERİ ANABİLİM DALI, 2006</p>
<p>CANER KARAHAN</p>	<p>THE EVALUATION OF CHEMICAL AND NEUROCHEMICAL WEAPON TECHNOLOGY IN TERMS OF NATIONAL SECURITY IN TURKEY</p> <p>KİMYASAL VE NÖROKİMYASAL SİLAH TEKNOLOJİSİNİN ULUSAL GÜVENLİK AÇISINDAN DEĞERLENDİRİLMESİ T.C. KARA HARP OKULU, SAVUNMA BİLİMLERİ ENSTİTÜSÜ, GÜVENLİK BİLİMLERİ ANABİLİM DALI, 2006</p>
<p>LEVENT ÇETİNKAYA</p>	<p>THE ACTIVITIES OF PROTESTAND MISSIONARIES AND THEIR TASK PROFILE AFTER 1990 AND ITS EVALUATION IN TERMS OF NATIONAL SECURITY (İSTANBUL SAMPLE)</p> <p>TÜRKİYE'DE PROTESTAN MİSYONERLİK FAALİYETLERİNİN 1990 SONRASI DÖNEMDE GÖREV PROFİLİ VE ULUSAL GÜVENLİK AÇISINDAN DEĞERLENDİRİLMESİ (İSTANBUL ÖRNEĞİ) T.C. KARA HARP OKULU, SAVUNMA BİLİMLERİ ENSTİTÜSÜ, GÜVENLİK BİLİMLERİ ANABİLİM DALI, 2005</p>

THE GRADUATE COURSES HE HAS TAUGHT:

YEAR	NAME OF THE COURSE	Teoretical	Students
2002-2003	Forensic Neuroscience	3h/week	14
2003-2004	Forensic Psychopharmacology	3h/week	9
2003-2004	Internet Crimes	Total 9 h	8
2004-2005	Sexual Physiology and Sexual Function Disorders	2h/week	4
2004-2005	Forensic Psychopharmacology	3h/week	4
2005-2006	Pharmacology of Psychoactive Substances	2h/week	2
2006-2007	Pharmacology of Psychoactive Substances	2h/week	5
2008-2014	Forensic Psychopharmacology	2h/week	Various
2004-2014	Physiology of Human Sexuality and Basics of Sex Therapy	various	Various

ATTENDED MEETINGS AND CONGRESSES:

1990	International Psychopharmacology Meeting, Bodrum, October (Ekim) 1990.
1990	10 th National Pharmacology Meeting, Bursa, September (Eylül) 1990.
1991	7. International Medical Sciences Students Congress, DETAM, Istanbul, May (Mayıs), 1991.
1991	Istanbul University 11 th Medical Meeting, Istanbul, September (Eylül), 1991.
1992	8. International Medical Sciences Student Congress, DETAM, Istanbul, May (Mayıs), 1992.
1995	International Epilepsy (AES) Meeting, Baltimore, December (Aralık-December), 1995.
1996	International Society for Neuroscience Meeting , Washington, D.C. November (Kasım), 1996.
1996	International Epilepsy (AES) Meeting, San Fransisco, ABD, Decembe (Aralık-December), 1996.
1997	International Society for Neuroscience Meeting, New Orleans, October (Ekim), 1997.
1997	International Epilepsy (AES) Meeting, Boston, December (Aralık-December), 1997.

1998	International Society for Neuroscience Meeting, Los Angeles, November (Kasım), 1998.
1998	International Epilepsy (AES) Meeting, San Diago, December (Aralık-December), 1998.
1999	American Neurological Association Meeting, Seatle, October (Ekim), 1999.
2000	International Society for Neuroscience Meeting, New Orleans, November (Kasım), 2000.
2000	International Epilepsy (AES) Meeting, Los Angeles, December (Aralık-December), 2000.
2001	International Epilepsy (AES) Meeting, San Fransisco, December (Aralık-December), 2001.
2002	International Epilepsy (AES) Meeting, Los Angeles, December (Aralık-December), 2002.
2003	International 3rd European Academy of Forensic Science Triennial Meeting, Istanbul, September (Eylül) 2003.
2003	International Epilepsy (AES) Meeting, Boston, December (Aralık-December) 2003.
2005	International American Epilepsy Society and American Clinical Neurophysiology Society Joint Annual Meeting, Washington, D.C. 2005.
2006	International 31 st , FEBS Congress, 24-26 June, İstanbul, Turkiye, 2006.
2011	International 33 rd NACS (Nordic Association for Clinical Sexology) Conference, Oslo, Norway, October 13-16, 2011.
2012	38 th International Annual Meeting of IASR (International Academy of Sex Research), Lisbon-Portual, July 8-11, 2012.
2012	20 th International DGSS-Conference-Munich-Germany; DGSS Deutsche- Gesellschaft -für- SozialwissenschaftlicheSexualforschung e.V. 25 th -29 th May, 2012.
2012	International 34 th NACS (Nordic Association for Clinical Sexology) - Sexology Conference (Pleasure and Health) Helsinki-Finland, 4-7 October, 2012.
2014-2015	Organizing International Anatolian Twin Congress on Neuroscience and Sexual Health www.twincongress2015.com

2015 International 17th Congress of ESSM on Sexual Health, 2015, European Society for Sexual Medicine. 5-7 February, 2015, Copenhagen-Denmark

SCIENTIFIC PUBLICATIONS

PUBLISHED, ACCEPTED OR PREPARED SCIENTIFIC ARTICLES, REVIEWS, RESEARCH PAPERS:

39- Sayın HÜ. Psychoactive Plant Use in Religious Rituals. (Book Chapter) In “**Neuropathology of Drug Addictions and Substance Misuse**” Ed. Victor Preedy, Amsterdam-Netherlands: Elsevier Press, 2015, in press (accepted, kabul edildi).

38- Sayın HÜ. Arısal T, Kocatürk A and Dedecan I. Effects of low frequency vibrator use in Turkish women. Online; *Archives of Sexology*, <http://www.sexarchive.info/news.htm>, <http://sexarchive.info/BIB/turwom2.htm> , **2014.**

37- Sayın HÜ. Kocatürk A, and Dedecan I. Sexual Behavior of Turkish Women and Sexual Rights in Turkey. Online; *Archives of Sexology*, <http://www.sexarchive.info/news.htm>, <http://sexarchive.info/BIB/turwom1.htm> **2014.**

36- Sayın HÜ. E Hutchinson, ME Meyerand, T Sutula. Age-dependent long-term structural and functional effects of early life seizures: evidence for a hippocampal critical period influencing plasticity in adulthood- (in Press, accepted by **Neuroscience Journal**), **2015.**

35- Sayın HÜ. Kocatürk A. A critical analysis of HDSI criteria in DSM-V (In preparation-hazırlanıyor) **2015.**

34- Sayın HÜ. Does the Nervous System Have an Intrinsic Archaic Language? Entoptic Images and Phosphenes (Research and Review). *Neuroquantology* 12 (3): 427-445, **2014.**

33- Sayın HÜ. The Consumption of Psychoactive Plants During Religious Rituals: The Roots of Common Symbols and Figures in Religions and Myths, (Research and Review) *Neuroquantology*, 12 (2): 276-296, **2014.**

32- Sayın HÜ. Holographic Brain: A four dimensional model for learning, memory and information retrieval of the human brain. (Review, In preparation-

hazırlanıyor) **2015-2016.**

31- Sayın HÜ. Doors of female orgasmic consciousness: New theories on the peak experience and mechanisms of female orgasm and expanded sexual response. (Research and Review) *NeuroQuantology*, 10 (4): 692-714, **2012.**

30- Sayın HÜ and Kocatürk A. Expanded sexual response in the human female: The mechanisms of expanded orgasms in women (Review). Proceedings of NACS-2012-Helsinki Conference, *Helsinki-Finland (4-7 October, 2012) Proceedings Book* 2012; pp: 147-163, **2012.**

29- Sayın HÜ. A Comparative review of the neuropharmacology of hallucinogen-induced altered states of consciousness: The uniqueness of some hallucinogens. (Review) *NeuroQuantology*; 10 (2): 316-340, **2012.**

28- Sayın HÜ. Altered states of consciousness occurring during expanded sexual response in the human female: preliminary definitions.(Review) *NeuroQuantology*; 9(4): 882-891, **2011.**

27- Westmark CJ, Gourronc FA, Bartleson VA, Sayın Ü. , Bhattacharya S, Sutula T and Malter JS, HuR mRNA Ligands Expressed After Seizure, *Journal of Neuropathology and Experimental Neurology*, 64 (12): 1037-1045, 2005.

26- Sayın Ü, Sutula TP, and Stafstrom C. Seizures in the Developin Brain Cause Adverse Long-Term Effects on Spatial Learning and Anxiety. *Epilepsia*, 45 (12) 1539-1548, **2004.**

25- Sayın Ü, Osting S, Hagen J, Rutecki PA, Sutula T. Spontaneous Seizures and Loss of Axo-Axonic and Axo-Somatic Inhibition Induced by Repeated Brief Seizures in Kindled Rats, *The Journal of Neuroscience*, 23 (7): 2759-2768, **2003.**

24- Sayın Ü and Rutecki PA. Group I Metabotropic Glutamate Receptor Activation Produces Prolonged Epileptiform Neuronal Synchronization and Alters Evoked Population Responses in the Hippocampus, *Epilepsy Research*, 53: 186-195, **2003.**

23- Rutecki PA, Sayın Ü, Yang Y, and Hadar E. Determinants of Ictal Epileptiform Patterns in the Hippocampal Slice, *Epilepsia*, 43 (Suppl. 5): 179-183, **2002.**

22- Hadar E, Yang Y, Sayın Ü, Rutecki PA. Suppression of Pilocarpine-induced Ictal Oscillations in the Hippocampal Slice, *Epilepsy Research*,49: 61-71, **2002.**

21- Sayin Ü, Rutecki PA, Mellanby J, Sutula T. Gamma Vinyl GABA Reduces Paired Pulse Inhibition in Rat Dentate Gyrus *in vivo* and *in vitro*. *Epilepsy Research*, 44:109-117, **2001**.

20- Lynch M, **Sayin Ü**, Golarai G, Sutula TP. NMDA-Receptor Dependent Plasticity of Granule Cell Firing in the Dentate Gyrus of Normal and Epileptic Rats. *J. Neurophysiology*,84: 2868-2879, **2000**.

19- Lynch M, **Sayin Ü**, Bownds J, Janumpalli S, Sutula TP. Long Term Consequences of Early Postnatal Seizures on Hippocampal Learning and Plasticity. *European. J. Neuroscience*, 12: 2252-2264, **2000**.

18- Sayin Ü and Kence A. Islamist Scientific Creationism: A New Challenge in Turkey, *Reports of National Center for Science Education*, 19 (6): 18-29, Nov/Dec **1999**.

17- Sayin Ü, Rutecki P.A. , Sutula T.P.NMDA Dependent Currents in Granule Cells of the Dentate Gyrus Contribute to the Induction but not the Permanence of Kindling *J. Neurophysiology* , 81 (2): 564-574, **1999**.

16- Sutula T, Zhang P, Lynch M, **Sayin Ü**, Golarai G and Rod R. Synaptic and axonal remodeling of mossy fibers in the hilus and supragranular region of the dentate gyrus in kainate treated rats. *J. Comparative Neurology*, 390 (4): 578-594, **1998**.

15- Sayin Ü, Atasoy S, Uzbay IT, Arıcıoğlu-Kartal F, and Koyuncuoğlu H. Gamma Vinyl GABA potentiates the severity of naloxone-precipitated abstinence signs in morphine dependent rats. *Pharmacological Research*, 38 (1): 45-51, **1998**.

14- Sayin Ü, and Rutecki PA. Effects of Pilocarpine on the Paired Pulse Inhibition in the CA3 Region of the Rat Hippocampus, *Brain Research*, 758: 136-142, **1997**.

13- Sayin Ü, Timmerman W, and Westerink BHC. The Significance of Extracellular GABA in the Substantia Nigra of the Rats During Seizures and Anticonvulsant Treatment . *Brain Research*, 669: 67-72, **1995**.

12- Koyuncuoğlu H, **Sayin Ü**, Dizdar Y, and Arıcıoğlu F. Effects of a Competitive NMDA Antagonist, CGP 39551, on Morphine Physical Dependence: Attenuation and Intensification. *Turkish. J. Medical Sciences*, 21:163-168, **1994**.

11- Mellanby J, **Sayin Ü**, and Stanley M. Glutamic Acid Decarboxylase Activity in Tetanus Toxin-Induced Rat Epilepsy. *Turkish J. Medical Sciences* , 22:167-170, **1994**.

10- Odabaşı Z, Gökçil Z, **Sayın Ü**, Dolu H, and Yardım M. Neurosarcoidosis: A Case Study with Optic Nerve Involvement. *Turkish J. Medical Sciences*, 22:191-193, **1994**.

9- Cengiz S, Cengiz M, Küçük M, Özkök E, **Sayın Ü**, and Büyükdevrim S. Expression and Purification of Rat Pancreas Glicolipids during Streptozotasin (STZ) Diabetes and Nicotinamide Protection. *Turkish J. Medical Sciences*, 20:211-214, **1994**.

8-**Sayın Ü**, Cengiz S, and Altug T. Vigabatrin as an Anticonvulsant Against Pentylene-tetrazol Seizures. *Pharmacological Research*, 28 (4): 325-331, **1993**.

7- Rıdvanoğulları M, Aydın A, Anıl Y, **Sayın Ü**, Dinçol K, and Topuz E. Potentiation of Etoposide-induced DNA Damage by Verapamil in L-strain Cells in vitro. *J. Experimental & Clinical Cancer Research*, 12: 255-260, **1993**.

6- Alponat A, **Sayın Ü**, Öz B, Ertem M, Dabak D, Şirin F, and Büyükdevrim S. The Role of Aprotinin and Somatostatin in the Treatment of Acute Pancreatitis in the Rat. *Turkish J. Biological & Medical Research*, 4(2):141-146, **1992**.

5- **Sayın Ü**, Puralı N, Özkan T, Altuğ T, and Büyükdevrim S. Vigabatrin Has an Anxiolytic Effect in the Elevated Plus Maze Test of Anxiety. *Pharmacology, Biochemistry & Behavior*, 43: 529-535, **1992**.

4- Koyuncuoğlu H, Dizdar Y, Arıcıoğlu F, and **Sayın Ü**. Effects of MK-801 on Morphine Physical Dependence: Attenuation and Intensification. *Pharmacology, Biochemistry & Behavior*, 43: 487-490, **1992**.

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