

CURRICULUM VITAE

NAME: Wilkie Andrew Wilson, Jr.

Address: Durham, North Carolina 27701
Phone: (919) 949-8063

EDUCATION: Louisiana State University
Baton Rouge, Louisiana
Major: Electrical Engineering
BSEE, 1966

Duke University
Durham, North Carolina
Advisor Howard Wachtel, Ph.D.
*A Voltage Clamp Analysis of Slow Waves and Prolonged
Synaptic Potentials in Bursting Neurons*
Dept: Biomedical Engineering & Physiology
Ph.D., 1971

POSTGRADUATE TRAINING: Physiologist and Biomedical Engineer
Epilepsy Center
Durham Veterans Administration Medical Center
1971 - 1973

Associate, Departments of Physiology and
Pharmacology
Duke University Medical Center
1973 - 1977

ACADEMIC APPOINTMENTS:

VA appointments: Director of Neurophysiology Laboratory
Epilepsy Center
VA Medical Center
1977 - 1984

Associate Research Career Scientist
1984 - 1988

Research Career Scientist
1988 - 2010

Emeritus since 2011

Duke University appointments: Associate, Departments of Physiology & Pharmacology
1973-1977

Member of Graduate Faculty
1975-present

Asst. Medical Research Professor of Medicine &
Pharmacology
1977-1980

Associate Medical Research Professor of Pharmacology
1981-1991

Associate Medical Research Professor of Medicine
1985-2010

Medical Research Professor of Pharmacology
1991-2009
Course organizer for Neurology Residents

Supervisor of Medical Students in
Neuroscience Training Program

Director, Neuropharmacology Course
1990 – 1997

Director, DukeLEARN
(www.dukelearn.com)

Professor of Prevention Science
Duke University
2009-Present

**INTERNATIONAL & NATIONAL
PROFESSIONAL ACTIVITIES:**

Chairman, Veterans Administration
Central Office Merit Review Panel for
Regeneration Research Program
1990

Member, International Commission on
Neurobiology of Epilepsy
1990 - 1994

Member, Governing Committee for the Workshop on
Neurobiology of Epilepsy International League Against
Epilepsy
1989 - 1998

Member, Epilepsy Foundation of America
Grants and Review Study Board
1983 – 1988; 1990 - 1995

Member, Veterans Administration Central Office Board of

Merit Review Appeals
1990 - 1993

Member, Epilepsy Foundation of America
Professional Advisory Board
1985 - 1989

NIH and VA Study Sections - Ad Hoc
1979 and continuing

Member, Veterans Administration Study
Section for Career Research Scientists
1985 - 1987

Field Editor, *Epilepsy Advances*
1985 - 1989

Chairman and Organizer
Investigators Workshop
American Epilepsy Society
1985 - 1989

Member, Long Range Planning Committee
American Epilepsy Society
1987 - 1998

Member, NIH Liaison Committee
American Epilepsy Society
1988 - 1995

Consulting Editor, *Epilepsy Research*
1989 - 1999

Senior Editor
3rd Edition *Jasper's Basic Mechanisms of the Epilepsies*
1995 - 2000

Councilor
American Epilepsy Society
1991 - 1996

Chairperson
Neurological Sciences Initial Review Group
Special Emphasis Panel - ZRG1-NLS-1
1995 - 1996

Program Specialist in Neurobiology
Veterans Administration
1991 - 1997

Consultant in Instrumentation Design
Dagen Corp.
Minneapolis, Minnesota
1976

Consultant for Wyeth Ayerst Pharmaceuticals for evaluation
of potential anticonvulsant drugs
1997 – 2000

Consultant for Icagen Pharmaceuticals for analysis of drug
actions in small neural networks
1998 – 2001

Consultant for Krenitsky Pharmaceuticals for analysis of
neuroactive drugs
1999 – 2001

Consultant for Orphan Medical for studies of gamma-
hydroxybutyrate
2000 – 2001

Consultant for Amgen Corporation for studies of long-term
potentiation
2002-2003

Member, Search Committee for Chair, Duke Pain Program
1999

Legal Expert in civil and criminal cases

SOCIETIES, SCIENTIFIC:

Society for Neuroscience
N.C. Society for Neuroscience
American Epilepsy Society
American Physiological Society

HONORS AND AWARDS:

Sigma Xi
Tau Beta Phi
Phi Kappa Phi
Eta Kappa Nu

RESEARCH INTERESTS:

Long-term:

Regulation of Excitation in Neural Networks

Current Projects:

1. Alcohol effects on the CNS
2. Brain mechanisms of Gamma-hydroxybutyrate (GHB)
3. Brain mechanisms of THC action in the brain
4. Unique effects of recreational drug on the adolescent brain
5. Incorporation of neuroscience into educational curricula

CURRENT FINANCIAL RESOURCES:

VA: Research Career Scientist Award
2000 – 2010
Direct costs \$1,500,000

Merit Review 438-72-7954; Neuroprotection by dietary
choline 2004-2008
Direct Costs \$450,000

NIH:

R01 AA12478-01: “Long Term Effects of Ethanol Exposure
During Adolescence”
Co-P.I.
Direct Costs: \$977,750 (2000 – 2009)

R01 DA019346 “Developmental THC Sensitivity in Male
and Female Rats”
Co-PI
Direct Costs \$ 900,000 (2004-2009)

R01DA014931-01A2: “GHB Tolerance and Dependence”
Co-P.I.
Direct Costs: \$700,000 (2003-2007)

POSTDOCTORAL FELLOWS TRAINED:

Gary Evans, Ph.D.
Senior Scientist
Becton Dickinson & Co. Research Center
Research Triangle Park, N.C.

William F. Colmers, Ph.D.
Professor
Department of Pharmacology
University of Alberta
Edmonton, Alberta, Canada

Andrew Bragdon, M.D.
Associate Professor of Neurology
Syracuse University
Syracuse, N.Y.

Scott Swartzwelder, Ph.D.
Professor
Department of Psychiatry
Duke University
Durham, N.C.

Leslie S. Jones, Ph.D.
Associate Professor

Department of Anatomy
Univ. of South Carolina
Columbia, S.C.

Darrell V. Lewis, M.D.
Professor Emeritus
Department of Pediatrics (Neurology)
Duke University Medical Center
Durham, N.C.

Michael J. Iadarola, Ph.D.
Branch Chief
NIH, NIMH
Washington, D. C.

Richard Morrisett, Ph.D.
Professor
Division of Pharmacology & Toxicology
College of Pharmacy
University of Texas
Austin, TX

David Martin, Ph.D.
Senior Scientist
Amgen Pharmaceuticals
Thousand Oaks, CA

Hisashi Kojima, M.D.
Assistant Professor of Neurosurgery
Akita University Medical Center
Akita, Japan

Scott D. Moore, M.D., Ph.D.
Associate Professor
Department of Psychiatry
Duke University

Nevin A. Lambert, Ph.D. 1993-1997
Associate Professor
Department of Pharmacology & Toxicology
Medical College of Georgia
Augusta, GA

Maenghee Kang Park, Ph.D.
Assistant Professor
Department of Psychiatry
Duke University

Suzanne Clark, Ph.D.
Assistant Professor
University of Wyoming

Chunsheng Wang, MD, PhD
Assistant Professor
Department of Psychiatry
Duke University

Qiang Li, MD, Ph.D.
Assistant Professor
Department of Psychiatry
Duke University

Byung Joon Choi, M.D.
Associate Professor
Department of Pediatrics
Catholic University Medical College
Soul, South Korea

Katherine Jones, Ph.D.
Research Administration
VA Medical Center
Durham, NC

GRADUATE STUDENTS SUPERVISED
AND CURRENT POSITIONS:

Terry Pellmar, Ph.D. (1977)
Scientific Director, Armed Forces Radiobiology Institute
Bethesda, MD

Ila L. Cote, Ph.D. (1979)
Emeritus Head, Air Program at Health Effects Research Lab
Environmental Protection Agency
Research Triangle Park, NC

Kerry Zbicz, Ph.D. (1979)
Senior Scientist
Glaxo Wellcome Corp.
Research Triangle Park, N.C.

Sidney Gospe, MD, Ph.D. (1980)
Chairman, Dept. Pediatric Neurology
University of Washington
Seattle, WA

Ruth Wachtel, Ph.D. (1980)
Associate Professor
Department of Physics & Biophysics
University of Iowa Medical Center
Iowa City, Iowa

John Huguenard, Ph.D. (1983)
Professor

Department of Neurology
Stanford University
Palo Alto, California

Steven Stasheff, M.D., Ph.D. (1991)
Assistant Professor
University of Iowa
Iowa City, IA

David Mott, Ph.D. (1991)
Associate Professor
University of South Carolina
Columbia, SC

Donald Taylor, M.D., Ph.D. (1991)
Associate Professor of Anesthesiology
University of California
San Francisco, CA

Deborah Barr, Ph.D. (1994)
Medical Writer
Orlando Sentinel
Orlando, FL

Suzanne Clark, Ph.D. (1995)
Assistant Professor
University of Wyoming
Laramie, WY

COMMUNITY LEADERSHIP SERVICE
1980-present

President of Trinity Park Association
(a neighborhood association)

Member, Administrative Board, Duke Memorial
Methodist Church

Member, System-wide Advisory Board, Durham Schools

Member, Durham County Commissioners' School Merger
Task Force

Durham Public Schools Budget Advisory Committee

Advisor, Center for Substance Abuse Research
University of Maryland

Member, North Carolina Drug Treatment Court Advisory
Committee

Columnist, Health Sector Salon.com

Expert witness for the defense in capital murder cases

Journal Articles:

David, R.J., **W.A. Wilson** and A.V. Escueta: Voltage Clamp Analysis of Pentylentetrazol on Aplysia Neurons. Brain Res., 67:549, 1974.

Wilson, W.A. and A.V. Escueta: Common Synaptic Effects of Pentylentetrazol and Penicillin. Brain Res., 72:168, 1974.

Escueta, A.V., J. Boxley, N. Stubbs, G. Waddell and **W.A. Wilson**: Prolonged Twilight State and Automatism. Neurology, 24:331, 1974.

Wilson, W.A. and H. Wachtel: A Negative Resistance Characteristic Essential for the Maintenance of Slow Oscillation in Bursting Neurons. Science, 86:932-934, 1974.

Wilson, W.A. and M. Goldner: Voltage Clamping with a Single Microelectrode. J. Neurosci Meth., 6:411-422, 1975.

Wilson, W.A., M.T. Clark and T. Pellmar: Tris Buffer Attenuates Acetylcholine Responses in Aplysia Neurons. Science, 196:440-441, 1977.

Pellmar, T. and **W.A. Wilson**: Penicillin Effects on Iontophoretic Responses in Aplysia californica. Brain Research, 136:89-101, 1977.

Dunn, P.F. and **W.A. Wilson**: Development of the Single Microelectrode Current and Voltage Clamp for Central Nervous System Neurons. Electroencephalography & Clinical Neurophysiology, 43:752-756, 1977.

10 Pellmar, T. and **W.A. Wilson**: Synaptic Mechanism of Pentylentetrazol: Reduction of Chloride Conductance. Science, 197:912-914, 1977.

Pellmar, T. and **W.A. Wilson**: Unconventional Serotonergic Excitation in Aplysia. Nature, 296:76-79, 1977.

Parmentier, J.L, T. Narahashi, **W.A. Wilson**, N.M. Trieff, V.M.S. Ramanujam, M.A. Risk, S.M. Ray: Electrophysiological and Biochemical Characteristics of Gynnodinium Breve Toxins. Toxicon, 16:235-244, 1978.

Cote, I.L., K.L. Zbicz and **W.A. Wilson**: Barbiturate Induced Slow Outward Current in Aplysia Neurons. Nature, 274:594-597, 1978.

4 **Wilson, W.A.** and H. Wachtel: Prolonged Inhibition in Burst Firing Neurons: Synaptic Inactivation of the Slow Regenerative Inward Current. Science, 202:772-775, 1978.

- Cote, I.L. and **W.A. Wilson**: Effects of Barbiturates on Inhibitory and Excitatory Responses to Applied Neurotransmitters in Aplysia. J. Pharm. Exp. Ther., 214:161-165, 1980.
- Gospe, S.M. and **W.A. Wilson**: Dopaminergic Inhibition of Aplysia Burst Firing Neuron R15. J. Pharm. Exp. Ther., 214:112-118, 1980.
- Johnston, D., J. Hablitz and **W.A. Wilson**: Voltage Clamp Disclosures Slow Inward Current in Hippocampal Burst-Firing Neurons. Nature, 286:391-393, 1980.
- Zbicz, K. and **W.A. Wilson**: Barbiturate Inhibition of Sustained Firing in Aplysia Giant Neurons. J. Pharm. Exp. Ther., 217: 222-227, 1981.
- Gospe, S.M. and **W.A. Wilson**: Pharmacological Studies of a Novel Dopamine Receptor Mediating Burst-Firing Inhibition of Neurosecretory Cell R15 in Aplysia californica. J. Pharm. Exp. Ther., 216:368-377, 1981.
- Lewis, D.V., K.L. Zbicz, M.E. Nepp and **W.A. Wilson**: Diphenylhydantoin Enhances Early Adaptation in Aplysia Giant Neurons. J. Pharm. Exp. Ther., 218:41-46, 1981.
- Wachtel, R.E. and **W.A. Wilson**: Use of the Single Electrode Voltage Clamp to Perform Noise and Relaxation Studies of Acetylcholine Activated Channels in Aplysia Neurons. J. Neurosci. Methods, 4:87-103, 1981.
- Gospe, S.M., Jr., L.L. Cook, K.A. Crutcher and **W.A. Wilson**: Biochemical and Histochemical Studies of the Effect of Reserpine in Aplysia californica. J. Comp. Biochem. Physiol., 70C:273-276, 1981.
- Gospe, S.M., Jr. and **W.A. Wilson**: Burst-Firing Inhibition of Cell R15 in Aplysia californica: Pharmacological Studies of the Effects of Tyramine, Beta-Phenethylamine and d-Amphetamine. J. Comp. Biochem. Physiol., 71C(2):249-254, 1982.
- Lewis, D.V. and **W.A. Wilson**: Calcium Influx and the Post-Stimulus Current During Early Adaptation in Aplysia Giant Neurons. J. Neurophysiol., 48:202-216, 1982.
- Colmers, W.F., D.V. Lewis and **W.A. Wilson**: Cs⁺ Loading Reveals Na⁺-Dependent Persistent Inward Current and Negative Slope Resistant Region in Aplysia Giant Neurons. J. Neurophysiol., 48:1191-1200, 1982.
- Wachtel, R.E. and **W.A. Wilson**: Barbiturate Effects on Acetylcholine-Activated Channels in Aplysia Neurons. Mol. Pharm., 24:449-457, 1983.
- Lewis, D.V., G.J. Evans and **W.A. Wilson**: Dopamine Reduces Slow Outward Current and Calcium Influx in Burst Firing Neurons R15 of Aplysia. J. Neurosci., 4(12):3014-3020, 1984.
- Iadarola, M.J., R.J. Fanelli, J.O. McNamara and **W.A. Wilson**: Comparison of the Effects of Diphenylbarbituric Acid, Pheno-, Pento- and Secobarbital in GABA-Mediated Inhibition and Benzodiazepine Binding. J. Pharm. Exp. Ther., 232:127-133, 1985.
- Huguenard, J.R. and **W.A. Wilson**: Suppression of Repetitive Firing in Neurons Diphenylbarbituric Acid.

J. Pharm. Exp. Ther., 232:228-231, 1985.

Huguenard, J.R., K.L. Zbicz, D.V. Lewis, G.J. Evans and **W.A. Wilson**: The Ionic Mechanism of the Slow Outward Current in Aplysia Neurons. J. Neurophysiol., 54(2):449-461, 1985.

5 Stasheff, S.F., A.C. Bragdon and **W.A. Wilson**: Induction of Epileptiform Activity in Hippocampal Slices by Trains of Electrical Stimuli. Brain Res., 344:296-302, 1985.

Huguenard, J.R. and **W.A. Wilson**: Barbiturate-Induced Alternations in the Kinetic Parameters of Slow Outward Current in Aplysia Giant Neurons. J. Pharm. Exp. Ther., 234:821-829, 1985.

Swartzwelder, H.S., A.C. Bragdon, C.P. Sutch, B. Ault and **W.A. Wilson**: Baclofen Suppresses Hippocampal Epileptiform Activity at Low Concentrations Without Suppressing Synaptic Transmission. J. Pharm. Exp. Ther., 237:881-887, 1986.

Jones, L.S., G.J. Evans, **W.A. Wilson** and D.V. Lewis: A Novel, Calcium-Induced Triphasic Current Response in Non-Bursting Aplysia Neurons. Brain Res., 385:46-50, 1986.

Bragdon, A.C., D.M. Taylor and **W.A. Wilson**: Potassium-Induced Epileptiform Activity in Area CA3 Varies Markedly Along the Septotemporal Axis of the Rat Hippocampus. Brain Res., 378:169-173, 1986.

Swartzwelder, H.S., C.P. Sutch and **W.A. Wilson**: Attenuation of Epileptiform Bursting by Baclofen: Reduced Potency in Elevated Potassium. Experimental Neurology, 94:726-734, 1986.

Anderson, W.W., H.S. Swartzwelder and **W.A. Wilson**: The NMDA Receptor Antagonist 2-Amino-5-Phosphonovalerate Blocks Stimulus Train Induced Epileptogenesis but not Epileptiform Burst Activity in the Rat Hippocampal Slice. J. Neurophysiol., 57(1):1-21, 1987.

Swartzwelder, H.S., H.A. Tilson, R.L. McLamb and **W.A. Wilson**: Baclofen Disrupts Passive Avoidance Retention. Psychopharmacology, 92:398-401, 1987.

Anderson, W.W., D.V. Lewis, H.S. Swartzwelder and **W.A. Wilson**: Magnesium-Free Medium Activates Seizure-like Events in the Rat Hippocampal Slice. Brain Res., 398:215-219, 1986.

Swartzwelder, H.S., D.V. Lewis, W.W. Anderson and **W.A. Wilson**: Seizure-like Events in Brain Slices: Suppression by Interictal Activity. Brain Res., 410:362-366, 1987.

Swartzwelder, H.S. and **W.A. Wilson**: Differential Effects of Phenobarbital and Pentobarbital on Stimulus Train-Induced Bursting in the Hippocampal Slice. Epilepsia, 28(3):207-213, 1987.

Bragdon, A.C., D.M. Taylor, J.O. McNamara and **W.A. Wilson**: Abnormal Hyper-excitability of Hippocampal Slices from Kindled Rats in Transient. Brain Res., 453:257-264, 1988.

Swartzwelder, H.S., W.W. Anderson, **W.A. Wilson**: Mechanism of Electrographic Seizure Generation in the Hippocampal Slice in Mg⁺⁺-free Medium: The Role of GABA_A Inhibition. Epilepsy Res., 2:239-245, 1988.

Swartzwelder, H.S., K. L. Farr, **W.A. Wilson**, and D.D. Savage: Prenatal Exposure to Ethanol Decreases Physiological Plasticity in the Hippocampus of the Adult Rat. Alcohol, 5:121-124, 1988.

Wilson, W.A., H.S. Swartzwelder, W.W. Anderson, and D.V. Lewis: Seizure Activity in Vitro: A Dual Focus Model. Epilepsy Res., 2:289-293, 1988.

Sidel, E.S., H.A. Tilson, R.L. McLamb, **W.A. Wilson**, and H.S. Swartzwelder: Potential Interactions between GABA_B and cholinergic systems: Baclofen augments scopolamine-induced performance deficits in the eight-arm radial maze. Psychopharmacology 96:116-120, 1988.

Swartzwelder, H.S., C. Ferrari, W.W. Anderson, and **W.A. Wilson**: MK-801 attenuates the development, but not the expression, of long-term potentiation and stimulus train induced bursting in hippocampal slices. Neuropharmacology, 28:441-445, 1989

Mott, D.D., A.C. Bragdon, D.V. Lewis, and **W.A. Wilson**: Baclofen has a proepileptic effect in the dentate gyrus. J. Pharm Exp. Ther. 249:721-725, 1989.

2 Stasheff, S.F. W.W. Anderson, S. Clark, and **W.A. Wilson**: NMDA Antagonists differentiate epileptogenesis from seizure expression in an *in vitro* seizure model. Science, 245:648-651, 1989.

Morrisett, R.A., D. Martin, **W.A. Wilson**, D.D. Savage, and H.S. Swartzwelder: Prenatal exposure to ethanol decreases the sensitivity of the adult hippocampus to N-Methyl-D-Aspartate. Alcohol, 6:415-420, 1989.
Stasheff, S.F. and **W.A. Wilson**: Increased Ectopic Action Potential Generation Accompanies Epileptogenesis in vitro. Neurosci. Letters, 111:144-150, 1990.

Mott, D.D., D.V. Lewis, C.M. Ferrari, **W.A. Wilson** and H.S. Swartzwelder: Baclofen Facilitates the Development of Long-term Potentiation in the Rat Dentate Gyrus. Neurosci. Lett. 113:222-226, 1990.

Morrisett, R.A., A.H. Rezvani, D. Overstreet, D.S. Janowsky, **W.A. Wilson** and H.S. Swartzwelder: MK-801 Potently Inhibits Alcohol Withdrawal Seizures in Rats. Eur. J. of Pharm., 176:103-105, 1990.

Morrisett, R.A., D.D. Mott, D.V. Lewis, **W.A. Wilson** and H.S. Swartzwelder: Reduced Sensitivity of the N-Methyl-D-Aspartate Component of Synaptic Transmission to Magnesium in Hippocampal Slices from Immature Rats. Dev. Brain Res., 56:257-262, 1990.

Lee, P., C.W. xie, D.V. Lewis, **W.A. Wilson**, C.L. Mitchell and J.S. Hong: Opioid-induced Epileptiform Bursting in Hippocampal Slices: Higher Susceptibility in Ventral than Dorsal Hippocampus. JPET, 253(2):545-551, 1990.

Anderson, W.W., S.F. Stasheff, H.S. Swartzwelder, and **W.A. Wilson**: Regenerative all-or-none Electrographic Seizures in the Rat Hippocampal Slice in Mg-free and Physiological Medium. Brain Res., 532:288-298, 1990.

McLamb, R.L., L.R. Williams, K.P. Nanry, **W.A. Wilson**, and H.A. Tilson: MK-801 Impedes the Acquisition of a Spacial Memory Task in Rats. Pharm., Biochem. & Behavior, 37(1):41-45, 1990.

Morrisett, R.A., D.D. Mott, D.V. Lewis, H.S. Swartzwelder and **W.A. Wilson**: GABA_B-Receptor

Mediated Inhibition of the N-Methyl-D-Aspartate Component of Synaptic Transmission in Rat Hippocampus. J. Neurosci., 11(1):203-209, 1991.

Morrisett, R.A., D. Martin, T.A. Oetting, D.V. Lewis, **W.A. Wilson** and H.S. Swartzwelder: Ethanol and Mg^{++} Inhibit N-Methyl-D-Aspartate Mediated Synaptic Potentials in an Interactive Manner. Neuropharm., 30(11):1173-1178, 1991.

Martin, D., R.A. Morrisett, X-P. Bian, **W.A. Wilson** and H.S. Swartzwelder: Ethanol Inhibition of NMDA mediated Depolarizations is increased in the presence of Mg^{2+} . Brain Res., 546:227-234, 1991.

Hosford, D.A., Clark, S., Cao, Z., **Wilson, W.A.**, Lin, F., Morrisett, R.A. and Huin, A.: Role of GABA_B receptor activation in absence seizures of lethargic (lh/lh) mice. Science, 257:398-401, 1992.

Brucato, F.H., Morrisett, R.A., **Wilson, W.A.** and Swartzwelder, H.S.: The GABA_B receptor antagonist, CGP-35348, inhibits paired pulse disinhibition in the rat dentate gyrus in vivo. Brain Res., 588:150-153, 1992.

Bragdon, A.C., H. Kojima and **W.A. Wilson**: Suppression of interictal bursting in hippocampus unleashes seizures in entorhinal cortex: A proepileptic effect of lowering $[K^+]_B$ and raising $[Ca^{2+}]_B$. Brain Res., 590:128-135, 1992.

Morrisett, R.A., Lewis, D.V., Swartzwelder, H.S. and **Wilson, W.A.**: Antiepileptic effects of GABA_B receptor activation in area CA3 of rat hippocampus. Brain Res., 600:235-242, 1993.

Cohen, S.M., Martin, D., Morrisett, R.A., **Wilson, W.A.** and Swartzwelder, H.S.: Proconvulsant and anticonvulsant properties of ethanol: Studies of electrographic seizures in vitro. Brain Res., 601:80-87, 1993.

Lambert, N.A. and Wilson, W.A.: Discrimination of post-and presynaptic GABA_B receptor-mediated responses by tetrahydroaminoacridine in area CA3 of the rat hippocampus. J. Neurophysiol., 69:630-635, 1993.

Mott, D.D., Xie, C.W., **Wilson, W.A.**, Swartzwelder, H.S. and Lewis, D.V.: GABA_B autoreceptors mediate activity-dependent disinhibition and enhance signal transmission in the dentate gyrus. J. Neurophysiol., 69:674-691, 1993.

Stasheff, S.F., Hines, M. and Wilson, W.A.: Axon terminal hyperexcitability associated with epileptogenesis in vitro: I. Origin of ectopic spikes. J. Neurophysiol., 70:961-975, 1993.

Stasheff, S.F., Mott, D.D., **Wilson, W.A.**: Axon terminal hyperexcitability associated with epileptogenesis in vitro: II. Pharmacological regulation by NMDA and GABA_A receptors. J. Neurophysiol., 70:976-984, 1993.

Moore, S.D., Barr, D. and **Wilson, W.A.**: Seizure-like activity disrupts LTP in vitro. Neurosci. Letts., 163:117-119, 1993.

Lambert, N.A. and **Wilson, W.A.**: Heterogeneity in presynaptic regulation of GABA release from hippocampal inhibitory neurons. Neuron, 11:1057-1067, 1993.

Lambert, N.A. and **Wilson, W.A.**: Temporally distinct mechanisms of use-dependent depression at inhibitory synapses in the rat hippocampus. J. Neurophysiol., 72:121-130, 1994.

Swartzwelder, H.S., **Wilson, W.A.** and Tayyeb, M.I. Differential sensitivity of NMDA receptor-mediated synaptic potentials to ethanol in immature vs. mature hippocampus. Alcoholism: Clin. & Exp. Res., 19:320-323, 1995.

9 Barr, D.S., Lambert, N.A., Moore, S.D. and **Wilson, W.A.**: Induction and reversal of long-term potentiation by the same pattern of afferent activation. J. Neurosci., 15:5402-5410, 1995.

Swartzwelder, H.S., **Wilson, W.A.**, and Tayyeb, M.I. Age-dependent inhibition of long-term potentiation by ethanol in immature versus mature hippocampus. Alcoholism: Clin. & Exp. Res., 19(6):1480-1485, 1995

Burack, M.A., Stasheff, S.F. and **Wilson, W.A.**: Selective suppression of in vitro electrographic seizures by low-dose tetrodotoxin: A novel anticonvulsant effect. Epilepsy Res., 22(2):115-126, 1995.

Lambert, N.A. and **Wilson, W.A.**: High-threshold Ca^{2+} currents in rat hippocampal interneurons and their selective inhibition by activation of GABA_B receptors. J. Physiology, 492.1:115-127, 1996.

3 Little, P.J., Kuhn, C.M., **Wilson, W.A.** and Swartzwelder, H.S.: Differential effects of ethanol in adolescent and adult rats. Alcoholism: Clin. and Exp. Res., 20(8):1346-1351, 1996.

Brucato, F.H., Levin, E.D., Mott, D.D., Lewis, D.V., Wilson, W.A. and Swartzwelder, H.S.: Hippocampal long-term potentiation and spatial learning in the rat: Effects of GABA_B receptor blockade. Neurosci. 74:331-339, 1996.

Barr, D.S., Hoyt, K.L., Moore, S.D. and **Wilson, W.A.**: Post-ictal depression prevents induction of LTP in area CA1 of the rat hippocampal slice. Epilepsy Research, 27:111-118, 1997.

Markwiese, B., Acheson, S., Levin, E., **Wilson, W.A.**, and Swartzwelder, H.S.: Differential effects of ethanol on memory in adolescent and adult rats. Alcoholism: Clin. Exp. Res., 22(2):416-421, 1998

Swartzwelder, H.S., R.C. Richardson, B. Markwiese-Foerch, **W.A. Wilson** and P.J. Little: Developmental differences in the acquisition of tolerance to ethanol, Alcohol. 15(4):311-314, 1998.

Calton, J.L., **Wilson, W.A.** and Moore, S.D. Magnesium-dependent inhibition by N-Methyl-D-Aspartate receptor-mediated synaptic transmission by ethanol. JPET, 287(3):1015-1019, 1998.

Calton, J.L., **Wilson, W.A.** and Moore, S.D. Reduction of voltage-dependent currents by ethanol contributes to inhibition of NMDA receptor-mediated excitatory synaptic transmission. Brain Res., 816:142-148, 1999.

Pyapali, G.K., Turner, D.A., **Wilson, W.A.** and Swartzwelder, H.S. Age and dose-dependent effects of ethanol on the induction of hippocampal long-term potentiation. Alcohol, 19(2):107-111, 1999.

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Clark, S. and **W.A. Wilson**. Brain Slice Model of Epilepsy, Neuronal Networks and Actions of Antiepileptic Drugs. In: DRUGS FOR THE CONTROL OF EPILEPSY: Actions on Neuronal Networks Involved in Seizure Disorders, edited by C.L. Faingold and G.H. From, CRC Press, 1992, pp. 89-123

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Books:

1 *Buzzed: The Straight Facts About the Most Used and Abused Drugs from Alcohol to Ecstasy*, edited by Kuhn, C.M., Swartzwelder, H.S. and **Wilson, W.A.**, (W. W. Norton, 1998, 2003, 2008, 2014). English, Italian, Spanish (Portuguese market in Spanish), and Chinese (2015).

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Pumped: Straight Facts for Athletes About Drugs, Supplements and Training edited by Kuhn, C.M., Swartzwelder, H.S. and **Wilson, W.A.**, (W.W. Norton, 2000).

Just Say Know: Talking with kids about drugs and alcohol, Kuhn, C.M., Swartzwelder, H.S. and **Wilson, W.A.**, (W. W. Norton, 2002)

Neuroscience and Education

Director, DukeLEARN (Linking Education and Research in Neuroscience)

www.duklearn.com

Member, Center for Child and Family Policy, Duke University

Consultation service (selected) regarding drug education policy:

Partnership for a Drug Free America

Robert Wood Johnson Foundation

National Academy of Sciences–Institute of Medicine

Drug Strategies

North Carolina Advisory Committee for Drug Treatment Courts (member)

The Charles Dana Foundation

Consultations and appearances for the media:

Television (selected)

CBS 60 Minutes II (appearance)

Fox Television Network–Fox Files (appearance)

ABC News (appearance)

Local Raleigh-Durham Television–NBC, ABC, FOX (appearance)

Oprah (consultation)

Arnold Shapiro Productions–Teen Files (consultation)

Public Broadcasting system–Frontline (consultation)

ABC–20-20 (consultation)

ABC News Now

CBS San Francisco

Daytime (syndicated)

Radio (selected)

National Public Radio–Frank Stacio, Peoples Pharmacy

ABC Radio-multiple spots

CBS Radio–Mary Matalin and others

Over 100 national and local broadcasts

Print: Major articles

Seattle Post-Intelligencer–major feature republished nationally

Raleigh News and Observer–major feature republished

nationally
Book Reviews in The Economist, German and British news media, U.S. news
media, and multiple professional publications
US News

Internet

Multiple interviews on web sites–Celebrity Café, Amazon.com,
Column for Parenting Today’s Teen
(www.parentingteens.com)
Column for Salon Online Magazine “Dear Buzzed” (www.salon.com)

Selected Public Speaking Appearances--1998-2011

Public Education agencies

United States Department of Education–Drug Abuse Prevention in Higher
Education
Georgia State PTA
North Carolina State PTA
North Carolina State Department of Education
Rye, NY Board of Education
Chapel Hill, NC Public Schools
Durham, NC Public Schools
MADD National Youth Conference
Communities of Concern
Association of Health Journalists
Duval County, FL Public Schools
National Highway Traffic Safety Administration (VT, MA, AL)
North Carolina Youth Summit
Action for Children
American Academy of Pediatrics (Bay Area)
Communities in Schools of North Carolina
South Carolina Annual Drugs of Abuse Conference
Lifesavers National Conference

Drug Education and Treatment Professionals

United States Department of Education
Florida Alcohol and Drug Abuse Association
North Carolina School Health Professionals
North Carolina Nurses Association
Student Assistance Services, Westchester County, NY

University of Nevada Reno
Eastern AHEC for North Carolina
Wisconsin Impaired Driving Institute
Alabama Governor's Conference on Underage Drinking
Alabama Parole Officers
Alabama Mental Health Association
American Academy of Pediatrics (Bay Area)
School of Nursing, Georgetown University
New Canaan Community Coalition

UNC School of Government

Multiple appearances to present Training for Judges, Lawyers and Court Administrators about the brain, effects of drugs, and unique brain development and drug issues in adolescence

Representative list of schools

Charlotte Country Day, Charlotte NC
Forsythe Country Day, Winston Salem NC
Ardsley High School, Ardsley NY
Rye High School, Rye NY
St. Ignatius College Preparatory Academy, San Francisco
University School of Milwaukee, Milwaukee, WI
Kincaid School, Houston, TX
Branson School, San Francisco
Friends School, Wilmington, DE
Sanderson High School, Raleigh, NC
Avon Old Farms School, Avon, CT
Sanderson High School, Raleigh

Brief Bio:

Dr. Wilkie Wilson is a Research Professor of Prevention Science at Duke University, an Emeritus Senior Research Scientist for the Department of Veterans Affairs, and the Director of the DukeLEARN Program at Duke. DukeLEARN is a newly approved Duke program to educate our society, especially our children about the brain—how to use it effectively and how to keep it healthy. As a laboratory scientist, Dr. Wilson is a

neuropharmacologist who studies the ways in which drugs interact with the central nervous system, with a particular interest in how the brain acquires and stores information. An author of numerous scientific publications, book chapters and books, he has served as the supervisor of a number of young scientists: 12 young scientists as they obtained the Ph.D. or M.D./Ph.D. and more than 20 postdoctoral fellows. He is co-author of three books for the general public. *Buzzed: The Straight Facts About The Most Used and Abused Drugs From Alcohol to Ecstasy*, *Pumped: Straight facts for athletes about drugs, supplements and training*, and *Just Say Know: Talking with kids about drugs and alcohol*. For the past ten years, Dr. Wilson has worked to make brain science accessible to young people and adults in a variety of venues. He is a frequent speaker at schools for young people and parent groups. He provides continuing education for educators, counselors, and members of the criminal justice community. He also advocates for brain health through numerous media appearances on network and cable television as well as on numerous radio programs.