

CURRICULUM VITAE

Name: John W. Gibbs, III M.D. Ph.D.

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Primary appointment: East Carolina Neurology, Inc, 2280 Hemby Lane, Greenville, NC 27834

Primary academic department: Clinical Assistant Professor of Medicine, Brody School of Medicine, East Carolina University, Greenville, NC

Medical Licensure: Virginia License #0101-102722

Date of License issued: 7/15/99 (active)

North Carolina Medical License #2003-01117

Date of License issued: 9/03 (active)

Specialty certifications and dates:

Diplomate of the American Board of Psychiatry and Neurology, License #52464

Diplomate of the American Board of Clinical Neurophysiology

Diplomate of the American Academy of Sleep Medicine, #2684

Diplomate of the American Board of Psychiatry and Neurology with added qualification in clinical neurophysiology, License #1497

Diplomate of the American Board of Psychiatry and Neurology with added qualification in sleep medicine

Date of birth: December 30, 1968; **Place:** Richmond, Va. USA

Citizen of: USA

| Education | Institution | Dates | Degree |
|------------------|---|--------------|---------------|
| High School | The Collegiate Schools (Richmond, Va) | 9/83-6/87 | Diploma |
| College | The University of Virginia (Charlottesville, Va) | 9/87-12/90 | B.A. Biology |
| Med./Grad. Edu. | Medical College of Virginia of | | |

Virginia Commonwealth Univ. 9/91-6/98 M.D./Ph.D.
(Richmond, Va)

Scholarly societies: Golden Key Honor Society

Professional training and academic career

| <u>Institution</u> | <u>Position/Title</u> | <u>Dates</u> |
|---|---|--------------|
| Medical College of Virginia of Virginia Commonwealth Univ. (Richmond, Va) | Medicine Intern | 7/98-6/99 |
| Duke University Med. Cntr. (Durham, NC) | Neurology Resident | 7/99-6/01 |
| Duke University Med. Cntr. (Durham, NC) | Neurology Chief Resident | 7/01-6/02 |
| Duke University Med. Cntr. (Durham, NC) | Clinical Neurophysiology Fellow (Epilepsy/Evoked Potentials/EEG/Sleep Medicine) | 7/02-6/04 |
| East Carolina Univ. Brody School of Med. (Greenville, NC) | Clinical Assist. Prof. of Med. | 7/04-pres. |

Professional Societies

American Academy of Sleep Medicine
Pitt County Medical Society
American Academy of Neurology

Honors

Intermediate Honors, University of Virginia, 1989
MCV Foundation Scholarship, 1991-1993
Predoctoral Fellowship, Medical College of Virginia, Department of Anatomy, 1993-1997
Forbes Day Finalist, 1995; 1997
Central Virginia Neuroscience Travel Award, 1996
Eastern Student Research Forum, Miami, Florida. 2nd place, Graduate division, 1997
Riece Award for Neuroscience for top student in neuroscience, Medical College of Virginia, 1997
Invited speaker, 8th Association Canaux Ioniques, La Londe les Maures, France, 1997
Pfizer Epilepsy Fellow Travel Award, 2000

American Academy of Neurology Resident Travel Award, 2002
Ortho-McNeil Top Scholar Program, 2002
Epilepsy Foundation of America Research Training Fellowship (EW Lothman Award for highest scoring grant), 2003-2004

Best Doctors in America, Neurology and Sleep Medicine, 2008-2011

Site Principal Investigator

1. A multicenter, double-blind, randomized, placebo-controlled, parallel-group, trial to investigate the efficacy and safety of SPM927 (400 mg/day and 600 mg/day) as adjunctive therapy in subjects with partial seizures with or without secondary generalization (Schwarz Pharma)
2. An open-label extension trial to determine safety and efficacy of long-term oral SPM927 in patients with partial seizures (Schwarz Pharma)

Site Sub-investigator

1. A 4-week, randomized, double-blind, cohort study to evaluate the safety and tolerability of converting from Ropinirole immediate release (IR) to Ropinirole extended release (XR) formulation in patients with restless legs syndrome (RLS), protocol #ROX101468/805 (GlaxoSmithKline)
2. A 52-week, open-label study to assess the long-term safety of Ropinirole extended release (XR) in patients with restless legs syndrome (RLS), protocol #101468/206 (GlaxoSmithKline)

Journal Articles

1. Oh, K.-S., Lee, C.-J., **Gibbs, J.W.**, and Coulter, D.A. (1995) Postnatal development of GABA_A receptor function in somatosensory thalamus and cortex: Whole-cell voltage-clamp recordings in acutely isolated rat neurons. *Journal of Neuroscience*, 15, 1341-1351.
2. Zhang, Y.-F., **Gibbs III, J.W.**, and Coulter, D.A. (1996) Anticonvulsant drug effects on spontaneous thalamocortical rhythms *in vitro*: Ethosuximide, trimethadione, and dimethadione. *Epilepsy Research*, 23, 15-36.
3. Zhang, Y.-F., **Gibbs III, J.W.**, and Coulter, D.A. (1996) Anticonvulsant drug effects on spontaneous thalamocortical rhythms *in vitro*: Valproic acid, methyl-phenyl succinimide, and clonazepam. *Epilepsy Research*, 23, 37-53.
4. **Gibbs III, J.W.**, Zhang, Y.-F., Kao, C.-Q., Holloway, K.L., Oh, K.-S., and Coulter,

D.A. (1996) Characterization of GABA_A receptor function in human temporal cortical neurons. *Journal of Neurophysiology*, 75, 1458-1471.

5. Gibbs III, J.W., Berkow Schroder, G., and Coulter, D.A. (1996) GABA_A receptor function in developing rat thalamic reticular neurons: Whole-cell recordings of GABA-mediated currents and modulation by benzodiazepines. *Journal of Neurophysiology*, 76, 2568-2579.

6. Gibbs III, J.W., Shumate, M., and Coulter, D.A. (1997) Differential epilepsy-associated alterations in postsynaptic GABA_A receptor function in dentate granule and CA1 neurons. *Journal of Neurophysiology*, 77, 1924-1938.

7. Gibbs III, J.W., Sombati, S., DeLorenzo, R.J., and Coulter, D.A. (1997) Physiological and pharmacological alterations in postsynaptic GABA_A receptor function in a hippocampal culture model of chronic spontaneous seizures. *Journal of Neurophysiology*, 77, 2139-2152.

8. Gibbs III, J.W., Morton, L., Amaker, B., Ward, J.D., Holloway, K.L., and Coulter, D.A. (1998) Physiological analysis of Rasmussen's encephalitis: Patch clamp recordings of altered inhibitory neurotransmitter function in resected frontal cortical tissue. *Epilepsy Research*, 31, 13-27.

9. Shumate, M.D., Lin, D.D., **Gibbs III, J.W.**, Holloway, K.L., and Coulter, D.A. (1998) Physiological properties of GABA_A receptors in epileptic human dentate granule cells: Comparison to epileptic and control rat. *Epilepsy Research*, 32, 114-28.

10. Gibbs III, J.W., Sombati, S., DeLorenzo, R.J., and Coulter, D.A. (2000) Cellular actions of topiramate: Blockade of kainate-evoked inward currents in cultured hippocampal neurons. *Epilepsia*, 41 (S1), S10-16.

11. Gibbs III, J.W., Zhang, Y.-F., Shumate, M., and Coulter, D.A. (2000) Regionally selective blockade of GABAergic inhibition by zinc in the thalamocortical system: Functional significance. *Journal of Neurophysiology*, 83, 1510-1521.

12. Gibbs III, J.W., Zhang, Y.-F., and Coulter, D.A. (2002) Anticonvulsant actions of lamotrigine on spontaneous thalamocortical rhythms, *Epilepsia*, 43, 342-349.

13. Gibbs III, J.W. and Husain, A.M. (2002) Epilepsy associated with lupus anticoagulant. *Seizure*, 11, 207-209.

14. Gibbs III, J.W. and Radtke, R.A. (2002) Excessive daytime somnolence and increased REM pressure in myotonic dystrophy. *Sleep*, 25, 672-675.

15. Gibbs III, J.W., Piantadosi, C.P., and Massey, E.W. (2002) Internal carotid artery

dissection in stroke from SCUBA diving: a case report. *Undersea and Hyperbaric Medicine*, 29, 167-71.

16. Bedlack, R.S., Edelman, D., **Gibbs III, J.W.**, Kelling, D., Strittmatter, W., Saunders, A.M., and Morgenlander, J. (2003) Apolipoprotein E genotype is a risk factor for neuropathy severity in diabetic patients. *Neurology*, 25, 1022-1024.

Book Chapters

1. Gibbs III, J.W. and McNamara, J.O. (2006) The Epilepsies: Phenotypes and Mechanisms, Chapter 37 in *Basic Neurochemistry*. Eds. Siegel, G.J., Albers, R.W., Brady, S. and Price, D.L., 629-638.

2. Gibbs III, J.W. and McNamara, J.O. (2006) Immune Treatment of Rasmussen's Encephalitis, Chapter , in *Epilepsy Surgery: Principles and Controversies*. Eds. Miller, J.W. and Silbergeld, D.L., 161-165.

Abstracts

1. Gibbs III, J.W. and Coulter, D.A. (1994) Metabotropic glutamate receptor-mediated modulation of calcium currents in rat thalamic neurons. *Society for Neuroscience Abstracts*, 20, 904.

2. Coulter, D.A., Oh, K.-S, Lee, C.-J., and **Gibbs, J.W.** (1994) Postnatal development of GABA receptor function in somatosensory thalamus and cortex. *Epilepsia* (American Epilepsy Society Abstracts), 35 (S8), S85.

3. Zhang, Y.-F., **Gibbs III, J.W.**, and Coulter, D.A. (1995) Anticonvulsant drug effects on spontaneous thalamocortical rhythms *in vitro*. *Epilepsia* (American Epilepsy Society Abstracts), 36 (S4), S17.

4. Severt, L., **Gibbs III, J.W.**, Coulter, D.A., Sombati, S., and DeLorenzo, R.J. (1995) Topiramate selectively blocks kainate currents in cultured hippocampal neurons. *Epilepsia* (American Epilepsy Society Abstracts), 36 (S4), S38.

5. Gibbs III, J.W., Zhang, Y.-F., Kao, C.-Q., Holloway, K.L., Oh, K.-S., and Coulter, D.A. (1995) Functional characterization of GABA_A receptor properties in human temporal cortical neurons. *Epilepsia* (American Epilepsy Society Abstracts), 36 (S4), S36.

6. Coulter, D.A. and **Gibbs III, J.W.** (1995) Postnatal development of GABA_A receptor function in the thalamocortical system: Zinc and benzodiazepine sensitivity of GABAergic responses in rat thalamic and cortical neurons. *Society for Neuroscience Abstracts*, 21, 113.

7. **Gibbs III, J.W.** and Coulter, D.A. (1995) Postnatal development of benzodiazepine modulation of GABA_A receptor function in thalamic reticular neurons. *Society for Neuroscience Abstracts*, 21, 113.
8. Blair, R., Sombati, S., Churn, S.B., **Gibbs, J.**, Jakoi, E., Coulter, D.A., and DeLorenzo, R.J. (1996) Decreased GABA_A receptor subunit expression in association with the induction of epileptogenesis in an in vitro model of epilepsy. *American Academy of Neurology*, A357-358.
9. **Gibbs III, J.W.**, Zhang, Y.-F., Shumate, M., and Coulter, D.A. (1996) Regionally selective blockade of GABAergic inhibition by zinc in the thalamocortical system: Functional significance. *Society for Neuroscience Abstracts*, 22, 104.
10. **Gibbs III, J.W.**, Zhang, Y.-F., Kao, C.-Q., Morton, L., and Coulter, D.A. (1996) Physiological analysis of Rasmussen's encephalitis: Patch clamp recordings of altered inhibitory neurotransmitter function in resected frontal cortical tissue. *Epilepsia* (American Epilepsy Society Abstracts), 37 (S5), S79.
11. Coulter, D.A., **Gibbs III, J.W.**, and Shumate, M. (1996) Opposing epilepsy-associated alterations in GABA_A function in dentate gyrus and CA1 neurons. *Epilepsia* (American Epilepsy Society Abstracts), 37 (S5), S80.
12. **Gibbs III, J.W.**, Sombati, S., DeLorenzo, R.J., and Coulter, D.A. (1997) Epileptogenesis-associated alterations in GABA_Aergic efficacy in a hippocampal culture model of chronic spontaneous seizures. *Epilepsia* (American Epilepsy Society Abstracts), 38 (S8), S8-9.
13. Lin, D.D., Shumate, M.D., **Gibbs III, J.W.**, Holloway, K.L., and Coulter, D.A. (1997) GABA_Aergic function of epileptic human dentate granule cells: Comparison with GABA alterations evident in a rat model of temporal lobe epilepsy. *Epilepsia* (American Epilepsy Society Abstracts), 38 (S8), S9.
14. Shumate, M.D., Rikhter, T.Y., Lin, D.D., **Gibbs III, J.W.**, and Coulter, D.A. (1998) Temporal lobe epilepsy-associated alterations in hippocampal dentate granule cell GABA_A receptors precede the onset of recurrent spontaneous seizures. *Epilepsia* (American Epilepsy Society Abstracts), 39 (S6), S61.
15. Morris, T.A., Blair, R.E., Sombati, S., Jakoi, E.R., Churn, S.B., Severt, L., **Gibbs III, J.W.**, Coulter, D.A., and DeLorenzo, R.L. (1999) Decreased GABA_A receptor function and expression in an in vitro hippocampal culture model of spontaneous recurrent seizures. *Epilepsia* (American Epilepsy Society Abstracts) 40 (S7), S14.
16. **Gibbs III, J.W.** and Husain, A.M. (2000) Epilepsy associated with lupus anticoagulant. *Epilepsia* (American Epilepsy Society Abstracts), 41 (S7), S117.

17. Gibbs III, J.W. and Radtke, R.A. (2001) Excessive daytime somnolence and increased REM pressure in myotonic dystrophy. *Sleep* (American Academy of Sleep Medicine), 24, A37-A38.

18. Gibbs III, J.W., Radtke, R.A., Vanlandingham, K.E., and Husain, A.M. (2002) Mesial temporal sclerosis and outcome after anterior temporal lobectomy. *Epilepsia* (American Epilepsy Society Abstracts), 43 (S7) 323-324.

19. Bedlack, R.S., Edelman, D., **Gibbs III, J.W.**, Kelling, D., Strittmatter, W., and Morgenlander, J. (2002). Apolipoprotein E genotype is a risk factor for diabetic neuropathy. *American Neurological Association*.

Major Presentations

1. PhD Thesis, The role of GABAergic inhibition in the modulation of thalamocortical rhythms, Medical College of Virginia, 1997.

2. Opposing epilepsy-associated alterations in GABA_A function in dentate gyrus and CA1 neurons, American Epilepsy Society Meeting (San Francisco), 1996.

3. Physiological analysis of Rasmussen's encephalitis: Patch clamp recordings of altered inhibitory neurotransmitter function in resected frontal cortical tissue, American Epilepsy Society Meeting (San Francisco), 1996.

4. Cellular actions of topiramate: Blockade of kainate-evoked inward currents in cultured hippocampal neurons, Medical College of Virginia, Neurology Grand Rounds, 1997.

5. Excessive daytime somnolence and increased REM pressure in myotonic dystrophy, Duke University Medical Center, Neurology Grand Rounds, 2002.

6. Excessive daytime somnolence and increased REM pressure in myotonic dystrophy, University of North Carolina School of Medicine, Neurology Grand Rounds, 2004.

7. Epilepsy and women, Brody School of Medicine, East Carolina University, Medicine Grand Rounds, 2004.

8. How to interpret a sleep report and common sleep disorders, Neurology for the primary care physician, 2005