

CURRICULUM VITAE

Name: **CARL L. FAINGOLD** Office Telephone: (217) 545-2185
Southern Illinois University
School of Medicine Date of Birth: February 1, 1943
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Springfield, Illinois 62794-9629 (FAX 217 545-0145)
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Education: B.S. (Pharmacy), 1965, University of Illinois, Chicago, Illinois
Ph.D. (Pharmacology), 1970, Northwestern University, Chicago, IL

Societies: American Association for Advancement of Science
American College of Clinical Pharmacology
American Epilepsy Society
American Society for Clinical Pharmacology and Therapeutics
American Society for Pharmacology and Experimental Therapeutics
Association for Research in Otolaryngology
International Association of Medical Science Educators
International Neural Network Society
New York Academy of Sciences
Research Society on Alcoholism
Rho Pi Phi
Sigma Xi
Society for Neuroscience
International Behavioral and Genetics Society

Honors: State of Illinois Scholarship: Cook County - 1960-1964
State of Illinois Scholarship: General Assembly - 1965
Rho Pi Phi Scholarship - 1965
NIH. Traineeship in Pharmacology: 1965-1970
State of Missouri Post-doctoral Fellowship in Neuropharmacology -
1970-1972
Wellcome Research Travel Grant - 1984 (supporting research at the
Univ. of London, Institute of Psychiatry, Department of Neurology)
Member United States Pharmacopeia (USP) Convention (9/4/2008-
current)
Excellence Through Commitment University-Level Outstanding Scholar
Award (2009)

Experience: Distinguished Professor of Pharmacology, Southern Illinois University
School of Medicine, Springfield, Illinois, 2009-Present

Professor and Chairman Department of Pharmacology, Southern Illinois
University School of Medicine, Springfield, Illinois, 1995-Present

Professor of Pharmacology, Southern Illinois University School of Medicine, Springfield, Illinois, 1987-2009

Professor of Neurology, Southern Illinois University School of Medicine, Springfield, Illinois, 1993-Present

Acting Associate Dean for Research, Southern Illinois University, School of Medicine, Springfield, Illinois, 1992

Associate Professor of Pharmacology, Southern Illinois University School of Medicine, Springfield, Illinois, 1976-1987

Visiting Scientist (Academic Visitor), Department of Neurology, Institute of Psychiatry, University of London, London, England, 1984

Acting Chairman, Department of Pharmacology, Southern Illinois University Medical School, Springfield, Illinois, 1981-1983

Associate Professor of Physiology, Southern Illinois University, 1975-1979

Assistant Professor of Pharmacology, Southern Illinois University Medical School, Springfield, Illinois, 1972-1976

Post-doctoral Fellow in Neuropharmacology, University of Missouri Institute of Psychiatry (with Dr. A.S. Marrazzi), 1970-1972

Teaching Experience:

Medical Pharmacology, 1973-present (Coordinator, 1980, 1992)
Medical Neuroscience, 1973-1985
Pharmacology 550- Advanced Pharmacology (1986-)
Pharmacology 551- Techniques in Pharmacology (1986-)
Pharmacology 574- Advanced Neuropharmacology (1986-)
Pharmacology 555- Advanced Cardiovascular Pharmacology (1986)
Pharmacology 565- Toxicology (1998)
Physiology 420A - Principles of Pharmacology (Coordinator-1977)
Physiology 550A and B - Advanced Pharmacology (1983)
Physiology 551 - Techniques in Pharmacology (1983)
Physiology 560 - Techniques in Physiology
Physiology 570 - Advanced Topics in Pharmacology (1975)
Physiology 574 - Neuropharmacology (Co-Coordinator, 1983, 1985)
Physiology 590-1 - Reading Course (1985)
Dental Hygienist Pharmacology, 1967-1970 (Northwestern)

Manuscript Review:

Anatomy and Embryology
Auditory Neuroscience
Behavioral and Neural Biology

Brain Research
Canadian Journal of Physiology and Pharmacology
Electroencephalography and Clinical Neurophysiology
Epilepsia
Epilepsy and Behavior
Epilepsy Research
Experimental Neurology
Hearing Research
International Journal of Developmental Neuroscience
Journal of Neurological Sciences
Journal of Neurophysiology
Journal of Neuroscience
Journal of Pharmacology and Experimental Therapeutics
Life Sciences
Neuropharmacology
Neuroscience Letters
Proceedings of the National Academy of Science
Teaching and Learning in Medicine

Grant Review: National Institutes of Health (Ad hoc NLS-2- 1992, 1994)
NEUB-1, 1994
National Science Foundation
American Heart Association, Illinois Affiliate

Committees: Springfield Committee for Research in Human Subjects (1973-1976),
Founding Member
School of Medicine Central Research Committee (1976-1978), (1980-1981)
Founding Member and Chairman (1980-1981)
School of Medicine Grievance Committee (1975-1980)
Founding Member (1986-1989, elected Chairman)
Search Committee for Chairman of Department of Medical Sciences (1977-1978)
School of Medicine Faculty Council (elected, 1978-1982), Founding Member (1980-Secretary), 1993-1995
LincolInland Epilepsy Association (Board Member, 1979-1982)
School of Medicine, Dept. of Pediatrics Review Committee (1981)
School of Medicine Student Progress Committee (1981)
School of Medicine Academic Executive Committee (1981-1983)
School of Medicine Executive Committee (1981-1983)
School of Medicine Research Policy Advisory Committee (1985-1995),
Chair, 1991-1995
School of Medicine Tenure and Promotion Committee (1987-1992)
Department of Pharmacology Graduate Program Committee (1986, Chairman)
LincolInland Epilepsy Association (Professional Advisory Board, 1983-1990)

School of Medicine Sophomore Curriculum Committee (1991-1992)
School of Medicine Dean Search Committee (1992-1993)
School of Medicine Committee on Governance (1992-1994)
School of Medicine Executive Committee (1994-present)

**Graduate
Student /
Research
Mentor:**

James D. Stittsworth, Jr. (Master's Thesis, "The Neurophysiological and Behavioral Effects of Phenytoin: Administration in the Cat," 1979)

Mark A. Travis (Master's Thesis, "Comparison of Response Properties of the Inferior Colliculus Neurons in Genetically Epilepsy Prone and Normal Sprague-Dawley Rats," 1983)

Greta Gehlbach (Master's Thesis, "Audiogenic Seizures and Effects of GABA and Benzodiazepines on Inferior Colliculus Neurons in the Genetically Epilepsy Prone Rat," 1984)

Awais Riaz (Doctoral Dissertation, "Role of Alterations in Amino Acid Neurotransmission and Neuronal Response Patterns in Audiogenic Seizures During Ethanol Withdrawal", 1994)

Dareea Patrick Paiva (Master's Thesis, "The Role of Anticonvulsant Drugs and Norepinephrine Depletion on the Audiogenic Seizures of Neonatally Hypothyroid Rats", 1994)

Dipanjana Chakravarty (Doctoral Dissertation, "Role of External Nucleus of the Inferior Colliculus in the Audiogenic Seizure Network", 1995)

Yang Li (Doctoral Dissertation, "In Vitro Electrophysiological Properties of Inferior Colliculus Cortex Neurons in Genetically Epilepsy Rats and Rats Undergoing Ethanol Withdrawal", 1997)

Hua-Jun Feng (Doctoral Dissertation, "Repetitive Epileptogenic Challenge: Neurophysiology and Neuropharmacology in the Amygdala", 2001)

Manish Raisinghani (Doctoral Dissertation, "Defining the Neuronal Network for Clonic Seizures: Changes in Network sites and Mechanisms Induced by Audiogenic Seizure Repetition", 2003)

Srinivasan Tupal (Doctoral Dissertation, "Molecular Substrates and Neuronal Network Subserving Audiogenic Kindling in Genetically Epilepsy-Prone Rats") 2009

Vijaya Samineni (Doctoral Dissertation, "The role of periaqueductal gray in modulation of acute and chronic pain: Actions of drugs with analgesic properties on periaqueductal gray neuronal network" (2012)

Srinivasa Kommajosyula- Neuroactive agents-mediated changes in neuronal network activity controls susceptibility to sudden unexpected death in epilepsy (SUDEP) (2017)

Prosper N'Gouemo (Postdoctoral Fellow) 1993-1997

Cheng Long (Postdoctoral Fellow) 1999-2002

Li Yang (Postdoctoral Fellow) 1998-2004

Srinivasan Tupal (Postdoctoral Fellow) current 2017-

Research Interests: Neuronal Networks and Behavior
Therapeutics of Brain Disorders
Convulsive Seizure Mechanisms
Ethanol Dependence and Withdrawal
Anticonvulsant Pharmacology
Reticular Formation Physiology and Pharmacology
Auditory Physiology and Pharmacology

Dissertation: A Power Spectral Density Evaluation of the Effects of the Antihistaminics and Pentylenetetrazol on the EEG of the Cat

PUBLICATIONS:

1. Faingold, C.L. and C.A. Berry: Effects of antihistaminic agents upon the electrographic activity of the cat brain: A power spectral density study. *Neuropharmacology*, 11:491-498, 1972. PMID 5047940
2. Faingold, C.L. and C.A. Berry: A Comparison of the EEG Effects of the Potent Antihistaminic (dl-Chlorpheniramine) with a Less Potent Isomer (p-Chlorpheniramine). *Archiv. int. Pharmacodyn.*, 199:213-218, 1972. PMID: 4403616
3. Faingold, C.L. and C.A. Berry: Anticonvulsant Modification of Tripeleminamine Effects on the Electrographic Activity of the Cat Brain. *Neuropharmacology*, 12:383-390, 1973. PMID: 4703879
4. Faingold, C.L. and C.A. Berry: Quantitative Evaluation of the Pentylenetetrazol Anticonvulsant Interaction on the EEG of the Cat. *Europ. J. Pharmacology*, 24:381-386, 1973. PMID: 476699
5. Faingold, C.L.: Convulsant-induced Enhancement of Sensory Evoked Responses in Non-Primary Reticular Pathways. *Neuropharmacology*, 16:73-81, 1977. PMID: 840374
6. Faingold, C.L. and D.M. Caspary: Changes in Reticular Formation Unit Response Patterns Associated with Pentylenetetrazol-Induced Enhancement of Sensory Evoked Responses. *Neuropharmacology*, 16:143-147, 1977. PMID: 840372

7. Faingold, C.L.: Pentylenetetrazol-induced Enhancement of Responses of Mesencephalic Reticular Neurons to Visual Stimuli. *Brain Research*, 150:418-423, 1978. PMID: 678980
8. Faingold, C.L.: Brainstem Reticular Formation Mechanisms Subservicing Generalized Seizures: Effects of Convulsants and Anticonvulsants on Sensory-Evoked Responses. *Prog. Neuro-Psychopharmacol.*, 2:401-422, 1978.
9. Faingold, C.L. and D.M. Caspary: Frequency Following Responses in Primary Auditory and Reticular Formation Structures. *Electroenceph. clin. Neurophysiol.*, 47:12-20, 1979. PMID: 88357
10. Caspary, D.M., D.C. Havey and C.L. Faingold: Effects of Microiontophoretically Applied Glycine and GABA on Neuronal Response Patterns in the Cochlear Nuclei. *Brain Research*, 172:179-185, 1979. PMID: 466463
11. Faingold, C.L.: Enhancement of Mesencephalic Reticular Neuronal Responses to Sensory Stimuli with Pentylenetetrazol. *Neuropharmacology*, 19:53-62, 1980. PMID: 7360332
12. Faingold, C.L. and J.D. Stittsworth, Jr.: Comparative Effects of Pentylenetetrazol on the Sensory Responsiveness of Lateral Geniculate and Reticular Formation Neurons. *Electroenceph. clin. Neurophysiol.*, 49:168-172, 1980. PMID: 6159159
13. Faingold, C.L.: Strychnine Effects on the Sensory Response Patterns of Reticular Formation Neurons. *Electroenceph. clin. Neurophysiol.*, 50:102-111, 1980. PMID: 6159177
14. Faingold, C.L. and J.D. Stittsworth, Jr.: Phenytoin: Plasma Levels and Behavioral Changes Associated with Suppression of Auditory Evoked Potentials in the Cat. *Neuropharmacology*, 20:445-449, 1981. PMID: 7195477
15. Caspary, D.M., D.C. Havey and C.L. Faingold: Glutamate and Aspartate: Alteration of Thresholds and Response Patterns of Auditory Neurons. *Hearing Research*, 4:325-333, 1981. PMID: 6267001
16. Faingold, C.L., W.E. Hoffmann and J.D. Stittsworth: Pentylenetetrazol-Induced Enhancement of Reticular Formation Auditory Evoked Potentials and Acoustic Startle Responses in the Cat. *Neuropharmacology*, 20:787-789, 1981. PMID: 7279148
17. Faingold, C.L. and W.E. Hoffmann: Effects of Bemegride on the Sensory Responses of Neurons in the Hippocampus and Brainstem Reticular Formation. *Electroenceph. clin. Neurophysiol.*, 52:316-327, 1981. PMID: 6169508

18. Faingold, C.L., W.E. Hoffmann and D.M. Caspary: Bicuculline-Induced Enhancement of Sensory Responses and Cross-Correlations Between Reticular Formation and Pericruciate Cortex Neurons. *Electroenceph. clin. Neurophysiol.*, 55:301-313, 1983. PMID: 6186462
19. Faingold, C.L., W.E. Hoffmann and D.M. Caspary: On the Site of Pentylenetetrazol-Induced Enhancement of Auditory Responses of the Reticular Formation: Localized Cooling and Electrical Stimulation Studies. *Neuropharmacology*, 22:961-970, 1983. PMID 6621826
20. Caspary, D.M., D.C. Havey and C.L. Faingold: Effects of Acetylcholine on Tone-Evoked Responses in the Dorsal Cochlear Nucleus. *Exp. Neurol.*, 82:491-498, 1983. PMID 6628633
21. Faingold, C.L., W.E. Hoffmann and D.M. Caspary: Effects of Iontophoretic Application of Convulsants on the Sensory Responses of Neurons in the Brain-Stem Reticular Formation. *Electroenceph. clin. Neurophysiol.*, 58:55-64, 1984. PMID: 6203703
22. Caspary, D.M., L. Rybak and C.L. Faingold: Baclofen Reduces Tone-Evoked and Spontaneous Activity of Cochlear Nucleus Neurons. *Hearing Research* 13:113-122, 1984. PMID: 6325378
23. Faingold, C.L., W.E. Hoffmann and D.M. Caspary: Mechanisms of Sensory Seizures: Brain-Stem Neuronal Response Changes and Convulsant Drugs. *Fed. Proc.*, 44:2436- 2441, 1985. PMID: 3886431
24. Faingold, C.L.: Epilepsy: Brain-Stem Seizure Mechanisms and Drug Action: An Overview. *Fed. Proc.*, 44:2412-2413, 1985. PMID: 3987917
25. Faingold, C.L., W.E. Hoffmann and D.M. Caspary: Comparative Effects of Convulsant Drugs on the Sensory Responses of Neurons in the Amygdala and Reticular Formation. *Neuropharmacology*, 12:1221-1230, 1985. PMID: 4094658
26. Faingold, C.L., M.A. Travis, G. Gehlbach, W.E. Hoffmann, P.C. Jobe, H.E. Laird II, and D.M. Caspary: Neuronal response abnormalities in the inferior colliculus of the genetically epilepsy-prone rat. *Electroenceph. clin. Neurophysiol.*, 63:296-305, 1986. PMID: 2419087
27. Millan, M.H., B.S. Meldrum and C.L. Faingold: Induction of audiogenic seizure susceptibility by focal infusion of excitant amino acid or bicuculline into the inferior colliculus of normal rats. *Exp. Neurol.*, 91:634-639, 1986. PMID: 3512285
28. Chapman, A.G., C.L. Faingold, G.P. Hart, Bowker, H.M. and B.S. Meldrum: Brain regional amino acid levels in seizure susceptible rats: changes related to sound-induced seizures. *Neurochem. International*, 8:273-279, 1986.

29. Faingold, C.L., G. Gehlbach and D.M. Caspary: Decreased effectiveness of GABA-mediated inhibition in the inferior colliculus of the genetically epilepsy-prone rat. *Exp. Neurol.*, 93:145-159, 1986. PMID: 3732456
30. Faingold, C.L., G. Gehlbach, M.A. Travis and D.M. Caspary: Inferior colliculus neuronal response abnormalities in genetically epilepsy-prone rats: Evidence for a deficit of inhibition. *Life Sci.*, 39:869-878, 1986. PMID: 3747711
31. Faingold, C.L. and R.A. Browning: Mechanisms of anticonvulsant drug action. I. Drugs primarily used for generalized tonic-clonic and partial epilepsies. *Europ. J. Pediat.*, 146:2-7, 1987. PMID: 3107992
32. Faingold, C.L. and R.A. Browning: Mechanisms of anticonvulsant drug action. II. Drugs primarily used for absence epilepsy. *Europ. J. Pediat.*, 146:8-14, 1987. PMID 3107994
33. Faingold, C.L.: The role of the brain stem in generalized epileptic seizures. *Metabolic Brain Disease*, 2:81-112, 1987. PMID 3333172
34. Caspary, D.M., K.E. Pazara, M. Kossl and C.L. Faingold: Strychnine alters the fusiform cell output from the dorsal cochlear nucleus. *Brain Research*, 417:273-282, 1987. PMID: 3651816
35. Faingold, C.L., M.H. Millan, C.A. Boersma and B.S. Meldrum: Excitant amino acids and audiogenic seizures in the genetically epilepsy-prone rat: I. Afferent seizure initiation pathway. *Exp. Neurol.*, 99:678-686, 1988. PMID: 33342850
36. Millan, M.H., B.S. Meldrum, C.A. Boersma and C.L. Faingold: Excitant amino acids and audiogenic seizures in the genetically epilepsy prone rat: II. Efferent seizure propagating pathway. *Exp. Neurol.*, 99:687-698, 1988. PMID: 3342851
37. Faingold, C.L.: The genetically epilepsy-prone rat. *Gen. Pharmacol.*, 19:331-338, 1988. PMID: 2901380
38. Faingold, C.L., M.H. Millan, C.A. Boersma Anderson and B.S. Meldrum: Induction of audiogenic seizures in normal and genetically epilepsy-prone rats following focal microinjection of an excitant amino acid into reticular formation and auditory nuclei. *Epilepsy Res.*, 3:199-205, 1989. PMID: 2659321
39. Caspary, D.M. and C.L. Faingold: Non-N-methyl-D-aspartate receptors may mediate ipsilateral excitation at lateral superior olivary synapses. *Brain Research*, 503:83-90, 1989. PMID: 2558777
40. Browning, R.A., M.L. Lanker and C.L. Faingold: Injections of noradrenergic and GABAergic agonists into the inferior colliculus: effects of on audiogenic seizures in genetically epilepsy-prone rats. *Epilepsy Research*, 4:119-125, 1989. PMID: 2792066

41. Faingold, C.L., G. Gehlbach and D.M. Caspary: On the role of GABA as an inhibitory neurotransmitter in inferior colliculus neurons: Iontophoretic studies. *Brain Research*, 500:302-312, 1989. PMID: 2605499
42. Faingold, C.L., W.E. Hoffmann, D.M. Caspary: Effects of excitant amino acids on acoustic responses of inferior colliculus neurons. *Hearing Research* 40:127-136, 1989. PMID: 2570054
43. Faingold, C.L., E.J. Walsh, J.K. Maxwell and M.E. Randall: Audiogenic seizure severity and hearing deficits in the genetically epilepsy-prone rat. *Exp. Neurol.*, 108:55-60, 1990. PMID: 2318288
44. Faingold, C.A. Boersma Anderson and D.M. Caspary: Involvement of GABA in acoustically-evoked inhibition in inferior colliculus neurons. *Hearing Research*, 52: 201-216, 1991. PMID: 2061208
45. Browning, R.A., Wang, C. and Faingold, C.L.: Effect of norepinephrine depletion on audiogenic-like seizures elicited by microinfusion of an excitant amino acid into the inferior colliculus of normal rats. *Exp. Neurol.* 112: 200-205, 1991. PMID: 1903710
46. Faingold C.L. and C.A. Boersma Anderson. Loss of intensity-induced inhibition in inferior colliculus neurons leads to audiogenic seizure susceptibility in behaving genetically epilepsy-prone rats. *Exp. Neurol.*, 113: 354-363, 1991. PMID: 1915725
47. Naritoku D.K., Mecozzi, L.B., Aiello, M.T., and Faingold, C.L., Repetition of audiogenic seizures in genetically epilepsy-prone rats induces cortical epileptiform activity and additional seizure behaviors *Exp. Neurol.* 115:317-324, 1992. PMID: 1537391
48. Faingold, C.L., Naritoku, D.K., Copley, C.A., Randall, M.E., Riaz, A., Boersma Anderson, C.A. and Arneric, S.P., Glutamate in the inferior colliculus plays a critical role in audiogenic seizure initiation *Epilepsy Res.* 13:95-105, 1992. PMID: 1361165
49. Faingold, C.L., Randall, M.E., Naritoku, D.K. and Boersma Anderson, C.A., Non-competitive and competitive NMDA antagonists exert anticonvulsant effects by actions on different sites within the neuronal network for audiogenic seizures *Exp. Neurol.* 119:198-204, 1993. PMID: 8432360
50. Faingold, C.L., Boersma Anderson, C.A and Randall, M.E., Stimulation or blockade of the dorsal nucleus of the lateral lemniscus alters binaural and tonic inhibition in contralateral inferior colliculus neurons, *Hearing Res.*, 69:98-106, 1993. PMID: 8226354
51. Reigel, C.E. and C.L. Faingold. Innately hearing impaired Sprague-Dawley rats exhibit audiogenic seizure susceptibility following monoamine depletion. *Proc. West. Pharmacol. Soc.* 36:267-271, 1993. PMID: 8378388

52. Faingold, C.L., Marcinczyk, M.J., Casebeer, D.J., Randall, M.E., Arneric, S.P. and Browning, R.A., GABA in the Inferior Colliculus Plays a Critical Role in Control of Audiogenic Seizures, *Brain Research* 640:40-47, 1994. PMID: 8004465
53. Faingold, C.L., Randall, M.E. and Boersma Anderson, C.A. Blockade of GABA Uptake with Tiagabine Inhibits Audiogenic Seizures and Reduces Neuronal Firing in the Inferior Colliculus of the Genetically Epilepsy-Prone Rat, *Exp. Neurol.* 126:225-232, 1994. PMID: 7925822
54. Riaz, A. and Faingold, C.L., Seizures during ethanol withdrawal are blocked by focal microinjection of excitant amino acid antagonists into the inferior colliculus and pontine reticular formation, *Alcoholism: Clinical and Experimental Research* 18:1456-1462, 1994. PMID: 7695044
55. Evans, M.S., Viola-McCabe, K.E., Caspary, D.M. and Faingold, C.L., Loss of synaptic inhibition during repetitive stimulation in genetically epilepsy-prone rats (GEPR), *Epilepsy Research*, 18:97-105, 1994. PMID: 7957041
56. Faingold, C.L., and Riaz, A., Increased responsiveness of pontine reticular formation neurons associated with audiogenic seizure susceptibility during ethanol withdrawal, *Brain Research* 663:69-76, 1994. PMID: 7850471
57. Li, Y., Evans, M.S. and Faingold, C.L., Inferior colliculus neuronal membrane and synaptic properties in genetically epilepsy-prone rats, *Brain Research* 660:232-240, 1994. PMID: 7820692
58. Faingold, C.L., and Riaz, A., Ethanol withdrawal induces increased firing in inferior colliculus neurons associated with audiogenic seizure susceptibility, *Exp. Neurol.* 132:91-98, 1995. PMID: 7720830
59. Faingold, C.L. and Randall, M.E, Pontine reticular formation neurons exhibit a premature and precipitous increase in acoustic responses prior to audiogenic seizures in genetically epilepsy-prone rats, *Brain Research* 704:218-226, 1995. PMID: 8788917
60. N'Gouemo, P. and Faingold, C.L., Repetitive audiogenic seizures cause an increased acoustic response in inferior colliculus neurons and additional convulsive behaviors in the genetically-epilepsy prone rat, *Brain Research*, 710:92-96, 1996. PMID: 8963682
61. Chakravarty, D.N. and Faingold, C.L. Increased responsiveness and failure of habituation in neurons of the external nucleus of inferior colliculus associated with audiogenic seizures in the genetically epilepsy-prone rat, *Experimental Neurology*, 141:280-286,1996. PMID: 8812161

62. N'Gouemo, P., Caspary, D.M. and Faingold, C.L., Decreased GABA effectiveness in inferior colliculus neurons during ethanol withdrawal in rats susceptible to audiogenic seizures, *Brain Research* 724: 200-204, 1996. PMID: 8828569
63. N'Gouemo, P. and Faingold, C.L., Periaqueductal gray neurons exhibit increased responsiveness associated with audiogenic seizures in the genetically epilepsy-prone rat. *Neuroscience* 84:619-625, 1998. PMID: 9539230
64. Chakravarty, D.N. and Faingold, C.L., Aberrant neuronal responsiveness in the genetically epilepsy-prone rat: Acoustic responses and interactions between the central and external nuclei of the inferior colliculus. *Brain Research* 761:263-270, 1997. PMID: 9252025
65. N'Gouemo, P. and Faingold, C.L., Audiogenic kindling increases neuronal responses to acoustic stimuli in neurons of the medial geniculate body of the genetically epilepsy-prone rat, *Brain Research* 761:217-224, 1997. PMID: 9252019
66. Chakravarty, D.N. and Faingold, C.L., Comparison of neuronal response patterns in the external and central nuclei of inferior colliculus during ethanol administration and ethanol withdrawal, *Brain Research* 783:102-108, 1998. PMID: 9479057
67. Li, Y., Evans, M.S. and Faingold, C.L., In vitro electrophysiology of neurons in subnuclei of rat inferior colliculus *Hearing Research*, 121:1-10, 1998. PMID: 9682803
68. Faingold, C.L., Locomotor behaviors in generalized convulsions are hierarchically driven from specific brain-stem nuclei in the network subserving audiogenic seizure, *Ann. New York Acad. Sci.* 860:566-569, 1998. PMID: 9928365
69. Faingold, C.L. and Casebeer, D.J. Modulation of the audiogenic seizure network by noradrenergic and glutamatergic receptors in the deep layers superior colliculus, *Brain Research*, 821:392-399, 1999.
70. Chakravarty, D.N. and Faingold, C.L. Differential roles in the neuronal network for audiogenic seizures are observed among the inferior colliculus subnuclei and the amygdala. *Experimental Neurology* 157:135-141, 1999. PMID: 10222116
71. N'Gouemo, P and Faingold, C.L. The periaqueductal gray is a critical site in the neuronal network for audiogenic seizures: modulation by GABA_A, NMDA and opioid receptors, *Epilepsy Research*, 1999 35:39-46, 1999. PMID: 10232793
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75. Feng, H-J. and Faingold, C.L. Modulation of audiogenic seizures by histamine and adenosine receptors in the inferior colliculus, *Experimental Neurology* 163:264-270, 2000. PMID: 11716572
76. Faingold, C.L., Li, Y. and Evans, M.S. Decreased GABA and increased glutamate receptor-mediated activity on inferior colliculus neurons *in vitro* are associated with susceptibility to ethanol withdrawal seizures, *Brain Research* 868:287-95, 2000.
77. Evans, M.S., Li, Y. and Faingold, C.L. Inferior colliculus intracellular response abnormalities *in vitro* associated with susceptibility to ethanol withdrawal seizures, *Alcoholism: Clinical and Experimental Research* 24:1180-1186, 2000.
78. Li Yang, Cheng Long and C.L. Faingold, Audiogenic seizure susceptibility is induced by termination of continuous infusion of GABA or an NMDA antagonist into the inferior colliculus, *Experimental Neurology*, 171:147-152, 2001. PMID: 11520129
79. Dunaway G.A, Faingold C.L., Development and implementation of a multidisciplinary sophomore medical curriculum: integration of pharmacology with basic and clinical science. *Pharmacologist* 43:83-90, 2001.
80. Li Yang, Cheng Long and Carl L. Faingold, Neurons in the deep layers of superior colliculus are a requisite component of the neuronal network for seizures during ethanol withdrawal, *Brain Research*, 920:134-141, 2001. PMID: 11716819
81. Feng H-J., Naritoku D.K., Randall, M.E., Faingold, C.L. Modulation of audiogenically kindled seizures by GABA-related mechanisms in the amygdala, *Experimental Neurology*, 172:477-481, 2001. PMID: 11716572
82. Feng, Hua-Jun and C.L. Faingold, Repeated generalized audiogenic seizures induce plastic changes on acoustically evoked neuronal firing in the amygdala, *Brain Research*, 932:61-69, 2002. PMID: 11911862
83. Feng, Hua-Jun and C.L. Faingold, Synaptic plasticity in the pathway from the medial geniculate body to the lateral amygdala is induced by seizure repetition, *Brain Research*, 946:198-205, 2002. PMID: 12137922

84. Faingold, Carl L. and George A. Dunaway, Teaching pharmacology within a multidisciplinary organ system-based medical curriculum, N.S. Archives of Pharmacology 366:18-25, 2002. PMID: 12107628
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