

## Poems

- Dr. Speth's "The Genome Poem"  
[https://drive.google.com/file/d/1pNyhLPaaeMvRb59OlaQZ3WsyU1G861v9/view?usp=share\\_link](https://drive.google.com/file/d/1pNyhLPaaeMvRb59OlaQZ3WsyU1G861v9/view?usp=share_link)

## Peptide Radioiodination Service Center

"Since 1991, starting at Washington State University, I have been preparing HPLC-purified radioiodinated ligands for radioligand binding assays and immunoassays for university and non-profit research organizations on a fee for service basis. The specific niche for this service is that the quantities of radioligand that I provide range from 100's of microcuries to multi-millicurie amounts, at costs less than what commercial suppliers charge for 10 to 50 microcurie amounts. As this is a research endeavor on my part, the provision of the radioligands is a collaborative effort on my part that may involve co-authorship of manuscripts using the radioligands based upon the level of scientific interaction. Presently, I am preparing radioligands in my lab at Georgetown University on a bimonthly basis."

Click [here](#) to see an example of a recent radioiodination of Sarcosine<sup>1</sup>, Isoleucine<sup>8</sup> angiotensin II (SI Ang II). The purified product is the monoradioiodinated SI Ang II.

## Book Chapters

- 1. Speth, R.C., and H.I. Yamamura. 1979. Sodium-dependent high affinity neuronal choline uptake. In: Nutrition and the Brain. A. Barbeau, J.H. Growden & R.J. Wurtman (eds.). Raven Press: New York, NY; Vol. 5, pp. 129-139.
- 2. Speth, R.C., N. Bresolin, T. Mimaki, P.P. Deshmukh, and H.I. Yamamura. 1981. Neuronal localization of benzodiazepine receptors in the murine cerebellum. In: Advances in Biochemistry and Psychopharmacology 26: 27-39.
- 3. Speth, R.C., A. Guidotti, and H.I. Yamamura. 1981. The pharmacology of the benzodiazepines. In: Neuropharmacology of Central Nervous System and Behavioral Disorders. G.C. Palmer (ed.). Academic Press: New York, NY; pp. 243-283.
- 4. Yamamura, H.I., R.C. Speth, R.E. Hruska, N. Bresolin, B.A. Meiners, and R.J. Huxtable. 1981. Effects of kainic acid lesions on taurine transport into rat brain synaptosomes. In: The Effects of Taurine on Excitable Tissues. S.W. Schaffer, S.I. Baskin & J.J. Kocsis (eds.). Spectrum Publishers: New York, NY; pp. 73-80.
- 5. Smeby, R.R., A. Husain, and R.C. Speth. 1982. Properties and subcellular localization of brain renin and its substrates. In: Experiments in Brain Research. Suppl. 4: 118-125.

- 6. Ferrario, C.M., M.T. Schiavone, K.L. Barnes, K.B. Brosnihan, and R.C. Speth. 1985. Role of central mechanisms in the development of endocrine hypertension. In: *Essential Hypertension as an Endocrine Disease*. C.R.W. Edwards & R.M. Carey (eds.). Butterworth: Kent, UNITED KINGDOM; pp. 4-39.
- 7. Gehlert, D.R., R.C. Speth, and J.K. Wamsley. 1985. Quantitative autoradiography of angiotensin II receptors in brain and kidney: focus on cardiovascular implications. In: *Endocoids*. H. Lal, F. Labella & J. Lane (eds.). Alan R. Liss Publisher: New York, NY; pp. 243-249.
- 8. Speth, R.C., J.K. Wamsley, J.W. Wright, R.H. Abhold, and J.W. Harding. 1987. Characterization of putative sites of action of angiotensin II in the rat central nervous system by in vitro receptor autoradiography with <sup>125</sup>I-sarcosine 1 isoleucine 8 angiotensin II. In: *Brain Peptides and Catecholamines in Cardiovascular Regulation*. J.P. Buckley & C.M. Ferrario (eds.). Raven Press: New York, NY; pp. 257-271. SPETH, Robert C.
- 9. Speth, R.C., J.W. Wright, and J.W. Harding. 1988. Brain angiotensin II receptors: comparison of location and function. In: *Angiotensin and Blood Pressure Regulation*. J.W. Harding, J.W. Wright, R.C. Speth & C.D. Barnes (eds.). Academic Press: Orlando, FL; pp. 1-34.
- 10. Grove, K.L., R.C. Speth, and C.S. Zamora. 1991. Renin-angiotensin system on male reproduction. In: *Brain-Gut Hormones and Reproduction*. C.A. Johnston & C.D. Barnes (eds.). Telford Press: New York, NY; pp. 43-59.
- 11. Speth, R.C., K.L. Grove, and C.S. Zamora. 1991. Renin-angiotensin system on female reproduction. In: *Brain-Gut Hormones and Reproduction*. C.A. Johnston & C.D. Barnes (eds.). Telford Press: New York, NY; pp. 21-41.
- 12. Speth, R.C., K.L. Grove, and B.P. Rowe. 1991. Angiotensin and the locus coeruleus. In: *The Neurobiology of the Locus Coeruleus*. O. Pompeiano & C.D. Barnes (eds.). Elsevier Scientific: Amsterdam, THE NETHERLANDS; Vol. 88; pp. 217-226.
- 13. Speth, R.C., S.M. Thompson, and S.J. Johns. 1995. Angiotensin II receptors: structural and functional considerations. In: *Tissue Renin Angiotensin Systems*. A. Mukhopadhyay & M.K. Raizada (eds.). Plenum Press: New York, NY; pp. 169-192.
- 14. Phillips, M.I., H. Wang, B. Kimura, R.C. Speth, and N. Ghazi. 1995. Brain angiotensin and the female reproductive cycle. In: *Tissue Renin Angiotensin Systems*. A. Mukhopadhyay & M.K. Raizada (eds.). Plenum Press: New York, NY; pp. 357-370.
- 15. Speth, R.C., and J.W. Harding. 2001. Radiolabeling of angiotensin peptides. In: *Angiotensin Protocols, Methods in Molecular Biology*. D. Wang, M.D. (ed.). Humana Press: Totawa, NJ; pp. 275-296.

- 16. Potter P, Speth RC. The Role of Nutraceuticals and Natural Products. Chapter 73 Brody's Human Pharmacology 7 th edition (In Press).
- 17. Speth RC. "Renin-Angiotensin Aldosterone System. In: Kenakin, T. (Ed.), Comprehensive Pharmacology. Vol. 4, pp.528-569. Elsevier.  
<https://dx.doi.org/10.1016/B978-0-12-820472-6.00160-2>.

### **Books Edited**

- Harding, J.W., J.W. Wright, R.C. Speth, and C.D. Barnes. 1988. Angiotensin and Blood Pressure Regulation. Academic Press: Orlando, FL; pp. 1-34.

### **Proceedings Edited**

- Proceedings of the 4 th Annual Meeting of the Society for Veterinary Medical Ethics; Reno, NV. October, 1997.

### **Podcast Episodes**

- Dr. Speth discusses the nuances associated with the word "and" when used to connect words, phrases, and clauses.  
<https://podcasters.spotify.com/pod/show/nsuwcc/episodes/Professor-Pathologizes-Polysyndeton-e1ia9cm>

### **Lectures**

- Discussion Leader: "The use of triple-drug regimen for execution by Lethal Injection." Preceptor students of Drs. Jennifer Fass and Angela Garcia September 21, 2010
- Discussion Leader: "Drugs used to mitigate damage caused by exposure to ionizing radiation from radioactive materials." Preceptor students of Dr. Angela Garcia April 20, 2011
- Discussion Leader: "The use of Kava and other natural products promoted as relaxing agents." Preceptor students of Dr. Angela Garcia July 19, 2011
- Discussion Leader: "Navigating the turbulent seas of research in the 21st century" lecture/discussion with Graduate students in Dept. Medicine, Georgetown University, June 8, 2012

### **Invited Research/Seminar Presentations (Since 2018)**

- "The Role of the Researcher in Society: What are our Ethical Duties?" Translational Biomedical Sciences Training Program, Georgetown University, January 4, 2018
- "Mercies in Disguise and the Amanda Baxley Kalinsky Family Story" LifeLong Learning Institute, Nova Southeastern University, January 29, 2018.

- “Acres of Skin: A Post-WW II profile of an Unethical Biomedical Research program in the United States” Bioethics Panel, African-American Month Miami-Dade College, Miami, FL February 13, 2018.
- “Acres of Skin: A Post-WW II profile of an Unethical Biomedical Research program in the United States” Bioethics Panel, African-American Month Miami-Dade College, Miami, FL March 13, 2018.
- “Mercies in Disguise and the Amanda Baxley Kalinsky Family Story” Biology Masters Program Seminar Series, Nova Southeastern University, May 29, 2018.
- “The History of Angiotensin 1-7: Part 1” Department of Pharmacology, University of Arizona, Tucson, AZ, September 12, 2018.
- “Hypertension, Estrogen, Obesity and Alzheimer’s Disease: Connecting the dots” Susie and Alan B Levan Ambassador’s Board, Nova Southeastern University, December 13, 2018.
- “The Ever-Expanding Universe of the Renin-Angiotensin System” Windows into Translation Seminar Series, Department of Medicine, Georgetown University, Washington DC December 20, 2018
- “The History of Angiotensin 1-7: Part 1” College of Pharmacy Graduate Seminar Series, Nova Southeastern University January 25, 2019
- “The Cost of Biomedical Research Misconduct” TL-1 Scholars Seminar Series, Georgetown/Howard Universities, February 21, 2019
- “How to Promote Vaccinations” APhA-ASP College of Pharmacy Nova Southeastern University, March 18, 2019.
- “Addressing the Opioid Epidemic” Students for a Sensible Drug Policy (SSDP), Health Professions Division Nova Southeastern University, April 10, 2019
- “The Philosophy of Toxicity” Honors Symposium on Public Speaking, Farquhar Honors College, Nova Southeastern University, April 18, 2019
- “Conflict of Interest and Collaborative Research” TL-1 Scholars Seminar Series, Georgetown/Howard Universities, May 16, 2019
- “Pleiotropism of the renin-angiotensin system: What Doesn’t it do?” Keynote Lecture, Second Pan-American Congress of Physiological Sciences, Physiology without borders, Havana, Cuba May 29, 2019
- “Comments on the therapeutic use of cannabis” Panel Discussant, Aging in South Florida Symposium, South Florida Institute on Aging (SoFIA), June 21, 2019.
- “Marijuana: Medicine, Nopenthe, Snake Oil, or All of the Above” Biomedical Sciences Graduate Program, Biology Department, Nova Southeastern University July 11, 2019.
- “Biosketches for NIH and other grant proposals” Mentor-Mentee Program, Office of Sponsored Projects, Nova Southeastern University August 20, 2019.

- “Biosketches for NIH and other grant proposals” Webinar, ASPET Mentorship Program, August 26, 2019.
- “Marijuana: Medicine, Nepenthe, Snake Oil or All of the Above?” Students for a Sensible Drug Policy, Nova Southeastern University August 28, 2019.
- “Marijuana: Medicine, Nepenthe, Snake Oil or All of the Above?” Life-Long Learning Institute, Nova Southeastern University October 2, 2019.
- “Misconduct in Research: How Do I Cheat Thee? Let Me Count the Ways.” Department of Biology Seminar Series, Nova Southeastern University October 18, 2019.
- “The Dangers of Dietary Supplements” Honors College, Nova Southeastern University October 23, 2019.
- “Estrogen Replacement Therapy: Use It or Lose It.” Institute for NeuroImmune Medicine, Nova Southeastern University, November 1, 2019.
- “The Brain Angiotensin System: Classic and Novel Functions” Society for Personalized Nano-Medicine, 6 th annual Symposium, Florida International University, November 20, 2019
- “The Dangers of Dietary Supplements” College of Pharmacy Graduate Program Seminar Series, Nova Southeastern University, Jan. 24.
- Panelist; “Federal Agency Reviewer Panel Lunch and Learn” seminar series, Office of Sponsored Projects, Nova Southeastern University, Feb. 19.
- “ACE2 and COVID-19” Faculty Development Program College of Pharmacy, Nova Southeastern University, April 16, 2020.
- “Research Misconduct, or, How do I Cheat Thee: Let Me Count the Ways” TL-1 Scholars Translational Biomedical Sciences Program Georgetown Howard Universities, May 7, 2020
- “Information Overload: How to Deal with It; or Not.” Faculty Development Program College of Pharmacy, Nova Southeastern University, May 14, 2020.
- “Conflict of Interest and the Ethics of Controlled Human Infection in the Age of COVID-19.” TL-1 Scholars Translational Biomedical Sciences Program Georgetown Howard Universities, June 4, 2020
- “ACE2, COVID-19 and the Renin-Angiotensin System”, Biology Masters Program, Nova Southeastern University, July 16, 2020.
- “ACE2 and COVID-19: Malefactor or Megastar?” The Institute for Neuro-Immune Medicine (INIM) Research Seminar Series March 5, 2021
- “ACE2 and COVID-19: SuperHero or SuperVillian?” Society for Neurosports Datablitz March 26, 2021 (3rd place award).
- “Animal Abuse in Horse Racing: Life-Long Learning Institute, Nova Southeastern University July 8, 2021.
- “The Dangers of Dietary Supplements” Masters in Biomedical Sciences Seminar Series, Department of Biology, NSU, July 14, 2021

- “Historical Perspective on the War on Drugs: Towards Developing a More Rational and Humane Policy to Address Drug Abuse” Students for a Sensible Drug Policy, NSU, September 3, 2021.
- “Get the Lead Out or Smelter Skelter” This Lead is Killing Us, Martin and Gail Press Health Professions Division Library Symposium, October 20, 2021
- “Journal Club: The Christchurch Mutation vs Presenilin-1 Mutation” Alzheimer’s Disease Journal Club November 29,, 2021
- “Biosketches” NSU Mentor-Mentee program Dec 10, 2021
- “Get the Lead Out or Smelter Skelter” This Lead is Killing Us, Lifelong Learning Institute, Jan 31, 2022.
- “Angiotensinergic Volume Gliotransmission in the Brain” Brain Bee, College of Psychology, NSU, March 12, 2022.
- “Science in the Post-Truth Era: Science Under Siege” Georgetown/Howard University TL-1 Biomedical Scholars Program April 14, 2022
- “Get the Lead Out or Smelter Skelter” This Lead is Killing Us, Biomedical Health Sciences Summer Seminar Series, August 5, 2022
- “Get the Lead Out: Smelter Skelter to Filthy Faucets” College of Pharmacy Graduate Program Seminar Series, NSU, September 9, 2022
- “Historical Perspective on the War on Drugs:Towards Developing a More Rational and Humane Policy to Address Drug Abuse.” Students for a Sensible Drug Policy (SSDP) October 10, 2022.
- How We Lost the War on Drugs: Post-War Lessons to be Learned. NCPA student chapter, January 12, 2023; Coconut Creek Senior Center for NSU Lifelong Learning Institute, January 30, 2023; NSU Lifelong Learning Institute, March 1, 2023
- “Research Misconduct: The Cost to Scientific Credibility” TL-1 Scholars Translational Biomedical Sciences Program, Georgetown/Howard Universities, April 6, 2023
- “Exercise versus the Evils of the Renin-Angiotensin System” Society for Sports Neuroscience, February 18, 2023.
- “Vincent Van Gogh: Under the Influence”. Brain Bee, Nova Southeastern University, April 8, 2023.

## Videos

- Dr. Speth talks about being part of the first study to identify AT1 and AT2 angiotensin receptors in the rat brain using receptor autoradiography.  
<https://www.youtube.com/watch?v=kZPSihXTFu4>
- Dr. Speth gives a TED Talk about resolving the paradoxical absence and illusion of free will as more technological advancements open a “Pandora’s Box” of

unavoidable conclusions.

[https://www.youtube.com/watch?v=UH\\_VG\\_aqwoc&list=WL&index=27](https://www.youtube.com/watch?v=UH_VG_aqwoc&list=WL&index=27)

- Dr. Speth reflects on being named the 2017 Alliance World Class Faculty member.  
<https://www.youtube.com/watch?v=ceO4tX80zo0&list=WL&index=28>
- Dr. Speth writes and sings a parody of Ob-La-Di-Ob-La-Da by the Beatles entitled “CO2 Blues.” that calls to attention the consequences of CO2 pollution.  
<https://www.youtube.com/watch?v=Shhrm1CzCQk&list=WL&index=30>
- Part 1 of Dr. Speth accepting his Provost’s Award.  
[https://www.youtube.com/watch?v=BbEhAct4R\\_g&list=WL&index=31](https://www.youtube.com/watch?v=BbEhAct4R_g&list=WL&index=31)
- Part 2 of Dr. Speth accepting his Provost’s Award.  
<https://www.youtube.com/watch?v=dmOxtrb878g&list=WL&index=32>

### **Miscellaneous Activities**

- Director: Peptide Radioiodination Service Center, Washington State University (1991-2003) University of Mississippi (2003-2009)
- Director: Peptide Radioiodination Shared Resource, Georgetown University (2012-2020)
- Master of Ceremonies: Angiotensin Gordon Research Conference “Mike Peach Awards” (1995, 1996, 1998, 2002, 2008, 2010, 2012, 2018, 2020, 2022)
- Advisory Board: National Animal Interest Alliance (01/1998-2019)
- Member – Board of Directors: Washington Association for Biomedical Research (03/1998-1999) Emeritus Member 1999
- Dr. Robert Speth Collection of Illinois Central Railroad records.(MUM00426)  
[https://libraries.olemiss.edu/cedar-archives/finding\\_aids/MUM00426.html](https://libraries.olemiss.edu/cedar-archives/finding_aids/MUM00426.html)
- Established the Marvin Davis Award for the best pre-candidacy Graduate Student in Pharmacology with an initial donation December 2005. Presided over the first presentation of the award in August, 2007.
- Established the Wade Waters Pharmacy Alumni Endowment with an initial donation September, 2007. Goal: to establish an Endowed Chair for a Professor with a primary focus on teaching excellence.
- Grant review committee: American Heart Association, Southeast Affiliate, R2 Molecular Signaling Study section, Tampa, FL, April 1, 2008.
- Grant review committee: American Heart Association, Southeast Affiliate, R2 Molecular Signaling Study section, Tampa, FL, April 14, 2009.
- Neuroscience Journal Club, College of Psychology, Nova Southeastern Univ. July 2012-2015
- Gerstmann-Straussler-Scheinker (GSS) Disease; Patient Advocacy with Amanda Kalinsky and Kathy Baxley, Nova Southeastern University, October 19, 2017–presentations to 9 different classes as well as a lunchtime meet and greet.

