Curriculum Vitae
Thad A. Rosenberger, Ph.D.

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University of North Dakota
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Citizenship U.S.A.

Marital Status Married, Theodora M. Kung, RN, BSN. Critical Care Nurse

Education

1991	B.S., Biochemistry, Ohio State University, Columbus, Ohio
1999	Ph.D., Medical Biochemistry, Ohio State University, Columbus, Ohio

Chronology of Employment

1989-1991	Undergraduate Research Associate, Ohio State University, Columbus, Ohio
1991-1994	Senior Analyst, BrainChemTech Corporation, Columbus, Ohio
1994-1999	Graduate Research Associate, Department of Medical Biochemistry, Ohio State University, Columbus, Ohio
1999-2004	Postdoctoral Fellow, Brain Physiology and Metabolism Section, National Institute on Aging, National Institutes of Health, Bethesda, Maryland
2004-2011	Assistant Professor, University of North Dakota School of Medicine and Health Sciences, Department of Pharmacology, Physiology and Therapeutics
2011-present	Associate Professor, University of North Dakota School of Medicine and Health Sciences, Department of Biomedical Sciences

Editorial Boards

2006-present	Senior Associate Editor, Lipids
2013-present	Editor, Inflammation and Cell Signaling
2013-present	Review Editor, Frontiers in Membrane Physiology and Membrane Biophysics

Professional Societies

2000	American Society for Neurochemistry
2000	International Society for Neurochemistry
2003	American Oil Chemist Society
2005	American Physiological Society
2007	Society for Neuroscience

Invited Lectures

American Society for Neurochemistry (1999) New Orleans LA, Title: [1,1-^{3}H] Hexadecanol incorporation into rat brain: An effective model to study *de novo* ether lipid synthesis in awake animals.

American Society for Neurochemistry (2002) Palm Beach, FL, Title: Phospholipase A_2, arachidonate turnover, and the neuroinflammatory response.

American Society for Neurochemistry (2010) Santa Fe, NM, Title: Brain ether phospholipid metabolism and the neuroinflammatory response.

North Texas University/Texas Woman's University (2010) Denton, TX, Title: Acetate and neuroinflammation.

American Society for Neurochemistry, Jordi-Folch Pi Symposium (2011) St. Louis, MO, Title: Acetate supplementation, fatty acid metabolism, and neuroglia communication within the central nervous system.

Publications

1. Murphy, E.J., Slivka, A.P., **Rosenberger, T.A.**, and Horrocks, L.A. (1993) High-performance liquid chromatography separation and quantitation of methylprednisolone from rat brain, *Analytical Biochemistry* 209: 339-342.

2. Murphy, E.J., Haun, S.E., **Rosenberger, T.A.**, and Horrocks, L.A. (1995) Altered lipid metabolism in the presence and absence of extracellular Ca^{2+} during combined oxygen-glucose deprivation in primary astrocyte cultures, *J. Neuroscience Research* 42: 109-116.

3. Murphy, E.J., **Rosenberger, T.A.**, and Horrocks, L.A. (1996) Separation of neutral lipids by high-performance liquid chromatography: quantification by ultraviolet, light scattering and fluorescence detection, *J. Chromatography B, Biomedical Applications* 685: 9-14.

4. Farooqui, A.A., Yang, H.C., **Rosenberger, T.A.**, and Horrocks, L.A. (1997) Phospholipase A_2 and its role in brain tissue, *J. Neurochemistry* 69: 889-901.

5. Murphy, E.J., **Rosenberger, T.A.**, and Horrocks, L.A. (1997) Effects of maturation on the phospholipid and phospholipid fatty acid compositions in primary rat cortical astrocytes cell cultures, *Neurochemical Research* 22: 1205-121.

6. Farooqui, A.A., **Rosenberger, T.A.**, and Horrocks, L.A. (1997) Arachidonic acid, neurotrauma and neurodegenerative diseases, in Handbook of Essential Fatty Acid Biology: Biochemistry, Physiology, and Behavioral Neurobiology, Yehuda, S. and Mostofsky, D.I. editors, Humana Press, Totowa, pp. 277-295.

7. Rintala, J., Seemann, R., Chandrasekaran, K., **Rosenberger, T.A.**, Chang, L., Contreras, M., Rapoport, S.I., and Chang, M.C.J. (1999) A 85 kDa cytosolic phospholipase A_2 is a target for chronic lithium in rat brain, *NeuroReport* 10: 3887-2890.

8. Murphy, E.J., **Rosenberger, T.A.**, Patrick, C.B., and Rapoport, S.I. (2000) [1-^{14}C] Arachidonic acid targets phospholipids and [1-^{14}C] palmitate targets neutral lipids in hearts of awake rats, *Lipids* 35: 891-898.

9. Chang, M.C.J., Contreras, M.A., **Rosenberger, T.A.**, Rintala, J., Bell, J.M., and Rapoport, S.I. (2001) Chronic valproate treatment decreases the *in vivo* turnover of arachidonic acid in brain phospholipids: A possible common effect of mood stabilizers, *J. Neurochemistry* 77: 796-803.

10. Contreras, M.A., Chang, M.C.J., **Rosenberger, T.A.**, Sheaff-Greiner, R., Myers, C.S., Salem, N., and Rapoport, S.I. (2001) Chronic nutritional deprivation of n-3 alpha-linolenic acid does not affect n-6 arachidonic acid recycling within brain phospholipids of awake rats, *J. Neurochemistry* 79: 1090-1099.

11. **Rosenberger, T.A.**, Oki, J., Purdon, A.D., Rapoport, S.I., and Murphy, E.J. (2002) Rapid synthesis and turnover of brain microsomal ether phospholipids in the adult rat, *J. Lipid Research* 43: 59-68.

12. **Rosenberger, T.A.**, Hovda, J.T., and Peters, J.M. (2002) Targeted disruption of the nuclear hormone receptor, PPARβ (δ), results in distinct gender differences in mouse brain phospholipid and esterified FA levels, *Lipids* 37: 495-500.

13. Bosetti, F., Rintala, J., Seemann, R., **Rosenberger, T.A.**, Contreras, M.A., Rapoport, S.I., and Chang, M.C.J. (2002) Chronic lithium downregulates cyclooxygenase-2 activity and prostaglandin E_2 concentration in rat brain, *Molecular Psychiatry* 7: 844-849.

14. Deutsch, J., Rapoport, S.I., and **Rosenberger, T.A.** (2002) Coenzyme A and short-chain acyl-CoA species in control and ischemic rat brain, *Neurochemical Research* 27: 1577-1582.

15. Purdon, A.D., **Rosenberger, T.A.**, Shetty, H.U., and Rapoport, S.I., (2002) Energy consumption by phospholipid metabolism in mammalian brain, *Neurochemical Research* 27: 1641-1647.

16. **Rosenberger, T.A.**, Villacreses, N.E., Contreras, M.A., Bonventre, J.V., and Rapoport, S.I. (2003) Brain lipid metabolism in the $cPLA_2$ knockout mouse, *J. Lipid Research* 44: 109-117.

17. Deutsch, J., Rapoport, S.I., and **Rosenberger, T.A.** (2003) Valproyl-CoA and esterified valproate are not found in brains of rats treated with valproic acid, but the brain concentrations of CoA and acetyl-CoA are altered, *Neurochemical Research* 28: 861-866.

18. Bosetti, F., Weerasinghe, G., **Rosenberger, T.A.**, and Rapoport, S.I. (2003) Valproic acid downregulates the conversion of arachidonic acid to eicosanoids *via* cyclooxygenase-1 and -2 in rat brain, *J. Neurochemistry* 85: 690-696.

19. **Rosenberger, T.A.**, Villacreses, N.E., Hovda, J.T., Bosetti, F., Weerasinghe, G., Wine, R.N., Harry, G.J., and Rapoport, S.I. (2004) Rat brain arachidonic acid metabolism is altered by a six-day intra- cerebral ventricular infusion of bacterial lipopolysaccharide, *J. Neurochemistry* 88: 1168-1178.

20. Lee, H., Villacreses, N.E., Rapoport, S.I., and **Rosenberger, T.A.** (2004) *In vivo* imaging detects a transient increase in brain arachidonic acid metabolism: A potential marker of neuroinflammation, *J. Neurochemistry* 91: 936-945.

21. Patrick, C.B., McHowat, J., **Rosenberger, T.A.**, Rapoport, S.I., and Murphy, E.J. (2005) Arachidonic acid incorporation and turnover is decreased in sympathetically denervated rat heart, *Amer. J. Physiology: Heart Circ. Physiol.* 288: H2611-H2619.

22. Deutsch, J., and **Rosenberger, T.A.** (2005) HPLC analysis of acyl-coenzyme A esters from mammalian tissue, in HPLC of Acyl Lipids, Lin, J. and McKeon, T.A. editors, HNB Publishing, New York pp. 499-520.

23. Bazinet, R.P., Lee, H., Felder, C.C., Porter, A.C., Rapoport, S.I., and **Rosenberger, T.A.** (2005) Rapid high-energy microwave fixation is required to determine the anandamide (N-arachidonoylethanolamine) concentration of rat brain, *Neurochemical Research* 30: 597-601.

24. Bazinet, R.P., Weis, M.T., Rapoport, S.I., and **Rosenberger, T.A.** (2006) Valproic acid selectively inhibits conversion of arachidonic acid to arachidonoyl-CoA by brain microsomal long-chain fatty acyl-CoA synthetases: relevance to bipolar disorder, *Psychopharmacology* 184: 122-129.

25. Golovko, M.Y., **Rosenberger, T.A.**, Faergeman, N.J., Seddersen, S., Cole, N.B., Pribill, I., Berger, J., Nussbaum, R.L., and Murphy, E.J. (2006) Acyl-CoA synthetase activity links wild-type but not mutant α-synuclein to brain arachidonate metabolism, *Biochemistry.* 45: 6956-6966.

26. Ma, K, Deutsch, J, Villacreses, N.E., **Rosenberger, T.A.**, Rapoport, S.I., and Shetty, U. (2006) Measuring brain uptake and incorporation into brain phosphatidylinositol of plasma *myo*-[$^2H_6$]inositol in unanesthetized rats: An approach to estimate in vivo brain phosphatidylinositol turnover, *Neurochemical Research* 31: 759-765.

27. Golovko, M.Y., **Rosenberger, T.A.**, Fedderson, S., Færgeman, N.J., and Murphy, E.J. (2007) α-Synuclein gene-ablation increases docosahexaenoic acid incorporation and turnover in brain phospholipids, *J. Neurochemistry* 101: 201-211.

28. **Rosenberger, T.A.**, Farooqui, A.A., and Horrocks, L.A. (2007) Bovine Brain Diacylglycerol Lipase: Substrate Specificity and Activation by Cyclic AMP-dependent Protein Kinase, *Lipids* 42: 187-95.

29. Willis, S., Ramakrishna, S., **Rosenberger, T.A.**, Borges, K. (2009) Eicosapentaenoic and docosahexaenoic acids are not anticonvulsant or neuroprotective in acute mouse seizure models, *Epilepsia* 50: 138-142.

30. Frieler, R.A., Mitteness, D.J., Golovko, M.Y., Gienger, H.M., and **Rosenberger, T.A.** (2009) Quantitative determination of free glycerol and *myo*-inositol from plasma and tissue by high-performance liquid chromatography, *J. Chromatography B, Biomed Appl.* 877: 3667-3672.

31. Long, E.K., **Rosenberger, T.A.**, and Picklo, M.J. (2010) Ethanol withdrawal increases glutathione adducts of 4-hydroxy-2-hexenal but not 4-hydroxy-2-nonenal in the cerebral cortex, *Free Radical Biology and Medicine* 48:384-390.

32. Frieler, R.A., Watt, J.A., and **Rosenberger, T.A.** (2010) Methods of measuring the activity and expression of phospholipases C from mammalian tissue, in Methods in Signal Transduction: Lipid-Mediated Signaling, CRC Press, Florida pp. 27-54.

33. Bhatt, D.P. and **Rosenberger, T.A.** (2010) Methods for Kinetic Analysis of Fatty Acid Incorporation and Turnover in vivo: A Steady-State Kinetic Radiotracer Approach, in Methods in Signal Transduction: Lipid-mediated Signaling, CRC Press, Florida pp. 395-414.

34. **Rosenberger, T.A.**, Villacreses, N.E., Weis, M.T., and Rapoport, S.I. (2010) Rat brain docosahexaenoic acid metabolism is not altered by a 6 day intracerebral ventricular infusion of bacterial lipopolysaccharide, *Neurochemistry International* 56: 501-507.

35. Reisenauer, C.J., Bhatt, D.P., Mitteness, D.J., Slanczka, E.R., Gienger, H.M., Watt, J.A., and **Rosenberger, T.A.** (2011) Acetate supplementation attenuates lipopolysaccharide-induced neuroinflammation, *J. Neurochemistry* 117: 264-274.

36. Soliman, M.L. and **Rosenberger, T.A.** (2011) Acetate supplementation increases brain histone acetylation and inhibits histone deacetylase activity and expression, *Molecular and Cellular Biochemistry* 352: 173-180.

37. Raatz, S.K., Golovko, M.Y., Brose, S.A., **Rosenberger, T.A.**, Burr, G.S., Wolters, W.R., and Picklo, M.J. (2011) Baking reduces prostaglandin, resolvin, and hydroxy-fatty acid content of farm-raised Atlantic salmon, *J. Agricultural Food Chemistry* 59: 11278-11286.

38. Kakani, R., Fowler, J., Haq, A., Murphy, E.J., **Rosenberger, T.A.**, Berhow, M. and Bailey, C.A. (2012) Camelina meal increases egg n-3 fatty acid content without altering quality or production, *Lipids* 47: 519-526.

39. Bhatt, D.P. Chen, X., Geiger, J.D., and **Rosenberger, T.A.** (2012) A sensitive HPLC-based method to quantify adenine nucleotides in primary astrocyte cell cultures, *J. Chromatography B, Biomed Appl.* 889-890: 110-115.

40. Soliman, M.L., Smith, M.D., Houdek, H.M., and **Rosenberger, T.A.** (2012) Acetate supplementation modulates brain histone acetylation and decreases IL-1β expression in a rat model of neuroinflammation, *J. Neuroinflammation* 9: 51.

41. Hui, L., Chen, X., Bhatt, D., Geiger, N.H., **Rosenberger, T.A.**, Haughey, N.J., Masino, S.A., and Geiger, J.D. (2012) Ketone bodies protect against HIV-1 Tat-induced neurotoxicity, *J. Neurochemistry* 122: 382-391.

42. Soliman, M.L., Puig, K.L., Combs, C.K., and **Rosenberger, T.A.** (2012) Acetate reduces microglia inflammatory signaling in vitro, *J. Neurochemistry* 123: 555-567.

43. Brissette, C.A., Houdek, H.M., Floden, A., and **Rosenberger, T.A.** (2012) Acetate supplementation reduces microglia activation and brain IL-1β levels in a rat model of Lyme neuroborreliosis, *J. Neuroinflammation* 9: 249.

44. Raatz, S.K., **Rosenberger, T.A.**, Johnson, L.K., Wolters, W.W., and Picklo, M.J. Sr. (2013) Dose-dependent consumption of farmed Atlantic salmon (Salmo salar) increases plasma phospholipid n-3 fatty acid differentially, *J. of the Academy of Nutrition and Dietetics* 113: 282-287.

45. Bhatt, D.P., Houdek, H.M., Watt, J.A., and **Rosenberger, T.A.** (2013) Acetate supplementation increases brain phosphocreatine and reduces AMP levels with no effect on mitochondrial biogenesis, *Neurochemistry International* 62: 296-305.

46. Soliman, M.L., Combs, C.K., and **Rosenberger, T.A.** (2013) Modulation of inflammatory cytokines and mitogen-activated protein kinases by acetate in primary astrocytes, *J. Neuroimmune Pharmacology* 8: 287-300.

47. Soliman, M.L., Ohm, J.E., and **Rosenberger, T.A.** (2013) Acetate reduces PGE2 release and modulates phospholipase and cyclooxygenase levels in neuroglia stimulated with lipopolysaccharide, *Lipids* 48: 651-662.

48. Soliman, M.L. and **Rosenberger, T.A.** (2013) *Invited Review*: Dietary acetate supplementation attenuates neuroinflammation, *Adv. Neuroimmune Biol.* 4: 125-140.

49. Houdek, H.M., Larson, J., Watt, J.A., and **Rosenberger, T.A.** (2014) Bacterial lipopolysaccharide induces a dose-dependent activation of neuroglia and loss of basal forebrain cholinergic cells in the rat brain, *Inflammation and Cell Signaling* 1: 1-9.

50. **Rosenberger, T.A.** (2014) *Editorial Highlight*: Targeting calpain-mediated proteolysis and peptide signaling as a strategy to reduce injury in multiple sclerosis, *J. Neurochem.* 130: 161-164.

51. Bhatt, D.P. and **Rosenberger, T.A.** (2014) Acetate treatment increases fatty acid content in LPS-stimulated BV2 microglia, *Lipids* 49: 621-631.

52. Smith, M.D., Bhatt, D.P., Geiger, J.D., and **Rosenberger, T.A.** (2014) Acetate supplementation modulates brain adenosine metabolizing enzymes and adenosine A_{2A} receptor levels in rats subjected to neuroinflammation, *J. Neuroinflammation*, 11: 99.

53. Qin, W., Raatz, S.K., Zhang, K.K., **Rosenberger, T.A.**, and Sauter, E.R. (2014) Polyunsaturated fatty acid content may be increased in the milk of women with pregnancy associated breast cancer, *J. Human Lactation*, 30: 420-424.

54. Raatz, S.K., Johnson, L.K., **Rosenberger, T.A.**, and Picklo, M.J. (2016) Twice weekly intake of farmed Atlantic salmon (*Salmo salar*) positively influences lipoprotein concentration and particle size in overweight men and women, *Nutrition Res*, 36: 899-906.

55. Zacek, P., Bukowski, M., **Rosenberger, T.A.**, and Picklo, M. (2016) Quantitation of isobaric phosphatidylcholine species in human plasma using a hybrid quadrupole linear ion-trap mass spectrometer, *J. Lipid Res.* 57: 225-234.

56. Chevalier, A.C. and **Rosenberger, T.A.** (2017) Increasing acetyl-CoA metabolism attenuates injury and alters spinal cord lipid content in mice subjected to experimental autoimmune encephalomyelitis, *J. Neurochem.* 141: 721-737.

Manuscript in Review or Revision

Manuscripts in preparation

1. Bhatt, D.P. and **Rosenberger, T.A.** (2016) Acetate modulates adenosinergic enzyme and receptor levels in microglia and astrocytes cultures, *Purinergic Signaling* (In Preparation).

2. Chevalier, A.M., **Rosenberger, T.A.**, and Ghribi, O. (2016) Esterified fatty acid and phospholipid composition is not altered in a triple transgenic mouse model of Alzheimer's disease, *Lipids* (In Preparation).

Books Edited

1. Methods in Signal Transduction Series, Lipid-mediated Signaling, Editors: Murphy, E.J. and **Rosenberger, T.A.** (2010) CRC Press, Florida.

Abstracts

1. Murphy, E.J., **Rosenberger, T.A.**, and Horrocks, L.A. (1993) Maturation effects on lipid composition of primary rat astrocytes, *American Society for Neurochemistry*, Richmond, VA.

2. **Rosenberger, T.A.**, Farooqui, A.A., and Horrocks, L.A. (1996) Substrate specificity of bovine brain diacylglycerol lipase, *Neurotrauma Society*, Washington DC.

3. **Rosenberger, T.A.**, Farooqui, A.A., and Horrocks, L.A. (1997) Substrate specificity and enzymatic control of bovine brain diacylglycerol lipase: its involvement in the regulation of protein kinase C, *Lipid Mediators in Neuronal Signaling*, New Orleans, LA.

4. **Rosenberger, T.A.**, Farooqui, A.A., and Horrocks, L.A. (1998) Involvement of diacylglycerol lipase in Alzheimer's disease, *American Society for Neurochemistry*, Denver, CO.

5. **Rosenberger, T.A.**, Rapoport, S.I., and Murphy, E.J. (1999) [1,1-^{3}H]hexadecanol incorporation into rat brain: a novel way to study de novo ether lipid synthesis in awake animals, *American Society for Neurochemistry*, New Orleans, LA.

6. **Rosenberger, T.A.**, Rapoport, S.I., and Murphy, E.J. (2000) Heterogeneous metabolism of ether phospholipids in the adult rat brain, *American Society for Neurochemistry*, Chicago, IL.

7. Rapoport, S.I., Contreras, M.A., **Rosenberger, T.A.**, Bell, J.B., Rintala, J.O., and Chang, M.C.J. (2000) Both valproate and lithium reduce brain turnover in awake rats of the n-6 fatty acid second messenger, arachidonic acid: relevance to bipolar disorder, *Neuropsychopharmacology*, Puerto Rico.

8. **Rosenberger, T.A.**, Hovda, J.T., and Peters, J.M. (2002) Disruption of PPAR(beta), results in distinct differences in mouse brain phospholipid, *American Society for Neurochemistry*, Palm Beach, FL.

9. **Rosenberger, T.A.** and Rapoport, S.I. (2002) Phospholipases A_2, arachidonate turnover, and the neuroinflammatory response, *American Society for Neurochemistry*, Palm Beach, FL.

10. **Rosenberger, T.A.** and Rapoport, S.I. (2003) Selective increased in brain arachidonic acid metabolism in a rat model of acute neuroinflammation, *Gordon Conference*, Meriden, NH.

11. **Rosenberger, T.A.**, Lee, H., Villacreses, N.E., Hovda, J.T., Bosetti, F, Weerasinghe, G., Wine, R.N., Harry, G.J., and Rapoport, S.I. (2004) Lipopolysaccharide infusion for 6 days into rat 4th ventricle upregulates brain phospholipase activity, arachidonic acid metabolism and prostaglandin formation: Targets for evaluating anti-inflammatory drugs, *Symposium on Advances in Alzheimer therapy*, Montreal, Canada.

12. Bazinet, R.P., Weis, M.T., Rapoport, S.I., and **Rosenberger, T.A.** (2005) Valproic acid inhibits brain microsomal long chain fatty acyl-CoA synthetases at physiologically relevant concentrations, *Experimental Biology*, San Diego, CA.

13. Borges, K., **Rosenberger, T.A.**, Samala, R., and Willis, S. (2008) Lack of anticonvulsant and neuroprotective effects of eicosapentaenoic and docosahexaenoic acid in mice, *Society for Neuroscience*, Washington, D.C.

14. Ajjimaporn, A., Gienger, H.M., **Rosenberger, T.A.** (2009) Dose-dependent activation of neuroglia results in a dose-independent loss of ChAT positive cells, *American Society for Neurochemistry*, Charleston, SC.

15. Reisenauer, C.J., Mitteness, D.J., Slanczka, E.R., Gienger, H.M., **Rosenberger, T.A.** (2009) Glyceryl triacetate increases tissue acetyl-CoA levels and attenuates cholinergic cell loss in a rat model of neuroinflammation, *American Society for Neurochemistry*, Charleston, SC.

16. Reisenauer, C.J., Mitteness, D.J., Gienger, H.M., **Rosenberger, T.A.** (2009) Glyceryl triacetate alters brain plasmalogen content and attenuates cholinergic cell loss in a rat model of neuroinflammation, *Gordon Research Conference (Molecular and Cellular Biology of Lipids)*, Waterville Valley, NH

17. **Rosenberger, T.A.** (2010) Brain ether phospholipid metabolism and the neuroinflammatory response, *American Society for Neurochemistry*, Santa Fe, NM.

18. Kakani, R., Haq, A., Fowler, J., Murphy, E.J., **Rosenberger, T.A.**, Berhow, M., and Bailey, C.A. (2010) Quality characteristics and fatty acid composition of eggs from hens fed *Camelina sativa* (camelina meal), *Poultry Science Association*, Denver, CO.

19. **Rosenberger, T.A.** (2010) Ether phospholipid metabolism, acetate supplementation, and the neuroinflammatory response, *3rd Biennial IDeA Symposium*, Bethesda, MD.

20. Bhatt, D.P., Mitteness, D.J., Gienger, H.M., **Rosenberger, T.A.** (2010) Acetate supplementation reduces neuroglia activation and cholinergic cell loss while increasing brain energy reserves and lipid deposition in a rat model of neuroinflammation, *Glia in Health and Disease*, Cold Spring Harbor, NY.

21. **Rosenberger, T.A.** (2011) Acetate supplementation, fatty acid metabolism, and neuroglia communication within the central nervous system, *American Society for Neruochemistry*, St. Louis, MO.

22. Brose, S., **Rosenberger, T.A.**, and Golovko, M.Y. (2011) Rapid brain esterification is required for PG clearance from brain tissue, *Bioactive Lipids Conference*, Seattle, WA.

23. Brissette, C.A., Houdek, H.M., Floden, A.M., and **Rosenberger, T.A.** (2012) Chronic acetate supplementation attenuates microglia activation in a rat model of Lyme neuroborreliosis induced by Borrelia burgdorferi, *Gordon Research Conference (Biology of Spirochetes)*, Ventura, CA.

24. Picklo, M., **Rosenberger, T.**, Burr, G., Wolters, W., Raatz, S. (2012) Twice-weekly consumption of farmed Atlantic salmon increases plasma content of phospholipid n-3 fatty acids, *Experimental Biology/American Society for Nutrition*, San Diego, CA.

25. Soliman, M., Puig, K.L., Combs, C.K., Ohm, J., and **Rosenberger, T.A.** (2012) Acetate reduces microglia-derived pro-inflammatory cytokine expression *in vitro*, *American Society for Neurochemistry*, Baltimore, MD.

26. Smith, M.D., Bhatt, D.P., Houdek, H.M., and **Rosenberger, T.A.** (2012) Acetate supplementation increases CD73 levels and activity in rats subjected to neuroinflammation, *American Society for Neurochemistry*, Baltimore, MD.

27. Floden, A.M., Houdek, H.M., **Rosenberger, T.A.**, and Brissette, C.A. (2012) Lyme neuroborreliosis in the rat: A model to evaluate bacterial invasion, bacterial-mediated neuroinflammation, and therapeutic strategies, *American Society for Neurochemistry*, Baltimore, MD.

28. Bhatt, D.P. and **Rosenberger, T.A.** (2013) Acetate alters purinergic enzyme and receptor levels in glial cultures, *Experimental Biology*, Boston MA.

29. Watt, J.A., Gaultney, R.A., Stone, Brandee, **Rosenberger, T.A.**, and Brissette, C.A. (2014) Antibiotic-killed Borrelia burgdorferi induces sterile inflammation within the rat central nervous system, *American Society for Neurochemistry*, Long Beach, CA.

30. Chevalier, A.C. and **Rosenberger, T.A.** (2014) Triacetin therapy increases brain and spinal cord fatty acid content and attenuates injury in mice subjected to experimental autoimmune encephalomyelitis, *American Society for Neurochemistry*, Long Beach, CA.

31. Bhatt, D.P. and **Rosenberger, T.A.** (2015) Acetate treatment modulates adenosinergic enzyme and receptor levels in microglia and astrocyte cultures, *American Society for Neurochemistry*, Atlanta, GA.

32. Chevalier, A.C. and **Rosenberger, T.A.** (2015) Triacetin therapy alters spinal cord lipid metabolism in mice subjected to experimental autoimmune encephalomyelitis (EAE), Canadian Society for Nutrition, Winnipeg, Canada.

33. Chevalier, A.C. and **Rosenberger, T.A.** (2015) Triacetin therapy alters spinal cord myelin lipid metabolism in mice subjected to experimental autoimmune encephalomyelitis (EAE), *Society for Neuroscience*, Chicago, IL.

34. Chevalier, A.C. and **Rosenberger, T.A.** (2016) Triacetin alters brain and white matter lipid composition in mice subjected to experimental autoimmune encephalomyelitis, *American Society for Neurochemistry*, Denver, CO.

35. Raatz, S.K., Johnson, L.A., **Rosenberger, T.A.**, and Picklo, M.J. (2016) Dose-dependent influences of farmed Atlantic salmon (*Salmo salar*) intake on plasma phospholipid n-3 fatty acids and lipoprotein concentration and particle size in healthy men and women, *Northern Great Plains Lipid Conference*, Grand Forks, ND.

36. Zacek, P., Bukowski, M., **Rosenberger, T.A.**, and Picklo, M.J. (2016) Quantification of isobaric phosphatidylcholine species in human plasma using a triple quadrupole ion-trap mass spectrometer, Northern Great Plains Lipid Conference, Grand Forks, ND

37. Chevalier, A.C. and **Rosenberger, T.A.** (2016) Acetate supplementation alters CNS lipid composition, protein levels of an enzyme involved in ether phospholipid synthesis, and IL-1β in experimental autoimmune encephalomyelitis (EAE) northern Great Plains Lipid Conference, Grand Forks, ND.

Intellectual Property

Not applicable