CURRICULUM VITAE

Name **Ouliana Ziouzenkova, PhD**

Associate Professor

Office Address Department of Human Sciences, Human Nutrition Program
The Ohio State University
331A Campbell Hall
1787 Neil Ave
Columbus, OH 43210-1295
Phone: 614-292-5034
Fax: 614-292-8880

E-Mail ziouzenkova.1@osu.edu
Tel 614-292-5034
Fax 614-292-8880

Place of Birth Kiev, Ukraine
Citizenship Austria, United States Permanent Resident

EDUCATION

1986	B.S./M.S. The State University "Schewtchenko", Kiev, Ukraine
1993	M.S. Degree legalization, Graz, Austria
1997	Ph.D. University of Graz, Austria

POSTDOCTORAL TRAINING

1997 - 1999	Research Associate, University of Southern California School of Pharmacy, Los Angeles, CA
1999 – 2003	Research Associate, Cardiovascular Division, Brigham and Women's Hospital, Boston, MA

ACADEMIC APPOINTMENTS

1999 - 2003	Research Fellow, Brigham and Women's Hospital, Boston, MA
2003 - 2007	Instructor in Medicine, Cardiovascular Division, Brigham and Women's Hospital, Boston, MA
2007 – 2014	Assistant Professor, Ohio State University
2014 – present	Associate Professor, Ohio State University

- Research centers on the identification of gene programs regulated by micronutrients. We translate these basic research findings and nanotechnology approach for development of therapies for treatment of obesity, diabetes, and type 2 diabetes and neurological complications of this disease.

AWARDS AND HONORS

1994 Hermes-Vitamin-Award 1994 for Publication: Winklhofer-Roob, Ziouzenkova, Puhl, Ellenmunter, Greiner, Müller, Van't Hof, Esterbauer, Shmerling.
Impaired resistance to oxidation of low density lipoproteins in cystic fibrosis: Improvement during vitamin E supplementation.
1998 Oxygen Club of California, Lester Packer Young Investigator Award

1998 "Cherry Award " (the top application), American Heart Association Fellowship
1998 Young Investigator Award, IX Biennial Meeting, International Society for Free Radical Research
2002 Young Investigator Award, XI Biennial Meeting, International Society for Free Radical Research
2002 Louis and Norman Katz Basic Science Award Winner, “Enzymatically-Active Lipoprotein Lipase Generates Endogenous PPAR-alpha Ligands”, American Heart Association
2003 Travel Award, Hot Topics in Endocrinology, American Society for Endocrinology, San Diego
2004 Lerner Young Faculty Award at Brigham and Women’s Hospital, Boston
2007 New Investigator Award, First Annual Meeting, Organization for the Study of Sex Differences, Washington DC

Since Joining OSU

2009 Nominated as Distinguished Undergraduate Student Mentor at Denman Forum, OSU
2010 Nominated as Distinguished Undergraduate Student Mentor at Denman Forum, OSU
2012 Presidential Award competition for a poster ‘Estrogen and Retinoid Interactions in the Regulation of Adipose Triglyceride Lipase at the 94th Annual Endocrinology Meeting, Houston, TX
2012 Nominated for Outstanding Women in Technology Award, Tech Columbus, Columbus, Ohio

FUNDED RESEARCH GRANTS & CURRENT FUNDING

1. 1/1/2005 - 12/1/2008. Endogenous PPAR and RXR Regulation Through Retinoic Acid Precursors
   American Heart Association. ($259,996)
   PI: Ouliana Ziouzenkova; Co-I: Dr. Kirkland (Boston University), Dr. Duester (Burnham Institute, CA)
   Goal: To assess whether metabolism of RA precursors generates both an agonist (RA) and an antagonist (Rald) determining RXR and PPAR transcriptional activity

2. 1/1/2005 - 1/1/2007. Studies on Rald function in adipogenesis
   National Institutes of Health funded Obesity center at Boston University ($25,000) 5P30 DK46200-13
   PI: Ouliana Ziouzenkova; Co-I: James Kirkland, Boston University
   Goal: To assess whether retinaldehyde inhibits adipogenesis through the mechanism including suppression of PPARgamma and RXRalpha transcriptional responses

Since Joining OSU

3. 1/1/2009 - 1/1/2010. Adaptive thermogenesis for treatment of obesity.
   The Ohio State University, College of Education and Human Ecology (EHE). ($25,000)
   PI: Ziouzenkova; Co-I: Dr. Li (EHE)
   Goal: To develop a novel strategy to cure obesity using nanotechnology for engineered cell implantation

4. 4/1/2010 - 4/1/2011. Encapsulated Thermogenic Adipocytes for Obesity Treatment.
   Center for Clinical and Translational Science (CCTS) funded by National Institutes of Health UL1RR025755 (National Center for Research Resources) ($1,000)
   PI: Ouliana Ziouzenkova; Co-I: Chandan Sen

Goal: Develop a cost-effective anti-obesity therapy by integrating life, imaging, and engineering technologies

5. 07/01/2010 - 06/30/2011. Implications of vitamin A deficiency for host protection against enteric pathogens
   The Ohio State University Food Innovation Center ($25,000)
   PI: Prosper Boyaka; CO-I: Earl.H. Harrison, Dept. of Nutrition, College of Education and Human Ecology. Linda J. Saif (PI), Food Animal Health Research Program
   Goal: Address the role of vitamin A in serum IgG and mucosal IgA Ab responses

6. 1/1/2011 - 12/1/2011. 'Adaptive thermogenesis for treatment of obesity
   The Ohio State University, EHE, ($25,000)
   PI: Ziouzenkova; Co-I: Dr. Belury, Dr. Li
   Goal: Develop a novel anti-obesity therapy based on nanotechnology and cell engineering

7. 7/1/2011 - 7/1/2012. 3D scaffold platform for identification of polyfunctional nutriceuticals in the management of obesity in men and women
   The Ohio State University Food Innovation Center (FIC Org #42031) ($25,000)
   PI: Ziouzenkova; Co-I: S-T Yang (College of Engineering) Prof. M. Failla (EHE) Associate Prof. J. Bomser (EHE) Associate Prof. K. Lee (College of Food, Agricultural and Environmental Sciences)
   Goal: Develop a 3D platform that will address the influence of dietary compounds and their metabolites on multiple pathways in a sex-specific context

8. 5/1/2012 - Present. Angiotensin II Receptor Antagonism with Azilsartan in Atherosclerosis (4A Study)
   Takeda Corporation. MSA-NC-AZI-117
   PI: Ziouzenkova; Co-I: Rajagopalan

9. 12/1/2011 - 12/1/2012. Encapsulated engineered cells for obesity treatment.
   CCTS) funded by National Institutes of Health UL1RR025755 (National Center for ResearchResources). Industry Partnership Pilot ($50,000)
   PI: Ziouzenkova; Co-I: Drs. Sen, Lee
   Goal: Utilize implantation of encapsulated thermocytes to reduce visceral adiposity and associated with this tissue insulin resistance and chronic inflammation

10. 3/1/2012-30/1-2012 Obesity prevention and treatment with encapsulated engineered cells catabolizing lipids
    Tech Columbus. TechStart Phase 0 Grant for SBIR Assistance ($4000). Training grant
    PI: Ziouzenkova
    Goal: To submit SBIR Phase 1 grant to develop encapsulated bioengineered cell technology for treatment of obesity and related disorders (type 2 diabetes, cardiovascular disease, some cancers)

11. 7/1/2012 – 6/31/2013. Geonutrition: global optimization of nutrition with 3D multibiosensors.
    The Ohio State University office for international Affairs. ($10,000)
    PI: Ziouzenkova, O; Co-I: Jeyakumar, SM; Failla, M; Yang, S-T

Goal: Our goal is to create a multibiosensor assay for measurement of simultaneous effects of nutrients on key biological processes, such as antioxidant, energy, and inflammatory processes, to accelerate discovery of nutraceuticals influencing maternal and child health

12. 5/1/2012 -10/1/2012 Finding cure for type 2 diabetes
    Daskal Enterprise ($16,000) (Gift)
    PI: Ziouzenkova, O
    Goal: To support post-doctoral training in the field focused on the development of treatments of type 2 diabetes

13. 9/1/2012 -8/31/2013 The effect of microencapsulated thermocyte-like murine fibroblasts in canine adipose tissue
    Canine research funds from OSU ($25,112) (Gift)
    PI: Chen Gilor; Co-PI Ziouzenkova, O
    Goal: To test efficacy of obesity treatment with encapsulated thermogenic cells in a dog.

14. 12/2012 - 11/2013. Elucidation of the role of vitamin A in normal and malignant B cell differentiation.
    Center for Advanced Functional Foods Research and Entrepreneurship. ($15,000, Total Award)
    PI: Ziouzenkova, O; Co-I: Benson, DM Jr
    Goal: Identify the role of vitamin A metabolism in regulation of transcriptional networks responsible for B-cell.

15. 03/2013 - 02/2014. 3D reporter assays for studies of drug/nutrient interaction in cancer patients.
    Food Innovation Center. ($25,000 , Total Award)
    PI: Ziouzenkova, O; Co-I: Benson, DM Jr., Failla, M, Johnson, J
    Goal: Development of a semi-quantitative diagnostic tool for measurement of cumulative inflammatory and oxidative stress in plasma from patients as well as for the identification nutrients synergizing with pharmacological therapies

16. 05/2013 - 06/2013. Elucidation of the role of vitamin A in the development of multiple myeloma.
    OSU Molecular Carcinogenesis and Chemoprevention Program. ($5,000, Total Award)
    PI: Ziouzenkova, O; Co-I: Benson, DM. Jr.
    Goal: To demonstrate that Aldh1a1 deficient mice are susceptible to plasmacytoma development via Ppar-gamma dependent mechanism

17. 07/2013 – 10/2015. Identifying protein targets for the induction of thermogenesis in visceral fat.
    Novo Nordisk. ($384,572, Total Award)
    PI: Ziouzenkova, O
    Goal: Identify mediators of thermogenesis in visceral fat using two animal models

18. 08/2013 – 08/2015. Identification of anti-inflammatory properties of eggs in adipose tissue.
    Egg Nutrition Center. ($115,000, Total Award)
    PI: Ziouzenkova, O; Co-I: Failla, M, Schwartz, S
    Goal: To provide evidence of anti-inflammatory and anti-obesogenic effects of micronutrient-rich egg yolk that can potentially lead to an egg-based product improving the health of 1.7 billion obese patients worldwide and the general population

19. 05/2014 – 06/2014. Vitamin A in the development of gammopathies and kidney damage in multiple myeloma.
    OSU Molecular Carcinogenesis and Chemoprevention Program. ($5,000)

PI: Ziouzenkova, O; Co-I: Benson, D

20. 05/2014 – 02/2016. Developing models for identification of therapeutic cell populations.
National Institute of Health, National Center for Resources. ($422,751, Total Award)
Grant/Contact Number: R21OD017244
PI: Ziouzenkova, O; Co-I: Tontonoz, P, Lee, JL, Lee, K, Rajagopalan, S, Alder, H, Roy, S
Goal: Develop new animal models, in which subset of microencapsulated cells will be engrafted in existing animal models for identification of cell subset effects on the host tissue, systemic pathogenesis, and discovery of bioactive molecules with therapeutic properties.

21. 08/2016 -06/2017. Thermogenic biologicals for treatment of obesity and diabetes.
Technology and Commecialization Office, OSU. ($50,000, Total Award)
Grant/Contact Number: Accelerator Award
PI: Ziouzenkova, O; Parquette,J
Goal: To test if EREG delivered by injections or within nanofibers exceed insulin efficacy in the treatment of type 1 diabetes (T1D), prevent side effects of insulin-therapy, and prolong lifespan

22. 04/2017 - 05/2017. Identification of markers for bipolar disorder in adolescent.
CCTS, OSU. ($3,800, Total Award)
PI: Ziouzenkova, O
Goal: To perform proteomic comparison of proteins in adolescent with and without bipolar disorder

23. 01/2017 – 12/2017. Development of nanoscaffold-delivery of insulin sensitizing proteins to target diabetes.
EHE and College of Art and Science, OSU. ($21,841, Total Award)
Grant/Contact Number: SEED Grant
PI: Ouliana Ziouzenkova, Jonathan Parquette, Randy Nelson
Goal: Demonstrate that immobilization of insulin and epiregulin (EREG) on nanoscaffolds will improve their therapeutic efficacy for the treatment of glucose intolerance, obesity, and cognitive dysfunction in a genetic mouse model of type 2 diabetes (db/db mice) compared to conventional treatment with unbound forms of these proteins.

24. 12/2017 – 1/2019. Method for Treatment of Diseases of Central Nervous System (CNS) and Improvement of Cognitive Function by Nanoscaffolds.
Technology and Commercialization Office, OSU. ($100,000, Total Award)
PI: Ouliana Ziouzenkova Co-I: Dr. J. Parquette

25. 7/2018 – 8/2019. Neuroprotective role of a novel antioxidant nanoscaffold in Alzheimer's disease.
Chronic Brain Injury | Discovery Themes, OSU. ($25,000, Total Award)
PI: Ouliana Ziouzenkova Co-I: Dr. J. Parquette, Dr. C. Gu, Dr. S.O. Yoon

26. 1/2020– 6/2021. Antioxidant Nanoscaffold Technology for Combinatorial Treatment of Diabetes.
Falk Medical Research Trust Catalyst Awards Program ($300,000, Total Award)
PI: Dr. J. Parquette Co-PI: Ouliana Ziouzenkova
Goal: Develop and optimize this class of therapeutics with dual properties: (1) as a scaffold to bind and stabilize hormones, such as insulin, and (2) as a concomitant activator of LepR to improve glucose uptake, energy balance, and to reduce associated neurological complications

27. 2020-2021 Kathleen Kelly Trust (Gift) , PI
Decoding the role of thermogenic adipocytes in type 2 diabetes and Alzheimer's dementia
Goal: Elucidate efficacy of thermogenic adipocytes and their secreted proteins in the reduction of hyperglycemia and AD pathogenesis in model organisms.

BIBLIOGRAPHY

ORIGINAL ARTICLES

1. Winklhofer-Roob BM, **Ziouzenkova O**, Puhl H, Ellenmunter H, Greiner P, Müller G, Van't Hof MA, Esterbauer H, Shmerling DH. Impaired resistance to oxidation of low density lipoproteins in cystic fibrosis. Improvement during vitamin E supplementation. Free Radic Biol Med. 19, 725-733. 1995.
   (IF: 4.089) (Citation Count: 63)
2. **Ziouzenkova O**, Winklhofer-Roob BM, Puhl H, Roob JM, Esterbauer H. Lack of a correlation between the alpha-tocopherol content of plasma and LDL, but high correlations for gamma-tocopherol and carotenoids. J Lipid Res. 37, 1936-1346.1996.
   (IF:3.620) (Citation Count: 66)
3. Meraji S, **Ziouzenkova O**, Resch U, Khoschsorur A, Tatzber F, Esterbauer H. Enhanced plasma level of lipid peroxidation in Iranian could be improved by antioxidants supplementation. Eur J Clin Nutr. 51(5), 318-325.1997.
   (IF: 1.261) (Citation Count: 32)
4. **Ziouzenkova O**, Sevanian A, Abuja PM, Ramos P, Esterbauer H. Copper can promote oxidation of LDL by markedly different mechanisms. Free Radic Biol Med. 24, 607-623. 1998.
   (IF: 4.348) (Citation Count: 123)
5. **Ziouzenkova O**, Asatryan L, Sevanian A. Oxidative stress resulting from hemolysis and formation of catalytically active hemoglobin: Protective strategies. Int J Clin Pharmacol Ther. 37, 125-132. 1999.
   (IF: 0.871) (Citation Count: 21)
6. **Ziouzenkova O**, Asatryan L, Akmal M, Tetta C, Wratten ML, Jurgens G, Loseto-Wich J, Heinecke JW, Sevanian A. Oxidative Cross-linking of ApoB and Hemoglobin results in Low Density Lipoprotein Modification: Relevance to Atherogenesis caused by Hemodialysis. J Biol Chem. 274, 18916-18924. 1999.
   (IF: 7.666) (Citation Count: 128)
7. **Ziouzenkova O**, Asatryan L, Wratten ML, Hwang J, Tetta C, Sevanian A. Oxidative stress during ex-vivo hemodialysis of blood is decreased by a novel hemolipodialysis procedure utilizing antioxidants. Free Radic Biol Med. 33, 248-258. 2002
   (IF: 5.533) (Citation Count: 37)
8. Sethi S, **Ziouzenkova O**, Ni H, Wagner DD, Plutzky J, Mayadas, TN. Oxidized omega-3 fatty acids in fish oil inhibit leucocyte-endothelial interactions through activation of PPAR alpha. Blood.100,1340-1346. 2002.
   (IF: 9.631) (Citation Count: 199)
9. **Ziouzenkova O**, Perrey S, Asatryan L, Hwang J, MacNaul KL, Moller DE, Rader DJ, Sevanian A, Zechner R, Hoefler G, Plutzky J. Lipolysis of triglyceride-rich lipoproteins limits inflammatory responses through PPAR-alpha activation. Proc Nat Acad Sci. 5, 2730-2735. 2003
   (IF: 10.272) (Citation Count: 282)
10. Asatryan L, **Ziouzenkova O**, Dunkan R, Sevanian A. Heme and lipid peroxides in hemoglobin-modified low density lipoprotein mediate cell survival and adaptation to oxidative stress. Blood. 102, 1732-1739. 2003.
    (IF: 10.120) (Citation Count: 41)
11. **Ziouzenkova O**, Asatryan,L, Sahady,D, Orasanu,G, Perrey,S, Cutak,B, Hassell,T, Akiyama,T,E, Berger,J,P; Sevanian,A, Plutzky,J. Dual roles for lipolysis and oxidation in peroxisome proliferation-activator receptor responses to electronegative low density lipoprotein. J Biol Chem. 278, 39874-39881. 2003.

(IF: 6.482) (Citation Count: 72)

12. Ahmed W, Orasanu G, Nehra V, Asatryan L, Rader DJ, **Ziouzenkova O,** Plutzky J. HDL hydrolysis by endothelial lipase activates PPARalpha: A candidate mechanism for HDL-mediated repression of leukocyte adhesion. Circulation Research. 98, 490-498. 2006.
(IF: 9.854) (Citation Count: 180)
13. **Ziouzenkova O**, Orasanu G, Sukhova G, Lau E, Berger JP, Tang G, Krinsky NI, Dolnikowski GG, Plutzky J Asymmetric cleavage of beta-carotene yields a transcriptional repressor of RXR and PPAR. Mol. Endocrinology. 21, 77-88. 2007.
(IF: 5.337) (Citation Count: 142)
14. **Ziouzenkova O**, Orasanu G, Sharlach M, Akiyama TE, Berger JP, Viereck J, Hamilton JA, Tang G, Dolnikowski GG, Plutzky J. Retinaldehyde represses adipogenesis and diet-induced obesity. Nature Medicine.13, 695-702. 2007.
(IF: 26.382) (Citation Count: 367)

Since Joining OSU

15. Orasanu G, **Ziouzenkova O**, Devchand PR, Nehra V, Hamdy O, Horton ES, Plutzky J. The peroxisome proliferator-activated receptor-gamma agonist pioglitazone represses inflammation in a peroxisome proliferator-activated receptor-alpha-dependent manner in vitro and in vivo in mice. J Am Coll Cardiol. 52, 869-881. 2008.
(IF: 11.438) (Citation Count: 80)
16. Ying Z, Kherada N, Kampfrath T, Mihai G, Simonetti O, Desikan R, Selvendiran K, Sun Q, **Ziouzenkova O**, Parthasarathy S, Rajagopalan S. A. Modified Sesamol Derivative Inhibits Progression of Atherosclerosis. Arterioscler Thromb Vasc Biol. 31, 536-452. 2011.
PMID: 21183734
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17. Reichert B, Yasmeen R, Jeyakumar SM, Yang F, Thomou T, Alder H, Duester D, Maiseyeu A, Mihai G, Harrison EH, Rajagopalan S, Kirkland JL, and **Ziouzenkova O**. Concerted action of aldehyde dehydrogenases influences depot-specific fat formation. Molecular Endocrinology. 25, 799-809. 2011.PMCID: PMC3082326
(IF: 4.5) (Citation Count: 84)
18. Ying Z, Desikan R, Xu X, Maiseyeu A, Liu C, Sun Q, **Ziouzenkova O**, Parthasarathy S, Rajagopalan S. Modified methylenedioxyphenol analogs lower LDL cholesterol through induction of LDL receptor expression. J Lipid Res. 53, 879-887. 2012.
(IF: 4.39) (Citation Count: 3)
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The prolonged survival of fibroblasts with forced lipid catabolism in visceral fat following encapsulation in alginate-poly-L-lysine. Biomaterials. 33, 5638-5649. 2012.
PMID: 22575837
(IF 2011: 7.6) (Citation Count: 18)
20. Yasmeen R, Reichert B, Deiuliis J, Yang F, Lynch A, Meyers J, Sharlach M, Shin S, Volz K.S., Green K, Lee K, Alder H, Duester G, Zechner R, Rajagopalan S, **Ziouzenkova O**.
Autocrine Function of Aldehyde Dehydrogenase 1 (Aldh1) as a Determinant of Diet- and Sex-Specific Differences in Visceral Adiposity. Diabetes. 62, 124-136. 2013.
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(IF: 4.227) (Citation Count: 44)

22. Gushchina LV, Yasmeen R, and **Ziouzenkova O**. Moderate vitamin A supplementation in obese mice regulates tissue factor and cytokine production in a sex-specific manner. Archives of Biochemistry and Biophysics. 539 (2), 239-247. 2013.
(IF: 3.043) (Citation Count: 15)
23. Yasmeen R, Meyers JM, Alvarez CE, Thomas JL, Bonnegarde-Bernard A, Alder H, Papenfuss TL, Benson DM Jr, Boyaka PN, **Ziouzenkova O**. Aldehyde dehydrogenase-1a1 induces oncogene suppressor genes in B cell populations. BBA - Molecular Cell Research. 1833 (12), 3218–3227. 2013.
(IF: 5.297) (Citation Count: 9)
24. Shen Q, Chitchumroonchokchai C, Thomas, JL, Gushchina LV, DiSilvestro D, Failla ML, **Ziouzenkova O**. Identification of anti-inflammatory and antioxidant properties of mangostin xanthones in adipocyte reporter assays. Molecular Nutrition and Food Research. 58 (2), 239-247. 2014.
(IF: 4.909) (Citation Count: 27)
25. Shen Q, Riedl KM, Cole RM, Lehman C, Xu L, Alder H, Belury M, Schwartz SJ, **Ziouzenkova O**. Egg Yolks Inhibit Activation of NF-kappa B and Expression of Its Target Genes in Adipocytes after Partial Delipidation. J Agric Food Chem. 63 (7), 2013-2025. 2015.
(IF: 3.107) (Citation Count: 6)
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(IF: 5.009) (Citation Count: 15)
28. DiSilvestro,DJ, Melgar-Bermudez E, Yasmeen R, Fadda P, Lee LJ, Kalyanasundaram A, Gilor CL, **Ziouzenkova O**. Leptin Production by Encapsulated Adipocytes Increases Brown Fat, Decreases Resistin, and Improves Glucose Intolerance in Obese Mice. PLOS ONE. 11 (4), e0153198. 2016.
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29. Petrosino JM, Heiss VJ, Maurya SK, Kalyanasundaram A, Periasamy M, LaFountain RA, Wilson JM, Simonetti OP, **Ziouzenkova O**. Graded Maximal Exercise Testing to Assess Mouse Cardio-Metabolic Phenotypes. PLOS ONE. 11, (2), e0148010. 2016.
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30. Yang K, Adin C, Shen Q, Xu L, Lee LJ, Yu L, Fadda P, Samogyi A, Ham K, Gilor C, **Ziouzenkova O**, Aldehyde dehydrogenase 1a1 (Aldh1a1) regulates energy metabolism between different species. Xenotransplantation. 25: e12318. 2017.
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31. Shen Q, Yasmeen R, Marbourg J, Xu L, Yu L, Fadda P, Flechtner A, Lee LJ, Popovich PG, **Ziouzenkova O**. Induction of innervation by encapsulated adipocytes with engineered vitamin A metabolism. Transl Res. pii: S1931-5244(17) 30288-8. 2017.
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B. REVIEWS

Chapters

1. Esterbauer H, Gieseg SP, Giessauf A, **Ziouzenkova O**, Ramos P. Free radicals and oxidative modification of LDL: role of natural antioxidants. In: Woodford FP, Davignon J, Sniderman A. Atherosclerosis X.203-208. 1995.
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2. Esterbauer H, Gieseg SP, Giessauf A, **Ziouzenkova O**, Ramos P. Role of natural antioxidants in inhibiting Cu^{2+} mediated oxidation of LDL. In: Bellomo G, Finardi G, Maggi E, Rice-Evans C. Free radicals, lipoprotein oxidation and atherosclerosis. Richelieu Press, London, 11-26. 1995.
3. Sevanian A, Asatryan L, **Ziouzenkova O**. Low Density Lipoprotein (LDL) modification: Basic Concepts and Relationship to Atherosclerosis. In: Lameire N, Tetta C, Ronco C, Haemodialysis and oxidant stress. Karger AG, Basel, 66-78.1999.
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5. **Ziouzenkova O**, Plutzky J. Exogenous and endogenous mechanisms of PPAR activation: implications for inflammation and atherosclerosis. In: Matsuzawa Y, Kita T, Nagai R, Teramoto T, B. Proceedings of the 13th International Atherosclerosis Symposium, Kyoto, Japan, 9/28 - 10/2/2003. Elsevier, ScienceDirect: International Congress Series. 1262: 147-151. 2004.
6. Orasanu G, **Ziouzenkova O**, Plutzky J. Peroxisome Proliferator-Activated Receptors (PPARs)-Potential targets for Diabetic Atherosclerosis. In: Cheta D. Vascular Involvement in Diabetes: Clinical, Experimental and Beyond. Karger AG. 35-50. 2005.
7. **Ziouzenkova O**, Orasanu G. Lipoproteins and PPAR Signaling in Diabetes. In: Cheta D. Vascular Involvement in Diabetes: Clinical, Experimental and Beyond. Karger AG. 51-62. 2005.
8. **Ziouzenkova O**, Marx N, Libby P, Plutzky J. PPARs in atherosclerosis. In: De Caterina R, Libby P. Endothlelial Dysfunctions and Vascular Disease.337-349. 2007.

Since Joining OSU

9. Jeyakumar SM, Yasmeen R, Reichert B, **Ziouzenkova O**. Metabolism of vitamin A in white adipose tissue and obesity. In: Sommerburg O, Siems W, and Kraemer K. Boca Raton: CRC Press, Taylor and Francis Group. pp. 23-51. 2013.
(Citation Count: 8)

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1**. Ziouzenkova O**, Harrison EH. Retinoid and lipid metabolism. Biochim Biophys Acta. 2012 Jan;1821(1):1-2. (Citation Count: 1)
2. **Ziouzenkova, O**. Vitamin A Metabolism: Challenges and Perspectives. Vitamins & Trace Elements. Vol. 5/1. 2012.
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3. **Ziouzenkova, O**. Personalized Medicine: The Contribution of Micronutrients. Review of Editorial, Austin Journal of Nutrition and Food Sciences. Vol. 2, no. 4: 2. 2014.
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4. DiSilvestro, D and **Ziouzenkova, O**. Supplement: The prolonged survival of fibroblasts with forced lipid catabolism in visceral fat following encapsulation in alginate-poly-L-lysine. World Biomedical Frontiers. 2014.
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5. Yasmeen, R and **Ziouzenkova, O**. Autocrine function of aldehyde dehydrogenase 1 as a determinant of diet- and sex-specific differences in visceral adiposity. World Biomedical Frontiers. 2014.
http://biomedfrontiers.org/diabetes-2014-1-12/.
6. Reichert, B, Yasmeen, R, Jeyakumar, SM, Yang, F, Thomou, T, Alder, H, Duester, G, Maiseyeu, A, Mihai, G, Harrison,EH, Rajagopalan, S, Kirkland, JL, **Ziouzenkova, O**. Translational Highlights from Molecular Endocrinology. The Journal of Clinical Endocrinology & Metabolism. 1571–1573. 2013.
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Peer-reviewed:

1. **Ziouzenkova O**, Gieseg SP, Ramos P, Esterbauer H. Factors affecting resistance of low density lipoproteins to oxidation. Lipids. 31:s-71-76. 1996.
(IF 5y: 2.28) (Citation Count: 53)
2. Sevanian A, Asatryan L, **Ziouzenkova O**. Low Density Lipoprotein (LDL) modification: Basic Concepts and Relationship to Atherosclerosis. Blood Purif.17(2-3): 66-78. 1999.

(IF: 0.703) (Citation Count: 60)
3. **Ziouzenkova O**, Sevanian A Oxidative Modification of Low Density Lipoprotein (LDL) in HD Patients: Role in electronegative LDL formation. Blood Purif. 18(3):169-176. 2000. (IF: 0.703) (Citation Count:44)
4. **Ziouzenkova O**, Perrey S, Bacqueville D, Marx N, Plutzky J. Peroxisome Proliferator-activated Receptors. Curr Atheroscler Rep. 4 (1):59-64. 2002. (IF 2011: 2.45) (Citation Count: 47)
5. **Ziouzenkova O**, Plutzky J. Lipolytic PPAR activation: new insights into the intersection of triglycerides and inflammation? Curr. Opin.Clin.Nutr.Metab. Care. 7,369-375. 2004. (IF: 3.089) (Citation Count: 25)
6. Devchand PR, **Ziouzenkova O**, Plutzky J. Oxidative stress and peroxisome proliferators-activated receptors: reversing the curse? Circulation Res. 95,1137-1139. 2004. (IF: 9.854) (Citation Count: 18)
7. Ahmed W, **Ziouzenkova O**, Brown J, Devchand PR, Frances S, Kadakia M, Kanda T, Orasanu G, Sharlach M, Plutzky J. PPARs and their metabolic modulation: new mechanisms for transcriptional regulation? Journal of Internal Medicine. 262,184-198. 2007. (IF: 6.46) (Citation Count: 105)

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8. **Ziouzenkova O** and Plutzky J. P. Retinoid metabolism and Nuclear Receptor Responses: New Insights into coordinated regulation of the PPAR-RXR Complex, FEBS Lett. 582,32-38. 2008. (IF: 3.264) (Citation Count: 204)
9. Yasmeen R, Jeyakumar SM, Reichert B, Yang F, **Ziouzenkova O**. The contribution of vitamin A to autocrine regulation of fat depots. Biochim Biophys Acta. 1821(1),190-7. 2012. PMCID:PMC319674317. (IF: 5.084) (Citation Count: 75)
10. DiSilvestro D, Petrosino J, Aldoori A, Melgar-Bermudez E, Wells A, **Ziouzenkova O**. Enzymatic intracrine regulation of white adipose tissue. Hormone Molecular Biology and Clinical Investigation. 19 (1), 39-55. 2014. (IF: 0.947) (Citation Count: 7)
11. Petrosino JM, DiSilvestro D, and **Ziouzenkova O**. Aldehyde Dehydrogenase 1A1: Friend or Foe to Female Metabolism? Nutrients. 6 (3), 950-973. 2014. PMID: 24594504 PMCID: PMC3967171 DOI: 10.3390/nu6030950 (IF: 5.480) (Citation Count: 34)
12. Lee A and **Ziouzenkova O**. A paracrine role for white thermogenic adipocytes in innervation: an evidence-based hypothesis. Neural Regeneration Research. 14,217-221. 2019. doi: 10.4103/1673-5374.244777. PMID: 30531000 PMCID: PMC6301184 (IF: 2.47) (Citation Count: 1)
13. Kumar SB, Arnipalli SR, Ziouzenkova O. Antibiotics in Food Chain: The Consequences for Antibiotic Resistance. Antibiotics (Basel). 2020 Oct 13;9(10):688. doi: 10.3390/antibiotics9100688.PMID: 33066005 (IF: 3.8) (Citation Count: 13)
14. Muhanna D, Arnipalli SR, Kumar SB, Ziouzenkova O. Osmotic Adaptation by Na+-Dependent Transporters and ACE2: Correlation with Hemostatic Crisis in COVID-19. Biomedicines. 2020;8(11):460. doi: 10.3390/biomedicines8110460.PMID: 33142989 (IF: 4.7) (Citation Count: 5)

C. PATENTS

1. Plutzky J, **Ziouzenkova O**. Use of 9-cis retinoic acid its salts, hydrolysable esters, prodrugs or metabolites. U.S. Patent Application Nos. 60/228,763 and 60/246,067. Filed August 29, 2001. WO200217901-A; WO200217901-A2; US2002031539-A1; AU200189167-A; AU2001289167-A8; WO200217901-A3

2. Plutzky J, **Ziouzenkova O**. Lipid derivs. of phosphono acids. U.S. Patent Application Nos. 60/331,124. Filed November 8, 2001. WO2003039583-A; WO2003039583-A1; US2003129216-A1; EP1450853-A1; AU2002363332-A1; US6869603-B2; US2005129724-A1; AU2002363332-B2

Since Joining OSU

3. International Application US 61/064,375. Plutzky J, **Ziouzenkova O. '**Retinaldehyde in the treatment of Obesity, Diabetes and other Conditions', February 27, 2009

4. **Ziouzenkova O**. CAPSULE OF THERMOGENIC CELLS FOR TREATING A METABOLIC DISEASE, U.S. Application Serial No. 12/884,587, filed September 17, 2010.

5. Patent Number(s): WO2017172881-A1. Ziouzenkova, O and Parquette, J.'Thermogenic composition and methods' Patent Assignee: Ohio State Innovation Found.

D. ABSTRACTS PUBLISHED IN ISI JOURNALS

1. Winklhofer-Roob B. M., **Ziouzenkova O**, Puhl H, and Esterbauer H. "Impaired resistance to oxidation of low-density lipoproteins (LDL) in cystic fibrosis patients: inmprovement during vitamin E supplementation" FASEB J Vol. 8 (1994): page: A272
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4. **Ziouzenkova O**, Asatryan L, Akmal M, Wratten Ml Tetta C, Sevanian A. "Novel hemodialysis procedure utilising antioxidants decreases oxidative stress during ex-vivo circulation of blood." Journal of the American Society of Nephrology. Vol. 9. (1998): Abstract A1413 page 277A.
5. **Ziouzenkova O**, Asatryan L,Hwang J, Sevanian A, Plutzky J. "Lipoprotein lipase prevents the vascular cell Adhesion Molecule (VCAM) 1 expression induced by Electronegative LDL (LDL)." Circulation. Vol. 102 Supplement II. Dallas: American Heart Association. (2000): 1224 II-250.
6. **Ziouzenkova O**, Perrey S, Sukhova G, Asatryan L, Hwang J,MacNaul K, Moller D, Rader D, Sevanian A,Zechner R,Hoefler G, Pluzky J. "Enzymatically Active Lipoportein lipase generates Endogenous PPAR alpha Ligands." . Circulation. Vol. 106 supplement Abstract1154. (2002)
7. **Ziouzenkova O**, Asaryan L, Hwang J, Perrey S, Sevanian A, Plutzky J. "Electronegative LDL subfraction (LDL-) modulates PPARalpha signaling." Free Radical Biology and Medicine. Vol. 33. (2002): S138, Abstract 361.
8. **Ziouzenkova O**, Perrey S, Krinsky N, Plutzky J. "The beta-carotene metabolite beta-apo-14'-carotenal is a natural inhibitor of nuclear receptor PPARalpha." [Abstract]. Free Radical Biology and Medicine. Vol. 33. (2002): S242, Abstract 644.
9. Sahady D, **Ziouzenkova O**, Akyama T, Berger J, Pluzky J. "Monoacylglycerol is a novel endogenous PPAR-alpha activator." Circulation. Vol. 108 (supplement). (2003): Abstract 503.
10. Orasanu G, **Ziouzenkova O**, Nehra V, Plutzky J. "The Peroxisome Proliferator-Activated Receptor (PPAR) gamma Agonist Pioglitazone Represses Endothelial Vascular Cell Adhesion Molecule 1 in a PPAR alpha-Dependent Manner: Evidence for PPAR Crosstalk." Circulation. 2005 ed. Vol. 112 (Suppl). (2005): Abstract 1064.

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12. **Ziouzenkova O**, Orasanu G, Sharlach M, Akiyama TE, Berger JP, Viereck J, Hamilton JA, Tang G, Dolnikowski GG, Plutzky J. "Retinaldehyde Inhibits Adipogenesis through RXR and PPAR-gamma Repression." Circulation. Vol. 114:II_301. (2006): Abstract 1556.
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14. Saavedra A, **Ziouzenkova O**, Plutzky J. "Anti-inflammatory properties of lipoprotein lipase-treated lipoproteins, in a mouse model of irritant dermatitis" Journal of the American Academy of Dermatology. Volume: 56 Issue: 2 Supplement: S (2007) Pages: AB38

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15. Ying ZK, Farrar B, Kherada N,Chung YC, Simonetti O, Desikan R, Khan B, Parthasarathy S , **Ziouzenkova O**, Rajagopalan S. "A Novel Sesame Oil Derivative Inhibits Atherosclerosis Through PPAR alpha and NF kappa B-Dependent Mechanisms." Arteriosclerosis thrombosis and vascular biology. Vol. 29. (2009): E48.
16. Yasmeen R, Lynch A, Reichert B, Yang F, Lee K, Duester G, and **Ziouzenkova O**. "Diet−Induced Visceral Obesity in Female Mice Depends on Autocrine Retinoic Acid Production." Endocrine Reviews. Vol. 32. (2011): P1-779.
17. Yasmeen R, Reichert B, Duester G, **Ziouzenkova O**. "Concerted Action of Aldehyde Dehydrogenases Influences Depot-specific Fat Formation." FASEB Journal. Vol. 25 (2011) : 775.13 and lb181
18. Meyers JM, Yang F, Yasmeen R, Duester G, **Ziouzenkova O**. "High-fat diet-dependent increase in plasma immunoglobulin levels are repressed by aldehyde dehydrogenase1 a1." FASEB J. Vol. 26 (2012): lb454.
19. Yasmeen R, Reichert B,Duester G, **Ziouzenkova O**. "Retinaldehyde-Mediated Lipolysis Underlay Sexual Dimorphism in Visceral Obesity in Mice." FASEB J. Vol. 26 (2012): 649.3
20. Reichert B, Yasmeen R, Yang F, Kotzbeck P, Poeschl M, Zechner R, **Ziouzenkova O**. "Estrogen and Retinoid Interactions in the Regulation of Adipose Triglyceride Lipase." Endocrine Reviews. Volume: 33, Issue: 03_MeetingAbstracts, Pages: SAT-88 to SAT-88.
21. Shen Q, Chitchumroonchokchai C, Gushchina LV, DiSilvestro D, Failla ML, **Ziouzenkova O**. "Identification of the role of mangostin in adipocytes with high-throughput biosensor platform". FASEB J. Vol. 27, Bethesda: Federation of American Societies for Experimental Biology. (2013): 862.35.
22. Gushchina LV, Yasmeen R, Meyers JM, Thomas J, Benson DM, Boyaka P, **Ziouzenkova O**. "The role of vitamin A metabolites in human and murine B cells". FASEB J. Vol. 27, Bethesda: Federation of American Societies of Experimental Biology. (2013): 32.4.
23. DiSilvestro D, **Ziouzenkova O**, Lee JL. "Encapsulated thermogenic and appetite suppressing fibroblasts attenuate weight gain in mice". Endocrine Reviews. Stanford: Endocrine Society. (2013): OR08-6 http://press.endocrine.org/doi/abs/10.1210/endomeetings.2013.OABA.9.OR08-6
24. Yasmeen, R, Meyers, JM, Alvarez, CE, Thomas, JL, Bonnegarde-Bernard, A, Alder, H, Papenfuss, TL, Benson, DM, Jr, Boyaka, PN, **Ziouzenkova, O**. "Aldehyde dehydrogenase-1a1 induces oncogene suppressor genes in B cell populations". FASEB J. Vol. 28, Bethesda: Federation of Experimental Biology. (2014): 639.7.
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26. Aldoori A, Algortam G, **Ziouzenkova O**, Gracious, B. "Immune response influences in an adolescent cohort examined for the pathogenesis of mood disorders". FASEB J. Vol. 28, Bethesda: Federation of Experimental Biology. (2014):811.26.

27. Shen Q, Riedl KM, Cole RM, Lehman C, Xu L, Alder H, Belury M, Schwartz SJ, **Ziouzenkova O**. Characterization of milk and soy phospholipid liposomes and their effects on inflammation using an adipocyte model.
E Kosmerl, D Rocha-Mendoza, I Garcia-Cano, O Ziouzenkova, ...
JOURNAL OF DAIRY SCIENCE 102, 8-8 Bethesda: Federation of Experimental Biology. (2015): 922.11.
28. Petrosino JM, Maurya S, Kalyanasundaram A, Wilson J, Periasamy M, **Ziouzenkova O**. "Maximizing the Max Test: A Method for Determining Cardiorespiratory Fitness and Dysfunction in Mice". FASEB J. Vol. 29, Bethesda: Federation of Experimental Biology.
29. **Ziouzenkova O**, Shen Q, Yasmeen R, Popovich P. "Thermogenic adipocytes regulate axonal growth, innervation, and thermogenic remodeling of white adipose tissue via retinoic acid-ephrin A5-dependent pathway". FASEB J. Vol. 30,Bethesda: Federation of Experimental Biology. (2016): Lb 145. (2015): 632.10.
30. Petrov B, Aldoori A, Algorta GP, Yang K, Yasmeen R, Gracious B, Fristad M, and **Ziouzenkova O**. "Bipolar Disorder in Youth is Associated with Increased Low Molecular Weight Fraction of Vitamin D Binding Protein". FASEB J. Vol. 30,Bethesda: Federation of Experimental Biology. (2016): lb155.
31. Lee A, Yasmeen R, **Ziouzenkova O**. 'Epiregulin improves glucose uptake by mouse preadipocyte and ameliorates glucose intolerance in ob/ob mice' Conference: Annual Meeting of the American-Society-for-Pharmacology-and-Experimental-Therapeutics (ASPET) at Experimental Biology Meeting Location: Chicago, IL Date: APR 22-26, 2017 FASEB J Vol. 31 Supplement: 1 (2017): lb338
32. Petrov B, Aldoori A, James C, Yang K, Algorta GP, Lee A, Zhang L, Lin T, Al Awadhi R, Parquette JR, Samogyi A, Arnold LE, Fristad MA, Gracious B, **Ziouzenkova O**. 'Bipolar Disorder in Youth is Associated with Increased Low Molecular Weight Fraction of Vitamin D Binding Protein'.Conference: Annual Meeting of the American-Society-for-Pharmacology-and-Experimental-Therapeutics (ASPET) at Experimental Biology Meeting Location: Chicago, IL Date: APR 22-26, 2017 FASEB J Vol. 31 Supplement: 1 (2017) Meeting Abstract: 636.2
33. Kosmerl E, Rocha-Mendoza D, Garcia-Cano I, Ziouzenkova O, Jimenez-Flores R. Characterization of milk and soy phospholipid liposomes and their effects on inflammation using an adipocyte model.J Dairy Science, 102(2019): 8-8
34. Ziouzenkova, O. Encyclopedia.pub. Antibiotic Resistance. https://encyclopedia.pub/4243. (2020).

INVITED PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

Local and National Research Presentations

1998 Lecturer, 'Formation of an Atherogenic LDL Subfraction in Blood: How Hemoglobin Overcomes Plasma Antioxidants During Hemodialysis' Seminar, National Institute of Environmental Health Sciences, Research Triangle, Durham, North Carolina
1999 Lecturer, 'Formation of an Atherogenic LDL Subfraction in Blood: A Probable Consequence of Inflammation', Cardiovascular Seminar, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts
2006 Speaker, 'Anti-inflammatory Effects of PPARs', Research Symposium on 'Advanced Glycation End Products and Diabetic Complications: Insights into New Mechanisms and New Therapeutic Targets', Cambridge, Massachusetts, March 17-19
2007 Speaker, 'Asymmetric cleavage of beta-carotene yields a transcriptional PPAR and RXR repressor', Gordon Conference on Carotenoids, Ventura, California, January 7-122007 Lecturer, 'Asymmetric cleavage of beta-carotene yields a transcriptional PPAR and RXR repressor', Seminar, University of California Los Angeles, Los Angeles, California, January 12
2007 Speaker, 'Retinaldehyde Suppresses Obesity and Insulin Resistance Resulting from High-Fat Feeding' Cardiovascular, Diabetes, and Metabolic Disorders Research Center retreat, Boston, Massachusetts, February 13

Since joining OSU

2008 Speaker, 'Vitamin A metabolism and the metabolic syndrome', Klassen symposium, Columbus, Ohio, May 6
2008 Speaker, 'Vitamin A metabolism and the metabolic syndrome', FASEB 'Retinoids', New Heaven, Connecticut, June 15-20
2008 Lecturer, 'Endogenous regulation of nuclear receptors: implications for the metabolic syndrome', Molecular Carcinogenesis and Chemoprevention Program, Columbus, Ohio, September 25
2008 Lecturer, 'Endogenous regulation of nuclear receptors: implications for the metabolic syndrome', Seminar at Rutgers University, New York, November 17
2009 Lecturer, 'Antioxidants: the rise, the fall, and the reincarnation', Seminar for Columbus Section of the American Chemical Society, Columbus, Ohio, September 9
2009 Lecturer, 'Vitamin A Metabolism: The Gate of Fat Cell Fate', Seminar for Department of Human Nutrition seminar series, OSU, Columbus, Ohio, December 2
2010 Lecturer, 'From vitamin A to retinal or retinoic acid: an unexpected twist for obesity', Seminar for The Dorothy M. Davis Heart and Lung Research Institute seminar series, OSU, Columbus, Ohio, February 5
2010 Lecturer, 'Nutrigenomics of Longevity', American Chemical Society Columbus Section Meeting, OSU, Columbus, Ohio, March 17
2010 Lecturer, 'Aldehyde Dehydrogenase, Family 1: A Signaling Crossroad' Seminar for the Department of Pharmacology, OSU, Columbus, Ohio, June 1
2011 Lecturer, 'Vitamin A metabolism and regulation of B-cell differentiation' Seminar for Immunology Round Table, OSU, Columbus, Ohio, April 22
2011 Lecturer, 'From Bench to Bedside: the Vitamin A Contribution' Seminar for The Dorothy M. Davis Heart and Lung Research Institute seminar series, OSU, Columbus, Ohio, June 3
2011 Lecturer, 'From Bench to Bedside: the Vitamin A Contribution' Seminar for Cardiovascular Department, Brigham and Women's Hospital, Boston, June 6
2012 Lecturer, 'Vitamin A: A checkpoint for lipid metabolism?' Seminar for the Department of Human Nutrition, Columbus, Ohio, May 4
2013 Lecturer, 'Vitamin A metabolism and B cells.' Seminar for the Department of Human Nutrition, Columbus, Ohio
2013 Lecturer, 'Energy regulation by vitamin A metabolism: perspective for the therapy.' CCTS Pilot Program Retreat.
2014 Lecturer, 'Integration of vitamin A metabolism into myelomagenesis and B cell differentiation.' Presented at Seminar for 'Multiple Myeloma Interest Group'
2015 Lecturer, 'Look who's talking: an insight into communication between brain and adipose tissue in obesity." Seminar, Human Nutrition seminar series.
2017 Presenter, 'Protein-Nanomatrices for Treatment of Diabetes and Obesity'. Presented at The Ohio State University Spring 2017 Startup Snapshot. Columbus, May 9.
2017 Lecturer, 'NutriNanoMedicine:Better than Nature?" Seminar/ meeting, Davis Heart and Lung Institute. Columbus, September 18.
2017 Lecturer, 'NutriNanoMedicine: Better than Nature?" Seminar at Food Science and Technology. Columbus, September 20.
2018 Speaker,' Encephacure technology for treatment of diseases of central nervous system (CNS) and improvement of cognitive function' Erdos Technology Showcase, TCO, OSU, Columbus, February 28
2018 Lecturer, 'Vitamin A role in thermogenic fat formation. Translational perspectives' Nemours Children's Clinic, Endocrinology, Jacksonville, Florida, United States, May 28
2018 Speaker,'Diabesity and neurodegeneration: a nanotechnology solution?' Alzheimer's Disease Research Center of Excellence and department of Neuroscience Seminar series, OSU, August 1.

2018 Speaker, ‘Trinity: The beginning and the end of infinite development’. How Do You See The World? The Thompson Institute, OSU, September 23.
2019 Speaker,’ How to treat diabetes in the brain? An emerging role of nanotechnology’. Human Nutrition Seminar series, OSU, February 1.
2019 Presenter, ‘Nanotechnology answers to Alzheimer's disease’. Technology Oversight Committee. Department of Biochemistry, OSU February 16.
2020 Speaker, ’Thermogenic adipose tissues. Concepts, conundrums, and translational potential’. Human Nutrition Seminar series, OSU, January 31.
2020 Speaker, ‘New therapeutic molecules to address glucose metabolism and brain function in diabetes and Alzheimer's disease’ Center for Brain Injury, OSU, July1

International Research Program Activities

1998 Speaker, ‘Modification of LDL During Hemodialysis’, EDTA meeting, Madrid, Spain
1998 Speaker, Awardee presentation: ‘Cross-Linking Of ApoB And Hemoglobin Causes LDL Modification In Plasma’, IX Biennial Meeting, International Society for Free Radical Research, Sao Paolo, Brazil, 7-11 September
2000 Speaker, ‘Electronegative LDL (LDL-) Increases Plasminogen Activator Inhibitor 1 (PAI-1) Through Peroxisome Proliferator Activated Receptor (PPARgamma) Mechanisms’, American Heart Association, New Orleans, Louisiana, November 12-15
2001 Speaker, ‘Modulation of Peroxidase-Dependent PPARgamma Signaling by Antioxidants’, Oxygen Club of California, Santa Barbara, CA
2002 Speaker, ‘Enzymatically-Active Lipoprotein Lipase Generates Endogenous PPAR Alpha Ligands’, American Heart Association, Chicago, IL
2003 Speaker, ‘Electronegative LDL decreases VCAM-1 expression in a PPARalpha-dependent fashion: synergistic action of oxidation and lipolysis’, ‘Hot topics in endocrinology’, San Diego, CA
2005 Speaker, ‘Vitamin A metabolites regulate PPAR and RXR function’, Seminar, Karl-Franzens University, Graz, Austria2005 Speaker, ‘Endogenous pathways regulate activation and inhibition of PPAR function’, Third International Symposium on ‘PPARs EFFICACY AND SAFETY From Basic Science To Clinical Applications’, Monte Carlo, Monaco, March 19-23

Since Joining OSU

2007 Speaker, Hermann Esterbauer Memorial Meeting: Ten Years After: ‘Reactive Oxygen Species and Antioxidants: From Biochemistry to Human Disease’, Graz, Austria, October 15
2007 Speaker, 3rd International Symposium of the Human Nutrition & Metabolism Research and Training Center Graz ‘Bridging the Gap between Lifespan & Healthspan Nutrition and Healthy Ageing’, Graz, Austria, October 15-18
2008 Speaker, ‘Proteomic studies on retinaldehyde functions in adipose tissue’, Keystone Symposium on Nuclear Receptors: Orphan Brothers, Whistler, British Columbia, Mar 30 - Apr 4
2009 Lecturer, ‘Vitamin A: an evolving role in the regulation of energy homeostasis’, ‘Technical University of Munich, Munich, Germany, June 17
2012 Speaker, ‘Vitamin A metabolism: contribution to sexual dimorphism in fat depot formation’, FASEB “Retinoids”, Snowmass, Colorado, June 10-15
2013 Speaker, ‘Vitamin A and B cell differentiation.’ Presented at Gordon Research Conference. Ventura, California, United States.
2013 Speaker, ‘Identifying protein targets for the induction of thermogenesis in visceral fat.’ Presented at Great Lakes Science Forum. Chicago, Illinois, United States. Scientific group of Novo Nordisk, Denmark.

2013 Keynote Speaker, 'Vitamin A: An unexpected role in B cell cancers." Presented at International Conference and Exhibition on Biochemical & Molecular Engineering San Antonio, Texas, United States.
2013 Speaker, 'Vitamin A metabolism: a switch between obesity and thermogenesis'. International Conference and Exhibition on Biochemical & Molecular Engineering. San Antonio, Texas, United States
2015 Speaker, 'Thermogenic Trojan horse: new biologicals against visceral obesity and glucose intolerance.' Research Seminar at Novo Nordisk, Denmark.
2020 Webinar presenter, 'Hypokalemia: A culprit leading to the severe COVID-19 pathogenesis. International Webinar on Physical Health', Nursing Care and COVID-19 Management.
2020 Webinar on Physical Health, Nursing Care and COVID-19 Management initiated by Editors Journal of Physical Therapy and Sports Medicine International Journal of Orthopedics and Physical Rehabilitation, November 13-14 UK, https://physicaltherapy.scientificmeditech.com/.
2021 Keynote speaker. Host metabolism during COVID-19: Charted and uncharted territory. Physical Health Webinar Lecture conducted from Kington, UK. https://scientificmeditech.com/. March 19.
2021 Keynote speaker. Hypokalemia: seasonal occurrence and relation to the severe COVID-19 pathogenesis. Physical Health Webinar 2021. Lecture conducted from London, United Kingdom. http://physicaltherapy@scientificmeditech.com/ July 23
2021 Keynote speaker. Post-vaccination era of COVID-19: nutritional considerations. Physical Health Webinar Lecture conducted from Kington, UK. https://scientificmeditech.com/. November 12.
2021 Speaker, 'Amino acid nanofibers with antioxidant moiety confer cognitive therapeutic efficacy to bound insulin' 4th International Conference on Translational Chemistry (IC3TC) Caparica Portugal December 7 http://

PROFESSIONAL ACTIVITIES

A. Offices Held

2008-present	The Thomson Reuters Expert Witness Services, Consultant
2009-present	Sight Institute, Consultant
2012-present	Co-founder and Chief Scientific Officer at Life Capsules, LLC, an OSU-supported start company

B. Professional Societies

1995-1999	Österreichische Biochemische Gesellschaft
1997-1998	International Society of Free Radical Research (ISFRR)
2001	Oxygen Club of California world congress. Co-organizer and Chair. Santa Barbara, California, USA
2003-present	American Heart Association

Since joining OSU

2007-present	American Society for Nutrition
2007	3rd International Workshop of the HUMAN NUTRITION & METABOLISM RESEARCH ANDTRAINING CENTER. Moderator, Chair, and Poster Prize Committee member. Graz, Austria
2007	Hermann Esterbauer Memorial Meeting: Ten Years After. Moderator. Graz, Austria
2011-present	Member, The Endocrine Society
2011-present	American Diabetes Association

Scientific Editorial Board

2013 - Present	Austin Journal of Nutrition and Food Sciences.
2013 - Present	Advances in Endocrinology.
2012 - Present	Internal Medicine.

Acting Editor

2011 - Present	Vitamins & Trace Elements.

Associate Editor

2013 - 2019	BMC Obesity.
2018 – present	PLOS ONE
2019 - present	BMC Endocrine Disorders

Journal Guest Editor

2010 - 2012 Biochimica et Biophysica Acta Molecular and Cell Biology of Lipids. Issue Special issue (1). Vol. 1821 (2012)

Advisory board

2020- present Encyclopedia

Invited Peer Reviewer

2013 USDA State of New Jersey Formula Funding (Hatch Proposal), Rutgerts University. (Grant).

2013 University of Alabama at Birmingham Nutrition Obesity Research Center. (Grant). Vol. Intramural Grant program for UAB NORC.

Business and Technology Reviewer

2017 USTAR Technology Acceleration Program, Utah's Technology catalysts (USTAR), Utah, United States. Review of start-up funding from the government of Utah

C. University Committees and Services

Department and College

2008-2015	Graduate Studies Committee for the Masters of Human Nutrition Program
2009-present	Russell Kline Symposium at the Department of Human Nutrition, OSU, mentor, member of award committee, and faculty judge
2011-present	Research Scholarship Reviewer at College of Education and Human Ecology (EHE), OSU
2012	Branding task force, EHE, OSU
2012	Search Committee member, position in Diet Assessment
2012	Scholarship/Awards committee, Acting Chair
2015	P&T committee, Contributor Notes: Developed a SEI comments evaluation letter for Dr. Everts
2016	Workload taskforce committee, Contributor
2019-present	Graduate Studies Committee for the Masters of Human Nutrition Program

University

2007-2019	The OSU interdisciplinary PhD program in nutrition (OSUN), member
2008-present	Atherosclerosis Unit at OSUMC, member

2008-present	OSU Comprehensive Cancer Center, member and faculty judge
2009-present	Denman Undergraduate Research Forum, mentor and faculty judge
2009-present	OSU Center for Advanced Functional Foods Research and Entrepreneurship (CAFFRE), member
2009-present	The OSU E.F. Haynes Graduate Research Forum, faculty judge
2010	Maximus competition for OSU honor fellowships, faculty judge
2010-present	Center for Clinical and Translational Science (CCTS)
2010-present	Food Innovation Center (FIC), member and reviewer
2010-present	Service to university as a graduate faculty representative
2011-present	Immunology Round Table at OSU
2012-2018	OSUN Graduate studies committee member
2013 - 2014	Present Kuhn Honors & Scholars Center, Eminence Fellows Program Advisor Notes: Advisor/Mentor of a student Meera Nagarajan.
2016 - present	Honors and Scholars Students Enrichment, Reviewer
2017	Presidential fellowship, Reviewer
2019 - present	Committee of Academic Misconduct, Voting member

International

2012	Ad Hoc reviewer for Vienna Scientific-, Research-, and Technologie Funds (Austria) (In German: 'Wiener Wissenschafts-, Forschungs- und Technologie Fonds (WWTF)')

D. Peer Review for Professional Journals:

2007-present Ad hoc reviewer for peer-reviewed journals:

'African Journal of Agricultural Research'
'Applied Physiology, Nutrition, and Metabolism'
'Archives of Biochemistry and Biophysics'
'BBA General Subjects'
'BBA Molecular and Cell Biology of Lipids'
'Biomaterials'
'BMC Obesity'
'Biochemistry and Cell Biology'
'British Journal of Nutrition'
'British Journal of Pharmacology'
'Cellular and Molecular Life Sciences'
'Chemical Research in Toxicology'
'Circulation Research'
'Diabetes'
'Experimental Biology and Medicine'
'FASEB Journal'

'Indian Journal of Medical Research'
'International Journal of Environmental Research and Public Health'
'International Journal of Biochemistry and Cell Biology'
'International Journal of Obesity'
'Journal of Affective Disorders'
'Journal of Agricultural and Food Chemistry'
'Journal of Functional Foods'
'Journal of Nutrition'
'Journal of Nutrigenetics and Nutrigenomics'
'Journal of Physiology and Biochemistry'

'Journal of Translational Medicine'
'Lipids'
'Metabolites'
'Molecular Nutrition and Food Research'
'Nutrients'
'Nutrition & Metabolism'
'Obesity'
'Plos One'
'Scientific Reports'
'Science of the Total Environment'
'World Journal of Surgical Oncology'

UNIVERSITY TEACHNG

The Ohio State University:
U level:
1. Instructor (100%) HUMNNTR 2210 (Science of Human Nutrition; U level, 4 credit hours/year)
2. Instructor (100%) HUMNNTR 3780H (Research methods' U level, 1 credit hours/yearr)
3. Co-Instructor (100%) HUMNNTR 4610 (Micronutrients: Vitamins and Minerals U level, 4 credit hours/year)

Guest lectures:
1. ANIM SCI H299 Honors Freshman Research Seminar (3 credit hours/year)
2. 2910H Honors Organic Chemistry I (4.00 credit hours/year)

G level

1. Co-Instructor (25%). HUMNNTR 762 (Principles of Nutrient Metabolism; 5 credit hours/year)
2. Co-Instructor (30%). HUMNNTR 763 (Advanced Vitamin & Mineral Metabolism; 5 credit hours/year)
3. Co-Instructor (30%). HUMNNTR 830 (Advanced Lipid and Energy Metabolism)
4. Co-Instructor (20%). Human Nutrition 889 (Nutrition Research and Assessment –
5. Principles and Techniques; 3 credit hours/year) Instructor (100%) 699 and 699H Researc Humn Ntr, Education & Human Ecology
6. Instructor (100%) 999 and 993 Dissertation research
7. HUMNNTR 653. Research seminar
8. Co-Instructor (50%) HN/AS/FST 7761 (Macronutrient Metabolism; G level, 4 credit hours/year).
9. HUMNNUTR7761-0010 (11199) (Advanced Micronutrients G level 4.00/year)
11. Co-Instructor (33%) HN/AS/FST 8801 (Advanced Lipid and Energy Metabolism; G level, 4 credit hours/year).
12. Co-Instructor (50%) HN/AS/FST 8802 (Advanced Micronutrients; G level, 3 credit hours/year).
13. Co-Instructor (50%) HN/AS/FST 8880 (Human Nutrition Seminar; G level, 1 credit hours/year).
14. Co-Instructor (70%) HN/AS/FST 8881 (Advanced Lipid and Energy Metabolism; G level, 3 credit hours/year).

Guest lectures:
1. MG5796 Topics in Signal Transduction (4.00 credit hours/year)

STUDENTS SUPERVISED

A. Postdoctoral Fellows (Major Professor)

2012-2012 Liubov V. Gushchina, Ph.D.;

‘Regulation of thermogenesis by vitamin A metabolism‘
Submitted Pelotonea post-doctoral application 'Regulation of gammopathies by transcriptional action of vitamin A metabolites in human and murine B cells' (June 2012)
Submitted postdoctoral application "The visceral fat contribution to atherosclerosis in mice" to American heart Association (July 2012)
First author on 1 paper, co-author on 1 publication.

2014-2016 Rumana Yasmeen, Ph.D.;
First author on 1 paper, co-author on 2 publications.

2018-2019 No-Joon Song, Ph.D. (Recepient of Korea Science Foundation fellowship);
Co-author on 2 publications.

2020-2020 Shashi B Kumar, Ph.D.(Recepient of Indian Council of medical Research (ICMR-DHR) International Fellowship)

Visiting Scolars

1. Shanmugam M. Jeyakumar, PhD, Visiting Senior Research Scientist from National Institute of Nutrition, India. Co-mentored with Dr. Dr. Harrison, Department of Human Nutrition.
   1. OSU Presenter of collaborative work at a national conference
   2. First author on a book chapter and a co-author on three published papers.

2014 - 2015 Yang, Ke Feng. The epigenetic mechanism of metabolic programming induced by maternal high-fat feeding. Shanghai Jiao Tong University. Current Positions: Teaching professor.
The first author on one and co-author on one publication.

2014 - 2015 Lu Xu, MD. Soochow University, Jiangsu. Graduated:2008. Current Positions: Surgent.
First author on 1 paper, co-author on 3 publications.

B. Ph.D. (Major Professor)

2008-2013 Rumana Yasmeen.
‘Identification of vitamin A metabolism role in obesity‘
- First author on 2 publications, co-author on 2 publications, and 5 published abstracts
- Winner of 2 poster prizes at Experimental Biology 2012 international meeting
- Helen Strow International Programs Fund Scholarship (Travel Award)
- Graduate Student Travel Awards from
  a) Food Innovation Center,OSU;
  b) College of Education and Human Ecology (EHE),
  c) Office of Research Graduate Student Travel Award
- Recipient of two T. Klein Hamilton awards
- Recipient of EHE Graduate Dissertation Research Fellowship. College of EHE
- Poster presenter at:
  a) Jensen Symposium on Nuclear Receptors, Cinncinati
  b) two Comprehensive Cancer Center Annual Scientific Meetings, OSU
  c) two Russell Klein Symposium, OSU
  d) EHE Student Research Forum
  e) two Experimental Biology meetings

2011-2015 David DiSilvestro

‘Engineering and encapsulation of thermogenic cells‘ for the treatment of obesity related diseases.
• First author of 1 research article, 1 review article, co-author of 3 published papers, and first author of 2 published abstracts
• Recipient of Travel Award at Early Career Forum at The Endocrine Society’s 95th Annual Meeting & Expo, San Francisco,
2014
• Recipient of EHE Dissertation Research Fellowship, 2014
• Poster presenter at EHE Student Research Forum, 2014
• Presenter at the Experimental Biology Meeting,San Diego, 2013

2015-2019 Aejin Lee
• Recipient of T. Klein Hamilton award
• the first author on 3 published papers
• co-author on 3 published papers
• the first author on 1 published abstract (poster)
• 2018 Hayes Forum poster presenter

C. M.S. (Major Professor)

2008-2010 Julie Mayeku
‘Effects of Aldh1A1 on IgA production‘. Co-adviser with Dr. Harrison.
• Poster presenter at regional and national conferences.

2012-2013 Qiwen Shen
‘Identification of nuriceuticals in 3D multisensor reporter assays‘
• Recipient of Virginia Vivian Research Award
• Poster. FIC annual meeting. Columbus, OH 9/2012
• First author on 3 published papers
• Co-author on 4 published papers.

2013-2014 Ayat Aldoori
‘Elucidation of signaling mediators between adipose and neural tissue‘.
• Co-author of 1 review article and 1 published paper
• Poster presenter at EHE Student Research Forum, 2014
• Poster presenter at Russell Klein Nutrition Research Symposium, 2014
• Poster presenter at the Experimental Biology Meeting,San Diego, 2014

2013-2015 Jennifer Petrosino
• First author of 1 paper and 1 review, Co-author of 1 review
• Recipient of Excellence Award in Human Sciences Department, 2014
• Recipient of Weissman Fellowship from Parent Project Muscular Dystrophy to attend pre-meeting and international conference in Chicago 2014
• Poster presenter at 'The muscle microenvironment: a niche for the next generation of biomedical scientists, OSU, 2014

2015-2016 Brawnie Petrov
• First author of 1 published paper and 2 published abstracts.
2021-present Silvia carrau, MD, PhD

D. Honor Students (Major Professor)

1. 2008-2010 Barbara Reichert, Undergraduate Student

'Aldehyde Dehydrogenase Family-1 Regulates Female-Specific Visceral Obesity through mTORC1'.

1. First author on one paper, co-author on 2 papers, and 3 published abstracts.
2. Recipient of Nancy Reger Broughton Endowed Scholarship, Dept. of Human Nutrition, OSU
3. Frank & Violet Koken Scholarship, Kappa Delta Foundation
4. Board of Trustees Student Recognition Award, OSU
5. President Salute to Undergraduate Academic Achievement Award 2010
6. Honors & Scholars Summer Research Scholarship, Honors Program, OSU
7. Full Undergraduate Research Scholarship, EHE
8. Carolyn L. Kuckein Student Research Fellowship
9. Alpha Omega Alpha Honor Medical Society
10. Trainee Day Travel Award, and the Presidential Poster awardee at the Endocrine Society
11. Annual Meeting and Expo, 2012
12. Speaker: The Ohio State University Honors Day Presentation
13. Poster presenter:
    a) Jensen Symposium on Nuclear Receptors, Cinncinati
    b) Two Denman Undergraduate Forums, OSU EHE Student Research Forum
    c) OSU Wexner Medical Center Trainee Research Day
    d) Russell Klein Symposium, OSU
    e) Comprehensive Cancer Center Annual Scientific Meeting
    f) American Medical Association Medical Student Section Interim Meeting, New Orleans.
    g) The Endocrine Society Annual Meeting and Expo, Houston, TX

2. 2010 – 2010 Miller Coleen, Undergraduate Student

3. 2011 – 2012 Michael Holbrook, Undergraduate Student

1. Poster presenter at Denman Undergraduate Forum

4. 2020 – present Adham Abushukur, Undergraduate Student

E. Mentor of research

1. Anastasija Katcyna, Undergraduate student (2008 – 2009)

1. Poster presenter at Denman Undergraduate Forum

2. Joseph Meyers, Undergraduate Student (2010 – 2012)

1. Co-auhtor on a publication (in review) and a published abstract
2. Awardee of Pelotonia Undergraduate Research fellowship, OSU
3. Dorothy D. Scott Scholarship Fund, EHE
4. Leta Gigax Duhamel Scholarship Fund, EHE
5. Poster presenter at:
    a) Two Denman Undergraduate Forums, OSU
    b) EHE Student Research Forum
    c) Two Annual OSU Comprehensive Cancer meetings
    d) Russell Klein Symposium, OSU
    e) Two Summer Undergraduate Research Institute Forums, OSU
    f) The Ohio State University Honors Day Presentation
    g) Experimental Biology 2012

3. Alisha Lynch, Undergraduate Student (2010 – 2011)

1. Co-author on a publication (in review)
2. Poster presenter at Denman Undergraduate Forum
    a) The Ohio State University Honors Day Presentation
    b) URO Summer Research Forum

4. Zhen Deng, Undergraduate Student (2011)
1. Presenter, URO Summer Research Forum

5. Chelsea Fazekas, Undergraduate Student (2011)
1. Poster presenter at URO Summer Research Forum

6. Kaitlyn McDowell, Undergraduate Student (2011 – 2012)

7. Jaisa Thomas, Undergraduate Student (2012)
1. URO summer research forum presenter
2.Co-author on a publication

8. Alexandra Wells. Undergraduate Student (2012-2014 Graduated:2014)
Current Positions: Medical
Student, OSU.
1. URO summer research forum presenter
2. Co-author on a publication
3. Recipient of EHE summer research fellowship

9. Christopher Lehman. Undergraduate Student (2013, Graduated:2013)
Current Positions:Medical student.
1.Co-author on a publication

10. Meera Nagarajan. Undergraduate Student (2013-2014)
2014 - 2015 Rasul, Kereem. The Ohio State University

11. Melgar-Bermudez, Emiliano. Undergraduate Student (2013-2016, Graduated:2016)
Current Positions: Masters student.
1.Co-author on 1 publication and 1 review.

12. Paula de Farias Alves. Undergraduate Exchange Student, Brazil (2016)

13. Gobbo, Liamara S. Undergraduate Exchange Student, Brazil (2016)

14. Albuquerque Oliveira Santos, Lucas. Undergraduate Exchange Student, Brazil (2016)

15. Xin Zhang. Undergraduate Student (2016-2016)

16. Jennifer Wall. Undergraduate Student (2017-2018)
1. Co-author on a publication
2. Poster presenter at:
EHE Student Research Forum

17. Shivam Vashi. Undergraduate Student (2017-2018)

18. Jake Leung. Undergraduate Student (2017-2019)
EHE Student Research Forum
1. Co-author on a publication
2. Poster presenter at:
EHE Student Research Forum
Denman Undergraduate Forum

19. 2018 –2020 present Devan Kowdley, Undergraduate Student

1. Poster presenter at Denman Undergraduate Forum
2. Co-autor on 2 publications
3. Poster presenter at EHE Forum

20. Szarvas David I. Undergraduate Student (2018-2019)

21. Shire Samira A. Undergraduate Student (2018-2018)

22. Danah Muhanna, Undergraduate Student (2018--present)
1. Poster presenter at Denman Undergraduate Forum. Winner: First Place
2. First author on a publication

23. Ayah Hussain, Undergraduate Student (2019--2020)

24. Shnvanth Arnipalli, Undergraduate Honors Student (2020-present)
1. Poster presenter at EHE Forum
2. Co-author on three publications

25. Priyanka Metha, Undergraduate Student (2021-present)

F. Mentor of Research Training of Visiting Scholars

1. Katharina Volz. Undergraduate Student. University of Graz, Austria (2008).
Co-autor on a publication

2. Jarrett, Brittany Yasemin. Undergraduate Student. Cornell University (06 2009)

3. Elizabeth Aurand. High School Intern. New Albany High School (05-06 2011)

4. Hsiang-Kai Ko. Undergraduate Student.Taipei Medical University (07-08 2009)

5. Kao-Ting Lee. Undergraduate Student.Taipei Medical University (07-08 2011)

6. Ji-Ting Chen. Undergraduate Student.Taipei Medical University (01-02 2012)

7. Mei Fang Kao. Undergraduate Student.Taipei Medical University (01-02 2012)

8. Ji-Ting Chen. Undergraduate Student. Taipei Medical University (2012)

9. Yi-An Lai. Taipei Medical University. (2012) Graduated:2013.

10. Chia-Lun Yang. Masters student. Taipei Medical University (2013)

11. Samar Mandourah. Medical student. Royal College of Surgeons in Ireland, Dublin (2014)

12. Samar Mandourah. Medical student. Royal College of Surgeons in Ireland (2015)

13. Reem Al Awadi. Medical student. Royal College of Surgeons in Ireland. (2015)
Co-author on one publication

14. Sermet, Muhammed Omer. Graduate Student. Middle East Technical University, Ankara. (2015).

15. Mariana Caroline Furian Pontin. Masters student. Universidade de São Paulo (2017).
Co-author on one publication

G. Dissertation Committee Member

Doctor of Philosophy Students

1. Sagar Thakkar
'Pre-absorptive metabolism of carotenoids'. Mentor: Dr. Failla, Depart. of Human Nutr., OSU (01-06 2008)

2. Eroglu Abdulkerim
'Beta-apocarotenoids and retinoid receptor signaling'. Mentor: Dr. Harrison, Department of Human Nutrition, OSU (2008-2012)

3. Matthew Fleshman
'Beta-Carotene absorption and metabolism'. Mentor: Dr. Harrison, Department of Human Nutrition, OSU (2009-2011)

4. Xueting Jiang
'Dietary oxidized lipids and intestinal ApoA1 synthesis'. Mentor: Dr. Parthasarathy, University of Central Florida (2010-2014)

5. Catherine Troolin
'Efficacy of orange fleshed sweet potato in enhancing breast milk vitamin A status in pregnant Kenyan women'. Mentor: Dr. Melgar -Quinones, Department of Human Nutrition, OSU (2010-2012)

6. Jinsoo Ahn 'Role of adipose tissue-derived factors in adipose tissue development and lipid metabolism'. Mentor: Dr. Lee, Animal Sciences, OSU (2011-2015)

7. Jinhui Li. 'Regulation of NFkappaB-Mediated Inflammation By Green Tea in Obese Models of Nonalcoholic Steatohepatitis.' Mentor: Dr. Bruno, Human Sciences, (2014 – 2017)

8. Grant Foglesong. 'Lifestyle Improvements Enhance Metabolic Function and Mitigate Breast Cancer Progression'. Mentor: Dr. Cao, The Ohio State University Comprehensive Cancer Center (2015 – 2017).

9. Joonbum Lee. Mentor: Dr. K.Lee, Animal Sciences. (2015 – Present).

10. Nadini Ghosh. Mentor: Dr. Sen, Wexner Medical Center. (2015 – 2019).

11. Erika L.Kosmerl. Dissertation Committee Member. Phospholipids in Milk. (2020 – Present)
Mentor: Dr. R. Jiménez-Flores, Department of Food Science and Technology, OSU

12. Kate S. Ormiston
Mentor: Dr.T. Orchard, Department of Human Sciences, OSU. (2018 – Present)

13. Lucy Chung. Mentor: Dr. A.Bird, Department of Human Sciences, OSU. (2018 – 2022)
Mentor: Dr.Bird, Department of Human Sciences, OSU.

14. Zhang Q. Probing the Active Site of CNx Catalysts for the Oxygen Reduction Reaction in Acidic Media: A First-Principles Study. (2018-present)

Master of Science Students

1. Nancy Baker
'Supplementation with conjugated linoleic acid (CLA) as a complimentary therapy in the managment of type 2 diabetes mellitus'.
Advisor: Dr. Belury, Depart. of Human Nutrition, OSU (2007-2008)

2. Emily Brown
'Regulation of peroxisome proliferator-activated receptor alpha by selected beta apocarotenoid'.
Advisor: Dr. Harrison, Department of Human Nutrition, OSU (2008-2010)

3. Brian Stephens
'The role of tea polyphenols on prostanoid synthesis in gastric cancer cells'.
Advisors: Drs. Failla and Bomser, Department of Human Nutrition, OSU (2010-2011)

4. Sara E. Puchala. 'The association between adiponectin levels in lean muscle mass in postmenopausal women'.
Advisor: Dr. M. Belury, Department of Human Sciences, OSU (2014 – 2015)

5. Cardona Soto, Carlos A. 'The transcription factor Loz1 represses gene expression under high zinc conditions in the fission yeast Schizosaccharomyces pombe.'
Advisor: Dr. A. Bird, Department of Human Sciences, OSU (2016 – 2017)

6. Kim, Joshua B. 'Hepatoprotective effects by green tea extract in a diethylnitrosamine-administered mouse model with nonalcoholic steatohepatitis'.
Advisor: Dr. Bruno, Department of Human Sciences, OSU (2016 – 2017)

7. Kosmerl, Erica. 'Investigation of Bioactive Milk Phospholipid Liposomes and Soy Phospholipid Liposomes on Adipocyte'.
Advisor: Dr. R. Jiménez-Flores, Department of Food Science and Technology, OSU (2017 – 2019)

8. Weeks, Andrew. TBD.
Advisor: Dr. A Bird, Department of Human Sciences, OSU (2018 – 2020 tranfer to PhD)

9. Zhang, Zihan
Advisor: Dr. T Orchard, Department of Human Sciences, OSU (2020 – present)

Honor Students

1. Kathleen Nemer
'The role of punicic acid (c9t11c13-CLNA0 in lipid and energy metabolism of mice'. Dr. Belury, Department of Human Nutrition, OSU (01-06 2009)
2. Judy Reu
'The role of retinoic acid in the differentiation of the hair follicle'. Dr. Everts, Department of Human Nutrition, OSU (04 2012-2013)

3. Schrader, Evan
'Developing Topical Nutrition Therapy for Endothelial Cell Tumors'. The

Ohio State University medical Center. Current Positions: Florida State Univ, Medical School.