

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

1982-1987	Saint Petersburg State University, Saint-Petersburg, Russia	B.S., 1987	Biochemistry
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Graduate

1987-1988	Saint-Petersburg State University, Saint-Petersburg, Russia	M.S., 1988	Biochemistry
1990-1995	Russian Academy of Sciences, Institute of Evolutionary Physiology and Biochemistry Saint-Petersburg, Russia	Ph.D., 1995	Biochemistry

Post-Graduate

1997-2000 2002-2004	Department of Environmental and Occupational Health, University of Pittsburgh, PA, USA	Postdoctoral Fellow	Kagan V.E. Biochemistry
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APPOINTMENTS AND POSITIONS

Academic

1995-1997	Research Biochemist Biochemistry	Institute of Evolutionary Physiology and Biochemistry Russian Academy of Sciences, Saint-Petersburg, Russia
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1997-2004	Post-Doctoral Fellow Department of Environmental and Occupational Health	University of Pittsburgh Pittsburgh, PA, USA
2004-2005	Research Associate Department of Environmental and Occupational Health	University of Pittsburgh Pittsburgh, PA, USA
2005-2011	Research Assistant Professor Department of Environmental and Occupational Health	University of Pittsburgh Pittsburgh, PA, USA
2011-2015	Research Associate Professor Department of Environmental and Occupational Health	University of Pittsburgh Pittsburgh, PA, USA
2015-Present	Research Professor Department of Environmental and Occupational Health	University of Pittsburgh Pittsburgh, PA, USA

Non-Academic

1991-1992	Visiting Researcher	Pharmaceutical Company Sigma-Tau, Pomezia, Rome, Italy
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2002-2008	Society for Experimental Biology and Medicine
2002-2018	Society for Toxicology
2006-2010	Radiation Research Society
2008-Present	American Association for the Advancement of Science
2014-Present	American Society for Mass Spectrometry

HONORS

1995-1996	Grant from the British Physiological Society - Support Scheme for Centers of Excellence in Eastern Europe and Third World Countries
1997-1998	Grant from Committee for Aid for Neurochemistry (International Society for Neurochemistry)
1998-1999	International Neurological Science Fellowship (F05 NS 10669) from the NIH/NINDS in collaboration with WHO, Unit of Neuroscience, Division of Mental Health and Prevention Abuse.
2000-2001	Fellowship from Leukemia Research Foundation Inc.
2001-2002	IBRO Scholarship against Brain-Drain

2006-2006 Alice Hamilton Award for Excellence in Occupational Safety and Health.

PROFESSIONAL ACTIVITIES

Research and Training

Grants and Contracts Received

Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2015-2020	Mechanism-Directed Sequential Delivery of Radiation Mitigators, Lipidomics and Bioanalytical Core – Core F, U19 AI068021	NIAID	\$170,000	30.0
2011-2017	Oxygenated species of cardiolipins as biomarkers of mitochondrial dysfunction, ES020693	NIEHS	\$225,000	30.0
2010-2012	Assessment of submitochondrial localization and binding of GS-TEMPO conjugates. U19 AI068021/CMCR/Pilot project	NIAID	\$82,000	
2012-2013	Design and development of nano-formulation of mitochondria-targeted TPP-IOA as radiomitigator. U19 AI068021/CMCR/Pilot project	NIAID	\$65,000	
2013-2014	A new metabolic target for radiomitigation: hydrolysis of oxidized cardiolipins in small intestine of irradiated mice. U19 AI068021/CMCR/Pilot project	NIAID	\$53,000	
2014-2015	Hepoxilin A – a new metabolic target for radiomitigation. U19 AI068021/CMCR/Pilot project	NIAID	\$75,000	

Co-Investigator on Grants

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2003-2012	Regulation of Autophagy in Dopaminergic Cell Death			

2005-2010	Mitochondrial Targeting Against Radiation Damage, CMRC; U19 AI068021	NIAID	\$144,938	20.0
2005-2008	Oxidative Lipidomics of Programmed Cell Clearance: from Nanotubes to Humans, RGP0019/2005-C	HFSP	\$90,909	5.0
2007-2011	Lung Oxidative Stress Inflammation by Carbon Nanotubes,	NIOSH	\$249,514	25.0
2008-2013	Oxidative Lipidomics of pulmonary endothelial apoptosis in hyperoxia, HL070755	NHLBI	\$222,440	15.0
2009-2011	Irradiation Damage and Protection of Pulmonary Endothelium Oxidative Lipidomics, HL094488	NHLBI	\$250,000	25.0
2010-2015	Investigation and Mitigation of Carbon Nanomaterial Toxicity, ES 019304	NIEHS	\$32,000	10.0
2011-2016	Carbon Nanotube Biodegradation by Neutrophil Myeloperoxidase, OH008282	NIOSH	\$250,000	55.0
2011-2013	Phosphatidylserine and its peroxidized and Lp-PLA2-hydrolyzed species on cell surface: Role in clearance of apoptotic cells by macrophages.	GSK	\$112,382	20.0
2013-2018	Intra- and Extra-Cellular Signaling by Cardiolipin in Lung Injury, PO1 HL114453	NHLBI	\$188,574	35.0
2018-2022	Caspase-2 and inflammasome activation in trauma-hemorrhagic shock, R01GM102146	NIH	\$5,614	7.0
2019-2024	Ferroptosis as a Death Mechanism in Lung Injury, PO1HL114453-06	NIH	\$150,519	25.0

2020-2025	Protein-oxidized phospholipid interactions determine epithelial cell fate and asthma control. 1R01AI145406-01A1	NIH	\$74,620	25.0
2020-2022	Redox Lipidomics Development of Ferroptosis Biomarkers in Cancer	Leidos Biomedical Research, Inc.		10.0
2020-2022	Controlling monolysocardiolipin/cytochrome c peroxidase complexes in Barth syndrome, RO1 GM134715	NIH		
2020-2025	Novel Selective Inhibitors of Pro-Ferroptotic Activity of 15-LOX as Next Generation of Radiomitigators, U01 AI156924	NIH		
2020-2025	Radiation Mitigators Targeting Regulated Necrosis Pathways of Parthanatos and Pyroptosis, U01AI156923	NIH		

Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
March, 1999	Bcl-2 enhances redox impact of neocarzinostatin in PC12 rat pheochromocytoma cells.	38 th Annual Meeting of the Society of Toxicology, New Orleans
March, 2006	Nitrosative stress induces phosphatidylserine externalization: Signaling role in phagocytosis.	45 th Annual Meeting, Society of Toxicology, San Diego, CA
December, 2007	Oxidative lipidomics of γ -irradiation induced injury	Annual CMCRC Meeting, University of Pittsburgh.
February, 2007	Oxidative lipidomics of gamma-irradiation induced intestinal injury	Dean Junior Faculty Seminar, GSPH
March, 2008	Oxidative lipidomics of hyperoxic lung injury	47 th Annual Meeting, Society of Toxicology, Seattle, WA.

July, 2008	Oxidative Lipidomics of Neuronal Injury in vitro	CFRAH Saturday Seminar Series
March, 2009	Oxidative lipidomics of acute lung injury induced by hyperoxia and gamma-irradiation.	48 th Annual Meeting for Society of Toxicology, Baltimore, MA.
March, 2010	Oxidative lipidomics of gamma-irradiation induced lung injury.	49 th Annual Meeting for Society of Toxicology, Salt Lake City, UT.
December, 2010	Phosphatidylserine and its peroxidized and Lp-PLA ₂ -hydrolyzed species on cell surface: Role in clearance of apoptotic cells by macrophages.	CFRAH Saturday Seminar Series
March, 2011	Oxidative Lipidomics Reveals Selective (but not Random) Pulmonary Phospholipid Peroxidation After Inhalation of Carbon Nanotubes	50 th Annual Meeting for Society of Toxicology, Washington DC.
March, 2012	Headache from oxygenated octadecanoids, eicosanoids and docosanoids	CFRAH Saturday Seminar Series
March, 2012	Development of a protocol for identification and quantitation of oxygenated phospholipid molecular species in cells and tissues.	CFRAH Saturday Seminar Series
June, 2012	Cardiolipin - a biomarker of mitochondrial dysfunction associated with Parkinson Disease	CFRAH Saturday Seminar Series
October, 2013	A Novel Mitochondrial Pathway for Biosynthesis of Lipid Mediators Via Cardiolipin Peroxidation by Cytochrome c.	CFRAH Saturday Seminar Series
October, 2014	Cardiolipin Crossroads: Oxidation, Hydrolysis, (Re)acylation.	CFRAH Saturday Seminar Series
February, 2015	LC-MS Characterization of Ferroptotic Lipid Signals	International Workshop Munich/Padova/Pittsburgh /Warwick, NewPort Beach Hotel, Sunny Isles, Florida
April, 2015	Desperate search for death signal	CFRAH Saturday Seminar Series

April, 2016	New MS technology: Orbitrap Fusion Lumos	CFRAH Saturday Seminar Series
June, 2016	Lipidomics of small intestine.	CMCR onsite visit meeting
March, 2018	Improvement of lipid isolation and separation. Solid phase extraction and oxidative lipidomics.	CFRAH Saturday Seminar Series
April, 2018	Oxidative lipidomics of irradiated ileum.	CFRAH Saturday Seminar Series
October, 2019	High-resolution LC-MS deciphers lipid signal of ferroptosis	2019 North America mass spec User's meeting, ThermoFisher, October 30, 2019, Wyndam Pittsburgh University Center, Pittsburgh.
May, 2020	New pathway of generation lysophospholipids, phosphatidic acid and endocannabinoid 2-arachidonoyl-glycerol during inflammation.	CFRAH seminars series
February, 2021	"Every weakness contains within itself a strength". Discovery of new metabolic pathways and unknown signaling functions of ancient phospholipids - plasmalogens.	EOH seminar

Other Research and Training Activities

Date	Position	Description of Activity
2007-2008	Trainee	Radiation Biology program funded by CMCR/NIAID

PUBLICATIONS

Refereed Articles

1. **Tiurina IuIu (Tyurina YY)**, Tiurin VA, Avrova NF, Kagan VE. [Ganglioside-dependent factor inhibiting lipid peroxidation in synaptosomal membranes]. *Biulleten' eksperimental'noi biologii i meditsiny*. 1990; 109 (6):553-5, [Article in Russian]. PMID: 2397291.
2. Tiurin VA, Kuznetsova LA, **Tiurina IuIu (Tyurina YY)**, Erin AN, Avrova NF, Pertseva MN, Kagan VE. [Participation of gangliosides in protection of beta adrenergic receptors from damaging effect induced by lipid peroxidation in

- synaptosome membranes]. *Biulleten' eksperimental'noi biologii i meditsiny*. 1991; 111 (6):597-9, [Article in Russian]. PMID:1654162.
3. Tyurin VA, **Tyurina YY**, Avrova NF. Ganglioside-dependent factor, inhibiting lipid peroxidation in rat brain synaptosomes. *Neurochemistry international*. 1992; 20 (3):401-7. PMID: 1304335.
 4. Tiurin VA, Bagrov AIa, Fedorova OV, Zhabko EP, **Tiurina Iulu (Tyurina YY)**, Avrova NF, Das DK, Kagan VE. [Ganglioside protection of the erythrocyte membranes in myocardial ischemia]. *Biulleten' eksperimental'noi biologii i meditsiny*. 1992; 114 (10):366-8, [Article in Russian]. PMID: 1337704.
 5. Tiurin VA, Erin AN, **Tiurina Iulu (Tyurina YY)**, Avrova NF, Kagan VE. [Ganglioside participation in the regulation of free-radical reactions in brain membranes]. *Biulleten' eksperimental'noi biologii i meditsiny*. 1992; 114 (12):592-4, [Article in Russian]. PMID: 1292681.
 6. **Tyurina YY**, Tyurin VA, Avrova NF. Ganglioside GM1 protects cAMP 3'5':phosphodiesterase from inactivation caused by lipid peroxidation in brain synaptosomes of rats. *Molecular and chemical neuropathology*. 1993; 19 (3):205-17. PMID: 8397583.
 7. Avrova NF, Nalivaeva NN, Tiurin VA, Vetosh AN, **Tiurina Iulu (Tyurina YY)**, Baev VA, Vasil'va IV. [Ability of gangliosides to improve the functional state of the body and normalize the biochemical structure of cell membranes in hypoxia]. *Fiziologiya cheloveka*. 1993;19(6):109-20, [Article in Russian]. PMID: 8138079.
 8. Avrova NF, Ivanova VP, Tiurin VA, Gamalei IA, Kliubin IV, Shchepetkin IA, Borunov EV, **Tiurina Iulu (Tyurina YY)**. [Modulation by super-low concentrations of ganglioside GM1 of oxidative burst in murine macrophages and human neutrophils]. *Biulleten' eksperimental'noi biologii i meditsiny*. 1994; 117 (1):44-6, [Article in Russian]. PMID: 8193328.
 9. **Tyurina YY**, Tyurin VA, Yalowich JC, Quinn PJ, Claycamp HG, Schor NF, Pitt BR, Kagan VE. Phenoxyl radicals of etoposide (VP-16) can directly oxidize intracellular thiols: protective versus damaging effects of phenolic antioxidants. *Toxicology and Applied Pharmacology*. 1995; 131 (2):277-88. PMID: 7716769.
 10. Elsayed NM, **Tyurina YY**, Tyurin VA, Menshikova EV, Kisin ER, Kagan VE. Antioxidant depletion, lipid peroxidation, and impairment of calcium transport induced by air-blast overpressure in rat lungs. *Experimental Lung Research*. 1996;22(2):179-200. PMID: 8706635.
 11. Tiurin VA, Arduini A, **Tiurina Iulu (Tyurina YY)**, Sokolova TV, Furaev VV, Rychkova MP, Arrigoni-Martelli E. [The repair of the membrane lipid bilayer in oxidative stress: phosphatidylethanolamine reacylation in synaptosome, photoreceptor and erythrocyte membranes]. *Zhurnal evoliutsionnoi biokhimii i fiziologii*. 1996;32(3):248-55, [Article in Russian] PMID: 9148613.

12. Tyurin VA, Carta G, **Tyurina YY**, Banni S, Day BW, Corongiu FP, Kagan VE. Peroxidase-catalyzed oxidation of beta-carotene in HL-60 cells and in model systems: involvement of phenoxyl radicals. *Lipids*. 1997; 32 (2):131-42. PMID: 9075202.
13. **Tyurina YY**, Tyurin VA, Carta G, Quinn PJ, Schor NF, Kagan VE. Direct evidence for antioxidant effect of Bcl-2 in PC12 rat pheochromocytoma cells. *Archives of biochemistry and biophysics*. 1997; 344 (2):413-23. PMID: 9264556.
14. Pitt BR, Schwarz M, Woo ES, Yee E, Wasserloos K, Tran S, Weng W, Mannix RJ, Watkins SA, **Tyurina YY**, Tyurin VA, Kagan VE, Lazo JS. Overexpression of metallothionein decreases sensitivity of pulmonary endothelial cells to oxidant injury. *The American Journal of Physiology*. 1997; 273:L856-65. PMID: 9357862.
15. Osaka K, **Tyurina YY**, Dubey RK, Tyurin VA, Ritov VB, Quinn PJ, Branch RA, Kagan VE. Amphotericin B as an intracellular antioxidant: protection against 2,2'-azobis(2,4-dimethylvaleronitrile)-induced peroxidation of membrane phospholipids in rat aortic smooth muscle cells. *Biochemical Pharmacology*. 1997; 54 (8):937-45. PMID: 9354594.
16. Tyurin VA, **Tyurina IuIu (Tyurina YY)**, Sokolova TV, Arduini A. [The participation of palmitic acid in repair of synaptosome membranes during oxidative stress. The role of palmitoylcarnitine in adaptation mechanism]. *Zhurnal evoliutsionnoi biokhimii i fiziologii*, 1998; 34(1):3-10, [Article in Russian]. PMID: 9720146.
17. **Tyurina IuIu (Tyurina YY)**, Tyurin VA, Furaev VV, Rychkova MP, Etingof RN. [The role of saturated and unsaturated fatty acids in the repair of the lipid bilayer of photoreceptor membranes in photodamage: the possible mechanism of adaptation]. *Zhurnal evoliutsionnoi biokhimii i fiziologii*. 1998; 34(2):185-90, [Article in Russian] PMID: 9703665.
18. Kagan VE, **Tyurina YY**, Witt E. Role of coenzyme Q and superoxide in vitamin E cycling. *Sub-cellular biochemistry*. 1998; 30:491-507. PMID: 9932527.
19. Kagan VE, Ritov VB, **Tyurina YY**, Tyurin VA. Sensitive and specific fluorescent probing of oxidative stress in different classes of membrane phospholipids in live cells using metabolically integrated cis-parinaric acid. *Methods in molecular biology (Clifton, N.J.)*. 1998; 108:71-87. PMID: 9921517.
20. Day BW, Bergamini S, **Tyurina YY**, Carta G, Tyurin VA, Kagan VE. beta-Carotene. An antioxidant or a target of oxidative stress in cells? *Sub-cellular Biochemistry*. 1998; 30:209-17. PMID: 9932516.
21. Gorbunov NV, **Tyurina YY**, Salama G, Day BW, Claycamp HG, Argyros G, Elsayed NM, Kagan VE. Nitric oxide protects cardiomyocytes against tert-butyl hydroperoxide-induced formation of alkoxyl and peroxy radicals and peroxidation of phosphatidylserine. *Biochemical and Biophysical Research Communications*. 1998; 244 (3):647-51. PMID: 9535719.
22. Fabisiak JP, Kagan VE, **Tyurina YY**, Tyurin VA, Lazo JS. Paraquat-induced phosphatidylserine oxidation and apoptosis are independent of activation of

- PLA2. The American Journal of Physiology. 1998; 274:L793-802. PMID: 9612295.
23. Kagan VE, Arroyo A, Tyurin VA, **Tyurina YY**, Villalba JM, Navas P. Plasma membrane NADH-coenzyme Q0 reductase generates semiquinone radicals and recycles vitamin E homologue in a superoxide-dependent reaction. FEBS Letters. 1998 May; 428:43-6. PMID: 9645471.
 24. **Tiurina Iulu (Tyurina YY)**, Sokolova TV, Gonchar VS, Furaev VV, Avrova NF, Tiurin VA. [Inhibition of Na, K-adenosine triphosphatase by glutamate in cerebral cortex synaptosomes. Protective effect of alpha-tocopherol and superoxide dismutase]. Zhurnal evoliutsionnoi biokhimii i fiziologii. 1998; 34(3):325-32, [Article in Russian]. PMID: 9783381
 25. Tyurin VA, **Tyurina YY**, Quinn PJ, Schor NF, Balachandran R, Day BW, Kagan VE. Glutamate-induced cytotoxicity in PC12 pheochromocytoma cells: role of oxidation of phospholipids, glutathione and protein sulfhydryls revealed by bcl-2 transfection. Brain Research. Molecular Brain Research. 1998; 60 (2):270-81. PMID: 9757062.
 26. Kagan VE, **Tyurina YY**. Recycling and redox cycling of phenolic antioxidants. Annals of The New York Academy of Sciences. 1998; 854:425-34. PMID: 9928449.
 27. Day BW, Tyurin VA, **Tyurina YY**, Liu M, Facey JA, Carta G, Kisin ER, Dubey RK, Kagan VE. Peroxidase-catalyzed pro- versus antioxidant effects of 4-hydroxytamoxifen: enzyme specificity and biochemical sequelae. Chemical Research in Toxicology. 1999; 12 (1):28-37. PMID: 9894015.
 28. Dubey RK, **Tyurina YY**, Tyurin VA, Gillespie DG, Branch RA, Jackson EK, Kagan VE. Estrogen and tamoxifen metabolites protect smooth muscle cell membrane phospholipids against peroxidation and inhibit cell growth. Circulation Research. 1999; 84 (2):229-39. PMID: 9933255.
 29. Fabisiak JP, Tyurin VA, **Tyurina YY**, Borisenko GG, Korotaeva A, Pitt BR, Lazo JS, Kagan VE. Redox regulation of copper-metallothionein. Archives of Biochemistry and Biophysics. 1999; 363 (1):171-81. PMID: 10049512.
 30. Avrova NF, Shestak KI, Zakharova IO, Sokolova TV, **Tiurina Iulu (Tyurina YY)**, Tiurin VA. [The antioxidant prevention of disorders in calcium ion metabolism under the action of glutamate on the synaptosomes of the rat cerebral cortex]. Rossiiskii fiziologicheskii zhurnal imeni I.M. Sechenova / Rossiiskaia akademiia nauk. 1999; 85 (4):488-96 [Article in Russian]. PMID: 10513381.
 31. Shvedova AA, **Tyurina YY**, Gorbunov NV, Tyurin VA, Castranova V, Kommineni C, Ojimba J, Gandley R, McLaughlin MK, Kagan VE. tert-butyl hydroperoxide/hemoglobin-induced oxidative stress and damage to vascular smooth muscle cells: different effects of nitric oxide and nitrosothiols. Biochemical Pharmacology. 1999; 57 (9):989-1001. PMID: 10796069.
 32. Schor NF, **Tyurina YY**, Fabisiak JP, Tyurin VA, Lazo JS, Kagan VE. Selective oxidation and externalization of membrane phosphatidylserine: Bcl-2-induced potentiation of the final common pathway for apoptosis. Brain research. 1999;

- 831:125-30. PMID: 10411991.
33. Schor NF, **Tyurina YY**, Tyurin VA, Kagan VE. Differential membrane antioxidant effects of immediate and long-term estradiol treatment of MCF-7 breast cancer cells. *Biochemical and Biophysical Research Communications*. 1999; 260 (2):410-5. PMID: 10403783.
 34. Kagan VE, Yalowich JC, Borisenko GG, **Tyurina YY**, Tyurin VA, Thampatty P, Fabisiak JP. Mechanism-based chemopreventive strategies against etoposide-induced acute myeloid leukemia: free radical/antioxidant approach. *Molecular pharmacology*. 1999; 56 (3):494-506. PMID: 10462537.
 35. Goldman R, Claycamp GH, Sweetland MA, Sedlov AV, Tyurin VA, Kisin ER, **Tyurina YY**, Ritov VB, Wenger SL, Grant SG, Kagan VE. Myeloperoxidase-catalyzed redox-cycling of phenol promotes lipid peroxidation and thiol oxidation in HL-60 cells. *Free Radical Biology & Medicine*. 1999; 27:1050-63. PMID: 10569638.
 36. Fabisiak JP, Tyurin VA, **Tyurina YY**, Sedlov A, Lazo JS, Kagan VE. Nitric oxide dissociates lipid oxidation from apoptosis and phosphatidylserine externalization during oxidative stress. *Biochemistry*. 2000; 39 (1):127-38. PMID: 10625487.
 37. Schor NF, Rudin CM, Hartman AR, Thompson CB, **Tyurina YY**, Kagan VE. Cell line dependence of Bcl-2-induced alteration of glutathione handling. *Oncogene*. 2000; 19 (3):472-6. PMID: 10656697.
 38. Shvedova AA, Kommineni C, Jeffries BA, Castranova V, **Tyurina YY**, Tyurin VA, Serbinova EA, Fabisiak JP, Kagan VE. Redox cycling of phenol induces oxidative stress in human epidermal keratinocytes. *The Journal of Investigative Dermatology*. 2000; 114 (2):354-64. PMID: 10651998.
 39. Kagan VE, Kuzmenko AI, Shvedova AA, Kisin ER, **Tyurina YY**, Yalowich JC. Myeloperoxidase-catalyzed phenoxyl radicals of vitamin E homologue, 2,2,5,7,8-pentamethyl-6-hydroxychromane, do not induce oxidative stress in live HL-60 cells. *Biochemical and Biophysical Research Communications*. 2000; 270 (3):1086-92. PMID: 10772954.
 40. Kagan VE, Fabisiak JP, Shvedova AA, **Tyurina YY**, Tyurin VA, Schor NF, Kawai K. Oxidative signaling pathway for externalization of plasma membrane phosphatidylserine during apoptosis. *FEBS Letters*. 2000; 477:1-7. PMID: 10899301.
 41. **Tyurina YY**, Shvedova AA, Kawai K, Tyurin VA, Kommineni C, Quinn PJ, Schor NF, Fabisiak JP, Kagan VE. Phospholipid signaling in apoptosis: peroxidation and externalization of phosphatidylserine. *Toxicology*. 2000; 148:93-101. PMID: 10962127.
 42. Avrova NF, Shestak KI, Zakharova IO, Sokolova TV, **Tyurina YY**, Tyurin VA. The use of antioxidants to prevent glutamate-induced derangement of calcium ion metabolism in rat cerebral cortex synaptosomes. *Neuroscience and behavioral physiology* 2000;30(5):535-41. PMID: 11037144.

43. Tyurin VA, **Tyurina YY**, Borisenko GG, Sokolova TV, Ritov VB, Quinn PJ, Rose M, Kochanek P, Graham SH, Kagan VE. Oxidative stress following traumatic brain injury in rats: quantitation of biomarkers and detection of free radical intermediates. *Journal of Neurochemistry*. 2000; 75 (5):2178-89. PMID: 11032908.
44. Kawai K, Liu SX, Tyurin VA, **Tyurina YY**, Borisenko GG, Jiang JF, St Croix CM, Fabisiak JP, Pitt BR, Kagan VE. Antioxidant and antiapoptotic function of metallothioneins in HL-60 cells challenged with copper nitrilotriacetate. *Chemical research in toxicology*. 2000; 13 (12):1275-86. PMID: 11123969.
45. Vladimirov YA, Arroyo A, Taylor JM, **Tyurina YY**, Matura T, Tyurin VA, Kagan VE. Quinolizin-coumarins as physical enhancers of chemiluminescence during lipid peroxidation in live HL-60 cells. *Archives of Biochemistry and Biophysics*. 2000; 384 (1):154-62. PMID: 11147826.
46. Shvedova AA, **Tyurina YY**, Tyurin VA, Kikuchi Y, Kagan VE, Quinn PJ. Quantitative analysis of phospholipid peroxidation and antioxidant protection in live human epidermal keratinocytes. *Bioscience reports*. 2001; 21 (1):33-43. PMID: 11508692.
47. Liu S, Kawai K, Tyurin VA, **Tyurina YY**, Borisenko GG, Fabisiak JP, Quinn PJ, Pitt BR, Kagan VE. Nitric oxide-dependent pro-oxidant and pro-apoptotic effect of metallothioneins in HL-60 cells challenged with cupric nitrilotriacetate. *The Biochemical Journal*. 2001; 354:397-406. PMCID: PMC1221668. PMID: 11171119.
48. Kagan VE, Kozlov AV, **Tyurina YY**, Shvedova AA, Yalowich JC. Antioxidant mechanisms of nitric oxide against iron-catalyzed oxidative stress in cells. *Antioxidants & Redox Signaling*. 2001; 3 (2):189-202. PMID: 11396475.
49. Greenberger JS, Kagan VE, Pearce L, Borisenio G, **Tyurina Y**, Epperly MW. Modulation of redox signal transduction pathways in the treatment of cancer. *Antioxidants & Redox Signaling*. 2001; 3 (3):347-59. PMID: 11491649.
50. Tyurin VA, Liu SX, **Tyurina YY**, Sussman NB, Hubel CA, Roberts JM, Taylor RN, Kagan VE. Elevated levels of S-nitrosoalbumin in preeclampsia plasma. *Circulation Research*. 2001; 88 (11):1210-5. PMID: 11397789.
51. Kagan VE, Kuzmenko AI, **Tyurina YY**, Shvedova AA, Matura T, Yalowich JC. Pro-oxidant and antioxidant mechanisms of etoposide in HL-60 cells: role of myeloperoxidase. *Cancer Research*. 2001; 61 (21):7777-84. PMID: 11691792.
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53. **Tyurina YY**, Tyurin VA, Liu SX, Smith CA, Shvedova AA, Schor NF, Kagan VE. Phosphatidylserine peroxidation during apoptosis. A signaling pathway for phagocyte clearance. *Sub-cellular biochemistry*. 2002; 36:79-96. PMID: 12037991.

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55. Behringer W, Safar P, Kentner R, Wu X, Kagan VE, Radovsky A, Clark RS, Kochanek PM, Subramanian M, Tyurin VA, **Tyurina YY**, Tisherman SA. Antioxidant Tempol enhances hypothermic cerebral preservation during prolonged cardiac arrest in dogs. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*. 2002; 22 (1):105-17. PMID: 11807400.
56. Bayir H, Kagan VE, **Tyurina YY**, Tyurin V, Ruppel RA, Adelson PD, Graham SH, Janesko K, Clark RS, Kochanek PM. Assessment of antioxidant reserves and oxidative stress in cerebrospinal fluid after severe traumatic brain injury in infants and children. *Pediatric research*. 2002; 51 (5):571-8. PMID: 11978879.
57. Koty PP, **Tyurina YY**, Tyurin VA, Li SX, Kagan VE. Depletion of Bcl-2 by an antisense oligonucleotide induces apoptosis accompanied by oxidation and externalization of phosphatidylserine in NCI-H226 lung carcinoma cells. *Molecular and cellular biochemistry*. 2002;234-235(1-2):125-33. PMID: 12162425.
58. Shvedova AA, **Tyurina JY**, Kawai K, Tyurin VA, Kommineni C, Castranova V, Fabisiak JP, Kagan VE. Selective peroxidation and externalization of phosphatidylserine in normal human epidermal keratinocytes during oxidative stress induced by cumene hydroperoxide. *The Journal of Investigative Dermatology*. 2002; 118 (6):1008-18. PMID: 12060396.
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81. Huang Z, **Tyurina Y**, Jiang AND Kagan VE, Cheikhi A, Tokarska-Schlattner M, Boissan M, Lacombe M, Epanand R, Schlattner U, Epanand RM, Kagan VE. EXTERNALIZATION OF CARDIOLIPIN AS AN "EAT-ME" MITOPHAGEAL SIGNAL IS FACILITATED BY NDPK-D. Poster presented at: 58th Biophysical Annual Meeting; 2014 Feb 15-19; San Francisco, California.
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83. Kagan VE, Jiang AND Kagan VE, Huang Z, Tyurin VA, **Tyurina Y**, Stolz D, Watkins S, Mallampalli R. Signaling Role of Cardiolipin Externalization in Elimination of Damaged Mitochondria in Lung Epithelial Cells. Poster presented at: 53rd Annual Meeting for Society of Toxicology; [abstract]. In: The Toxicologist, v.138, Issue 1, 2014 Mar 23-27; Phoenix, Arizona.
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85. **Tyurina Y**, Polimova A, Maciel E, Tyurin VA, Kapralova V, Winnica D, Vikulina A, Domingues R, Sanders L, Bayir H, Greenamyre T, Kagan VE. Analysis of Cardiolipins in Substantia Nigra and Plasma of Rotenone-Treated Rats: Implication for Mitochondrial Dysfunction in Parkinson's Disease. [abstract]. In: The Toxicologist: Supplement to Toxicological Sciences; (2015); V. 144, Issue 1, Abstract 1533, p. 329.
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87. **Tyurina Yulia**, Amoscato Andrew, Tyurin Vladimir, Qu Feng, Mao Gaowei, Hulya Bayir, Valerian Kagan. Identification and quantification of oxygenated arachidonoyl- and adrenoyl-phosphatidylethanolamines as ferroptotic death signals using oxidative phospholipidomics. 64th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics June 5 - 9, 2016, San Antonio, TX.
88. **Yulia Y Tyurina**, Vladimir A Tyurin, Michael, Epperly, Simon Watkins, Joel Greenberger, Hulya Bayir, Valerian E Kagan. Identification and quantification of hepoxilin A3-phosphatidylethanolamine in ileum of mice exposed to total body irradiation using oxidative phospholipidomics. 65th ASMS Conference on Mass Spectrometry and Allied Topics June 4 - 8, 2017, Indianapolis, IN.
89. Feng Qu, **Yulia Y Tyurina**, J. Zhao, Gaowei Mao, Vladimir A Tyurin, Tamil Anthony Muthu, Andy A. Amoscato, David R Emler, John A Kellum, Sally E Wenzel, Hulya Bayir, Valerian E Kagan. Accumulation of oxygenated phosphatidylethanolamines as ferroptotic death signals characterized by oxidative phospholipidomics. 65th ASMS Conference on Mass Spectrometry and Allied Topics June 4 - 8, 2017, Indianapolis, IN.
90. Vladimir A. Tyurin, **Yulia Y Tyurina**, Weinji Lou, Feng Qu, Jenney Liu, Maik Hüttemann, Dariush Mohammadyani, Michael A Frasso, Peter Wipf, Hulya Bayir, Miriam L Greenberg and Valerian E Kagan. Contribution of biosynthesis vs remodeling to the diversity of cardiolipins in genetically and nutritionally manipulated yeast cells: differential LC-MS assessments, 65th ASMS Conference on Mass Spectrometry and Allied Topics, June 4 - 8, 2017, Indianapolis, IN.
91. Gaowei Mao, Feng Qu, Jose Pedro Angeli, Claudette St Croix, Haider Dar, Vladimir Tyurin, Vladimir Ritov, Alexandr Kapralov, Andrew Amoscato, Tamil Anthony Muthu, Dariush Mohammadyani, Qin Yang, Brent Stockwell, **Yulia Tyurina**, Marcus Conrad, Hulya Bayir and Valerian Kagan. (2017) Tocopherols and tocotrienols prevent lipoxygenase-driven phospholipid oxidation in ferroptosis. Experimental Biology 2017. April 22-26, 2017. Chicago, IL.
92. **Tyurina Y**, Zhao J, St. Croix CM, Watkins SC, Tyurin VA, Anthony Muthu TS, Amoscato AA, Haider D, Rosenbaum J, VanDemark AP, Bayir H, Wenzel SE, Kagan VE. PEBP1 enables 15-lipoxygenase 1 to generate ferroptotic cell death signals in primary human airway epithelial cells. LC/MS study. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA.

93. Tyurin VA, Ting HC, Lou W, Reynolds CA, **Tyurina YY**, Yu W, Liang Z, Stoyanovsky DA, Greenberger JS, Bayir H, Anthony-muthu TS, Greenberg ML and Kagan VE. Differential LC-MS study of CLD1-driven diversification of cardiolipins in $\Delta 12$ -desaturase transfected yeast cells. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA.
94. Tyurin V, **Tyurina Y**, Amoscato AA, Sparvero LJ, Epperly MW, St. Croix CM, Watson AM, St. Croix CM, Watkins SC, Greenberger JS, Bayir H, Kagan VE. An inhibitor of iPLA₂ γ , R-BEL, prevents lipid mediator generation in the ileum and leads to radiomitigation after total body irradiation. 67th Conference on Mass Spectrometry and Allied Topics, June 2 - 6, 2019, Atlanta, GA.
95. **Tyurina YY**, Dar H, Tyurin VA, Amoscato AA, Pilewski JM, Mallampalli RK, Bayir H, Kagan VE. Differential *P. aeruginosa* lipoxygenase (pLoxA) generates ferroptotic cell death signals in host human bronchial epithelial cells: LC/MS study. 67th Conference on Mass Spectrometry and Allied Topics, June 2 - 7, 2019, Atlanta, GA.

Presentations

1. Avrova NF, **Tyurina Y**, Tyurin VA, Kagan VE. Ganglioside-dependent factor, inhibiting lipid peroxidation in rat brain synaptosomal membranes. Presented at: Conference: "Regulation of Free Radical Reactions" (Biomedical Aspects); 1989; Varna, Bulgaria.
2. **Tyurina Y**, Antipov AD, Tyurin VA, Avrova NF. Effect of gangliosides on the monoamine oxidase activity in rat brain synaptosomes. Presented at: Conference: "The Mechanism of Mediator and Hormone Effect on the Effector Cells"; 1989 Sep 25-28; Suzdal, Russia.
3. Kuznetzova LA, Tyurin VA, **Tyurina Y**, Pertseva MN, Avrova NF. Ganglioside GM1 protects beta-adrenoreceptor from desensitization caused by induction of lipid peroxidation in rat brain synaptosomes. Presented at: 8th General Meeting of European Society for Neurochemistry; 1990 Jul; Leipzig, Germany.
4. **Tyurina Y**, Tyurin VA, Avrova NF. Preincubation of rat synaptosomes with ganglioside GM1 protects cAMP-phosphodiesterase against inactivation by induction of lipid peroxidation. Presented at: 8th General Meeting of European Society for Neurochemistry; 1990 Jul; Leipzig, Germany.
5. Tyurin VA, **Tyurina Y**, Avrova NF. Ganglioside-dependent factor, inhibiting lipid peroxidation in nervous system. Presented at: 8th General Meeting of European Society for Neurochemistry; 1990 Jul; Leipzig, Germany.
6. Avrova NF, Tyurin VA, **Tyurina Y**. Ganglioside-dependent factor, inhibiting lipid peroxidation: Evidences possible protein kinase nature. Presented at: Satellite Symposium "Clinical and Behavioral Aspects of Ganglioside Research" of 8th General Meeting of European Society for Neurochemistry; 1990 July; Magdeburg, Germany.

7. Avrova NF, Tyurin VA, **Tyurina Y**, Denisova NA. Preincubation of synaptosomes with gangliosides protects membrane lipids, receptor and enzymes from oxidative destruction. Presented at: International Meeting; 1991 Feb 20-23; Università Cattolica del Sacro Cuore, Roma, Italy.
8. Tyurin VA, **Tyurina Y**, Avrova NF. Protection of cAMP-phosphodiesterase of brain synaptosomes against lipid peroxidation damage by nanomolar concentration of ganglioside GM1. Poster presented at: Constituent Congress International Society for Pathophysiology; 1991 May-Jun; Moscow, Russia.
9. Arduini A, Tyurin VA, **Tyurina Y**, Dottori S, Malojoni F, Ramsay RR. Carnitine palmitoyltransferase, a key modulator of the acyl-trafficking in the course of the secondary antioxidant response of oxidative stress. Presented at: VI Biennial Meeting of International Society of Free Radical Research "Free Radicals: From Basic Science of Medicine"; 1992 Jul; Torino, Italy.
10. **Tyurina Y**, Arduini A, Tyurin VA, Sokolova TV, Furaev VV, Rychkova MP, Arrigoni-Martelli E. Comparative study of phospholipid repair mechanism in membranes of synaptosomes, photoreceptors and erythrocytes during oxidative stress. Poster presented at: XI International Meeting for Evolutionary Physiology; 1996 Apr 22-26; St.-Petersburg, Russia.
11. Fabisiak JP, Lazo JS, **Tyurina Y**, Kagan VE. Selective oxidation of phosphatidylserine (PS) is associated with PS externalization and down-regulation of amino-phospholipid translocase during apoptosis following lipid peroxidation. Poster presented at: 2nd International Meeting on Oxygen/Nitrogen Radicals and Cellular Injury; 1996 Sep 7-10; Durham, NC.
12. **Tyurina Y**, Sokolova TV, Tyurin VA, Gonchar VS, Zakharova IO, Furaev VV, Avrova NF. Protective effect of alpha-tocopherol and superoxide dismutase against glutamate neurotoxicity. Poster presented at: 1st Russian Congress for Pathophysiology; 1996 Oct 17-19; Moscow, Russia.
13. Tyurin VA, **Tyurina Y**, Sokolova TV, Arrigoni-Martelli E, Arduini A. Repair of lipid bilayer of synaptosomal membrane during oxidative stress. Poster presented at: 1st Russian Congress for Pathophysiology; 1996 Oct 17-19; Moscow, Russia.
14. Shvedova AA, Kisin ER, Kommineni C, Schweger-Berry D, **Tyurina Y**, Tyurin VA, Castranova V, Kagan VE. Redox-cycling of occupational phenolic compounds induces oxidative stress and cytotoxicity in human epidermal keratinocytes. Poster presented at: SFRR Europe Winter Meeting "Bio-Flavonoids and Polyphenols in Health and Disease; 1999 Dec 2-5; Dinard - France.
15. Kagan VE, **Tyurina Y**, Tyurin V, Kawai K, Fabisiak JP, Kommineni C, Castranova V, Shvedova AA. Oxidative stress in keratinocytes: role in apoptotic signaling. Poster presented at: 39th Annual Meeting for Society of Toxicology; 2000 Mar; Philadelphia, PA.
16. Kawai K, **Tyurina Y**, Tyurin VA, Kagan VE, Fabisiak JP. Peroxidation and externalization of phosphatidylserine in plasma membrane of HL-60 cells during tert-butyl hydroperoxide-induced apoptosis: Role of cytochrome c. Poster presented at: 39th Annual Meeting for Society of Toxicology; 2000 Mar; Philadelphia, PA.

17. Bayir HB, Kagan VE, **Tyurina Y**, Tyurin VA, Ruppel RA, Adelson PD, Graham S.H., Janesko K, Clark RS, Kochanek PM. Assessment of antioxidant reserve and oxidative stress in cerebrospinal fluid after severe traumatic brain injury in infants and children. Poster presented at: Society of Critical Care Medicine 30th International Educational and Scientific Symposium; 2001.
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19. Tyurin VA, Liu SX, **Tyurina Y**, Hubel CA, Roberts JM, Taylor RN, Kagan VE. S-Nitrosylation of albumin is increased in preeclampsia. Poster presented at: 48th Annual Meeting for Society of Gynecological Investigation; 2001 Mar 14-17; Toronto, Ontario, Canada.
20. Ramirez RJ, Novak J, **Tyurina Y**, Kagan VE, Gandley RE, Hubel CA. Increased myogenic reactivity in small mesenteric arteries from ascorbic acid depleted, inherently scurvy-prone pregnant rats. Poster presented at: 48th Annual Meeting for Society of Gynecological Investigation; 2001 Mar 14-17; Toronto, Ontario, Canada.
21. Tyurin VA, Liu S, **Tyurina Y**, Hubel CA, Roberts J, Kagan VE. Nitrosative/oxidative stress in preeclampsia: Elevated S-nitrosylation of albumin. Poster presented at: 40th Annual Meeting for Society of Toxicology; 2001 Mar 25-29; San Francisco, CA.
22. Yalowich J, Kuzmenko O, **Tyurina Y**, Kisin ER, Shvedova AA, Kagan VE. Lipoate/ascorbate-dependent recycling prevents myeloperoxidase-catalyzed oxidation of vitamin E homologues' phenoxyl radical in live HL-60 cells. Poster presented at: 40th Annual Meeting for Society of Toxicology; 2001 Mar 25-29; San Francisco, CA.
23. Shvedova AA, **Tyurina Y**, Tyurin VA, Kisin ER, Kikuci Y, Quinn PJ, Kagan VE. Superoxide-induced reduction of coenzyme Q and its interaction with vitamin E synergistically protects human keratinocytes against oxidative stress. Poster presented at: 40th Annual Meeting for Society of Toxicology; 2001 Mar 25-29; San Francisco, CA.
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25. Kagan VE, **Tyurina Y**, Forrest KZ, Orchard TJ. Association between low molecular weight thiols and protein SH-groups and coronary artery disease (CAD) among type I diabetes patients. Poster presented at: 61st Scientific Sessions; 2001 Jun; Philadelphia, PA.
26. Arroyo A, Modriansky M, Serinkan FB, Bello RI, Matsura T, Tyurin VA, **Tyurina Y**, Kagan VE. NADPH oxidase in neutrophils: Murder & suicide. Poster presented at: 8th Annual Meeting for the Oxygen Society; 2001 Nov; Triangle Park, NC.

27. **Tyurina Y**, Arroyo A, Modriansky M, Serinkan F, Bello R, Matsuura T, Jiang J, Tyurin VA, Kagan VE. Phosphatidylserine oxidation is specially related to NADPH-oxidase induced apoptosis in DMSO-differentiated HL-60 cells. Presented at: International Symposium “Reactive oxygen and nitrogen species: Diagnostic, preventive, and therapeutic values”; 2002 Jul; St.-Petersburg, Russia.
28. Bayir H, Janesko K, Vagni V, Kagan VE, **Tyurina Y**, Kochanek PM. The contribution of inducible nitric oxide synthase to nitrosative stress after controlled cortical impact in mice. Presented at: 32nd Critical Care Congress; 2003 Jan 28-Feb 2; San Antonio, TX.
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30. Konduru N, **Tyurina Y**, Shvedovs A, Star A, Bayir H, Kagan VE. Phosphatidylserine Functionalization of Single Walled Carbon Nano-Tubes Confers a Recognition Signal for Macrophages. Presented at: 1st International Conference on Nanotoxicology: Biomedical Aspects.; 2006 Jan 29-Feb 1; Miami, FL.
31. Tyurin V, **Tyurina Y**, Potapovich A, Cai P, Konduru N, Bayir H, Fadeel B, Stoyanovsky D*, Shvedova A, Kagan VE. S-Nitrosation and phosphatidylserine externalization on the cell surface: A new signaling role in apoptosis and phagocytosis. Presented at: 1st International Conference on Nanotoxicology: Biomedical Aspects.; 2006 Jan 29-Feb 1; Miami, FL.
32. **Tyurina Y**, Osipov A, Tyurin V, Potapovich A, Kisin E, Schwegler-Berry D, Mercer R, Castranova V, Shvedova A, Kagan VE. Redox Effects of Single Walled Carbon Nanotubes on RAW264.7 Macrophages: Role of Iron. Presented at: 1st International Conference on Nanotoxicology: Biomedical Aspects.; 2006 Jan 29-Feb 1; Miami, FL.
33. Kagan VE, Tyurin V, Amoscato AA, Viner R, Miller K, **Tyurina Y**, Sparvero L, Kochanek PM, Bayir H. Mass-spectrometric analysis of phospholipids oxidation after experimental brain trauma. Presented at: Neuroscience 2006; 2006 Oct 14-18; Atlanta, GA.
34. Belikova N, Jiang AND Kagan VE, **Tyurina Y**, Zhao Q, Epperly M, Greenberger JS, Kagan VE. Redox catalysis by cytochrome c regulates irradiation induced apoptosis in HeLa cells. Presented at: 53rd Annual Meeting of the Radiation Research Society; 2006 Nov 6-9; Philadelphia, PA.
35. **Tyurina Y**. Oxidative lipidomics of gamma-irradiation induced intestinal injury. Presented at: Dean Junior Seminar, GSPH.; 2007 Feb; GSPH.
36. Feng W, **Tyurina Y**, Bayir H, Shvedova A, Kagan VE. Phosphatidylserine functionalization targets single-walled carbon nanotubes to microglial cells. Poster presented at: Neuroscience 2007; 2007 Nov 12-16; San Diego, CA.
37. **Tyurina Y**. Oxidative lipidomics of gamma-irradiation induced injury. Presented at: Annual CMCR Meeteing, University of Pittsburgh.; 2007 Dec; University of Pittsburgh.

38. Jiang J, Stoyanovsky D, Belikova NA, **Tyurina YY**, Zhao Q, Tungekar MA, Kapralova V, Huang Z, Mintz AH, Greenberger JS, Kagan VE. A Mitochondria-Targeted Triphenylphosphonium-Conjugated Nitroxide Functions as a Radioprotector/Mitigator. Poster presented at: 48th Annual Meeting of the Society of Toxicology; 2008 Mar 18-23; Philadelphia, PA.
39. Huang Z, **Tyurina Y**, Jiang AND Kagan VE, Cheikhi A, Tokarska-Schlattner M, Boissan M, Lacombe M, Epanand R, Schlattner U, Epanand RM, Kagan VE. EXTERNALIZATION OF CARDIOLIPIN AS AN “EAT-ME” MITOPHAGEAL SIGNAL IS FACILITATED BY NDPK-D. Poster presented at: 58th Biophysical Annual Meeting; 2014 Feb 15-19; San Francisco, California.
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41. Kagan VE, Jiang AND Kagan VE, Huang Z, Tyurin VA, **Tyurina Y**, Stolz D, Watkins S, Mallampalli R. Signaling Role of Cardiolipin Externalization in Elimination of Damaged Mitochondria in Lung Epithelial Cells. Poster presented at: 53rd Annual Meeting for Society of Toxicology; 2014 Mar 23-27; Phoenix, Arizona.
42. **Tyurina Y**, Polimova A, Maciel E, Tyurin VA, Kapralova V, Winnica D, Vikulina A, Domingues R, Sanders L, Bayir H, Greenamyre T, Kagan VE. Analysis of Cardiolipins in Substantia Nigra and Plasma of Rotenone-Treated Rats: Implication for Mitochondrial Dysfunction in Parkinson’s Disease. 54th Annual Meeting for Society of Toxicology; 2014 Mar 22-26; San Diego, California
43. Tyurin VA, Polimova A, Sanders L, Greenamyre T, **Tyurina Y**, Kagan VE. Aberrant Lipid Metabolism in Rotenone-Induced Mitochondrial Dysfunction. 54th Annual Meeting for Society of Toxicology; 2014 Mar 22-26; San Diego, California.
44. **Tyurina Y**, Amoscato A, Tyurin V, Qu F, Mao G, Bayir H, Kagan V. Identification and quantification of oxygenated arachidonoyl- and adrenoyl-phosphatidylethanolamines as ferroptotic death signals using oxidative phospholipidomics. 64th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics June 5 - 9, 2016, San Antonio, TX.
45. Mao G, Qu F, Angeli JP, St Croix C, Dar H, Tyurin V, Ritov V, Kapralov A, Amoscato A, Anthonymuthu T, Mohammadyani D, Yang Q, Stockwell B, **Tyurina Y**, Conrad M, Bayir H, Kagan V. (2017) Tocopherols and tocotrienols prevent lipoxygenase-driven phospholipid oxidation in ferroptosis. Experimental Biology 2017. April 22-26, 2017. Chicago, IL.
46. **Tyurina YY**, Tyurin VA, Epperly M, Watkins S, Greenberger J, Bayir H, Kagan V. Identification and quantification of hepoxilin A3-phosphatidylethanolamine in ileum of mice exposed to total body irradiation using oxidative phospholipidomics. 65th ASMS Conference on Mass Spectrometry and Allied Topics June 4 - 8, 2017, Indianapolis, IN.

47. Qu F, **Tyurina YY**, Zhao J, Mao G, Tyurin VA, Anthonymuthu T, Amoscato AA, Emler DR, Kellum JA, Wenzel SE, Bayir H, Kagan VE. Accumulation of oxygenated phosphatidylethanolamines as ferroptotic death signals characterized by oxidative phospholipidomics. 65th ASMS Conference on Mass Spectrometry and Allied Topics June 4 - 8, 2017, Indianapolis, IN.
48. Tyurin VA, **Tyurina YY**, Lou W, Qu F, Liu J, Hüttemann M, Mohammadyani D, Frasso MA, Wipf P, Bayir H, Greenberg ML, Kagan VE. Contribution of biosynthesis vs remodeling to the diversity of cardiolipins in genetically and nutritionally manipulated yeast cells: differential LC-MS assessments, 65th ASMS Conference on Mass Spectrometry and Allied Topics, June 4 - 8, 2017, Indianapolis, IN.
49. **Tyurina Y**, Zhao J, St. Croix CM, Watkins SC, Tyurin VA, Anthonymuthu TS, Amoscato AA, Haider D, Rosenbaum J, VanDemark AP, Bayir H, Wenzel SE, Kagan VE. PEBP1 enables 15-lipoxygenase 1 to generate ferroptotic cell death signals in primary human airway epithelial cells. LC/MS study. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA.
50. Tyurin VA, Ting HC, Lou W, Reynolds CA, **Tyurina YY**, Yu W, Liang Z, Stoyanovsky DA, Greenberger JS, Bayir H, Anthonymuthu TS, Greenberg ML and Kagan VE. Differential LC-MS study of CLD1-driven diversification of cardiolipins in $\Delta 12$ -desaturase transfected yeast cells. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA.
51. Ting HC, Zhai Y, **Tyurina YY**, Kapralov OO, Bayir H, He RR, and Kagan VE. LC-MS analysis of oxidized phosphatidylethanolamine in ferroptosis-sensitive PLA2G6 mutant human fibroblast. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA.
52. Tyurin V, **Tyurina Y**, Amoscato AA, Sparvero LJ, Epperly MW, St. Croix CM, Watson AM, St. Croix CM, Watkins SC, Greenberger JS, Bayir H, Kagan VE. An inhibitor of iPLA₂ γ , R-BEL, prevents lipid mediator generation in the ileum and leads to radiomitigation after total body irradiation. 67th Conference on Mass Spectrometry and Allied Topics, June 2 - 6, 2019, Atlanta, GA.
53. **Tyurina YY**, Dar H, Tyurin VA, Amoscato AA, Pilewski JM, Mallampalli RK, Bayir H, Kagan VE. Differential *P. aeruginosa* lipoxygenase (pLoxA) generates ferroptotic cell death signals in host human bronchial epithelial cells: LC/MS study. 67th Conference on Mass Spectrometry and Allied Topics, June 2 - 7, 2019, Atlanta, GA.
54. **Tyurina YY**, Tyurin VA Hussey GS Cramer MC Timashev PS, Badylak SF, Kagan VE. Lipidome-specific features of matrix-bound nanovesicles define their anti-inflammatory and macrophage M2-polarization capacities. ASMS 2020 Reboot, June 2020.

55. Sun WY, Tyurin VA, Mikulska-Ruminska K, Shrivastava IH, Anthony muthu TS, Zhai YJ, Pan MH, Gong HB, Lu DH, Sun J, Duan WJ, Korolev S, Abramov AY, Angelova PR, Miller I, Beharier O, Mao GW, Dar HH, Kapralov AA, Amoscato AA, Hastings TG, Greenamyre TJ, Chu CT, Sadovsky Y, Bahar I, Bayır H, **Tyurina YY**, He RR, Kagan VE. iPLA2 β Protects Cells Against Ferroptosis by Hydrolyzing the Lipid Signal of Death, 15-HpETE-PE: Relevance to Parkinson's Disease". AD/PD 2021, The 15th International Conference on Alzheimer's & Parkinson's Diseases. March 9-10, 2021, Barcelona, Spain.

SERVICE

Service to School and University

Years	Committee	Position
5/2014	The 2014 Dean's Day student research competition	Judge
2018-2021	Major Equipment Committee, EOH	Member
2020-2021	Research Excellence Committee, EOH	Member

Manuscript and Other Document/Publication Review

Dates	Journal Title
2007	Archives Biochem and Biophysics Bioscience Reports Cell Death and Differentiation Molecular Biology of the Cell
2008	Free radical Biology and Medicine Free Radical Research American Journal of Respiratory Cell and Molecular Biology
2009	Free Radical Biology and Medicine American Journal of Respiratory Cell and Molecular Biology Antioxidant & Redox Signaling Archives of Biochemistry and Biophysics Rejuvenation Research
2010	Free Radical Biology and Medicine OMICS PUBLISHING GROUP/OMICS American Journal of Physiology Rapid Communications in Mass Spectrometry
2011	American Journal of Physiology Journal of Lipid Research BBA – Biomembranes
2012	Chemistry and Physics of Lipids Cell Biochemistry and Biophysics BBA - Biomembranes

2013	Journal of Lipid Research Free Radical Biology and Medicine Journal of Mass Spectrometry
2014	Journal of Lipid Research
2015-2016	Journal of Lipids Free Radical Research BBA – Molecular and Cell Biology of Lipids Free Radical Biology and Medicine PLOS One International Journal of Molecular Science
2017	BBA - Molecular and Cell Biology of Lipid
2018	Journal of Lipid Research
2019	Free Radical Biology and Medicine Nature Communication
2020	Free Radical Biology and Medicine Frontiers in Oncology The Journal of Nutritional Biochemistry
2021	Nature Chemistry

Study Sections, Review Panels, and Advisory Boards

Date	Position	Organization and Nature of Activity
2009	External reviewer for the research project	The Austrian Science Fund (FWF)
2009	External peer reviewer for the application for a Senior Research Fellowship	Parkinson's Disease Society
2013	External reviewer for the research project	The Estonian Research Council
2016	External reviewer for the research project	Worldwide Cancer Research
2021	Reviewer for the research project	Children's Neuroscience Institute, University of Pittsburgh