CURRICULUM VITAE

Detcho A Stoyanovsky, Ph.D.
University of Pittsburgh

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Email Address:	das11@pitt.edu	**Home Address:**	111 Cabin Lane Pittsburgh, PA 15238
Home Phone:	(412) 963-0118	**Birthplace:**	Sofia, Bulgaria, EU
Citizenship:	USA		

EDUCATION and TRAINING

Graduate

1981 - 1986	Sofia University Sofia, Bulgaria, EU	M.S. Organic and Analytical Chemistry Prof. Ivan Nachev
1986 - 1991	Bulgarian Academy of Sciences Sofia, Bulgaria, EU	Ph.D. Biochemistry Prof. Tsanko Stoychev

Postgraduate

1991 - 1993	University of Connecticut Farmington, CT	Postdoc Biophysics and pharmacology of calcium channels Prof. Barbara E. Ehrlich
1993 - 1995	University of Pittsburgh Pittsburgh, PA	Postdoc Redox biochemistry of phenols Prof. Valerian E. Kagan
1995 - 1997	Mount Sinai School of Medicine New York	Postdoc Liver biochemistry Prof. Arthur I. Cederbaum

APPOINTMENTS and POSITIONS

Academic

1998 - 2001	Mount Sinai School of Medicine New York, NY	Research Assistant Professor Biochemistry
2002 - 2009	School of Medicine	Assistant Professor

	University of Pittsburgh Pittsburgh, PA	Surgery
2010 - Present	Graduate School of Public Health University of Pittsburgh Pittsburgh, PA	Research Associate Professor Environmental and Occupational Health

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

1996 - Present	Member, American Chemical Society
2011 - Present	Member, Radiation research society

PUBLICATIONS

Peer-reviewed Publications

1. Kagan VE, Bakalova RA, Rangelova DS, Stoyanovsky DA, Koynova GM, Wolinsky I. Oxidative stress leads to inhibition of calcium transport by sarcoplasmic reticulum in skeletal muscle. Proceedings of The Society For Experimental Biology and Medicine. Society For Experimental Biology and Medicine (New York, N.Y.). 1989 Apr; 190 (4):365-8. PMID: 2928349.
2. Stoyanovsky DA, Kagan VE, Packer L. Iron binding to alpha-tocopherol-containing phospholipid liposomes. Biochemical and Biophysical Research Communications. 1989 Apr 28; 160 (2):834-8. PMID: 2719700.
3. Serbinova EA, Kadiiska MB, Bakalova RA, Koynova GM, Stoyanovsky DA, Karakashev PC, Stoytchev TS, Wolinsky I, Kagan VE. Lipid peroxidation activation and cytochrome P-450 decrease in rat liver endoplasmic reticulum under oxidative stress. Toxicology Letters. 1989 May; 47 (2):119-23. PMID: 2741175.
4. Stoianovski DA, Kagan VE, Afanas'ev IB. [The effect of ascorbic acid on the breakdown of arachidonate 15-hydroperoxide in the presence of iron salts and complexes]. Biulleten' Eksperimental'noi Biologii I Meditsiny. 1990 Nov; 110 (11):475-8. PMID: 2128036.
5. Petkov VV, Stoianovski D, Petkov VD, Vyglenova Iu. [Lipid peroxidation changes in the brain in fetal alcohol syndrome]. Biulleten' eksperimental'noi biologii i meditsiny. 1992 May; 113 (5):500-2. PMID: 1421268.
6. Stoyanovsky D, Yalowich J, Gantchev T, Kagan V. Tyrosinase-induced phenoxyl radicals of etoposide (VP-16): interaction with reductants in model systems, K562 leukemic cell and nuclear homogenates. Free radical research communications. 1993; 19 (6):371-86. PMID: 8168727.
7. Bezprozvanny IB, Ondrias K, Kaftan E, Stoyanovsky DA, Ehrlich BE. Activation of the calcium release channel (ryanodine receptor) by heparin and other polyanions is calcium dependent. Molecular biology of the cell. 1993 Mar; 4 (3):347-52. PMCID: PMC300932. PMID: 7683508.
8. Gantchev TG, van Lier JE, Stoyanovsky DA, Yalowich JC, Kagan VE. Interactions of phenoxyl radical of antitumor drug, etoposide, with reductants in solution and in cell and nuclear homogenates: electron spin resonance and high-

performance liquid chromatography. Methods in Enzymology. 1994; 234:631-42. PMID: 7808339.
9. Kagan VE, Serbinova EA, Stoyanovsky DA, Khwaja S, Packer L. Assay of ubiquinones and ubiquinols as antioxidants. Methods in Enzymology. 1994; 234:343-54. PMID: 7808306.
10. Stoyanovsky DA, Salama G, Kagan VE. Ascorbate/iron activates Ca(2+)-release channels of skeletal sarcoplasmic reticulum vesicles reconstituted in lipid bilayers. Archives of Biochemistry and Biophysics. 1994 Jan; 308 (1):214-21. PMID: 8311455.
11. Kagan VE, Yalowich JC, Day BW, Goldman R, Gantchev TG, Stoyanovsky DA. Ascorbate is the primary reductant of the phenoxyl radical of etoposide in the presence of thiols both in cell homogenates and in model systems. Biochemistry. 1994 Aug 16; 33 (32):9651-60. PMID: 8068642.
12. Stoyanovsky DA, Goldman R, Darrow RM, Organisciak DT, Kagan VE. Endogenous ascorbate regenerates vitamin E in the retina directly and in combination with exogenous dihydrolipoic acid. Current Eye Research. 1995 Mar; 14 (3):181-9. PMID: 7796601.
13. Stoyanovsky DA, Goldman R, Claycamp HG, Kagan VE. Phenoxyl radical-induced thiol-dependent generation of reactive oxygen species: implications for benzene toxicity. Archives of Biochemistry and Biophysics. 1995 Mar 10; 317 (2):315-23. PMID: 7893144.
14. Ritov VB, Goldman R, Stoyanovsky DA, Menshikova EV, Kagan VE. Antioxidant paradoxes of phenolic compounds: peroxyl radical scavenger and lipid antioxidant, etoposide (VP-16), inhibits sarcoplasmic reticulum Ca(2+)-ATPase via thiol oxidation by its phenoxyl radical. Archives of Biochemistry and Biophysics. 1995 Aug 1; 321 (1):140-52. PMID: 7639514.
15. Stoyanovsky DA, Osipov AN, Quinn PJ, Kagan VE. Ubiquinone-dependent recycling of vitamin E radicals by superoxide. Archives of Biochemistry and Biophysics. 1995 Nov 10; 323 (2):343-51. PMID: 7487097.
16. Stoyanovosky DA, Goldman R, Jonnalagadda SS, Day BW, Claycamp HG, Kagan VE. Detection and characterization of the electron paramagnetic resonance-silent glutathionyl-5,5-dimethyl-1-pyrroline N-oxide adduct derived from redox cycling of phenoxyl radicals in model systems and HL-60 cells. Archives of Biochemistry and Biophysics. 1996 Jun 1; 330 (1):3-11. PMID: 8651701.
17. Stoyanovsky DA, Cederbaum AI. Thiol oxidation and cytochrome P450-dependent metabolism of CCl4 triggers Ca2+ release from liver microsomes. Biochemistry. 1996 Dec 10; 35 (49):15839-45. PMID: 8961948.
18. Stoyanovsky D, Murphy T, Anno PR, Kim YM, Salama G. Nitric oxide activates skeletal and cardiac ryanodine receptors. Cell calcium. 1997 Jan; 21 (1):19-29. PMID: 9056074.
19. Stoyanovsky DA, Wu D, Cederbaum AI. Interaction of 1-hydroxyethyl radical with glutathione, ascorbic acid and alpha-tocopherol. Free radical biology & medicine. 1998 Jan 1; 24 (1):132-8. PMID: 9436622.
20. Stoyanovsky DA, Cederbaum AI. Redox-cycling of iron ions triggers calcium release from liver microsomes. Free radical biology & medicine. 1998 Mar 15; 24 (5):745-53. PMID: 9586805.

21. Stoyanovsky DA, Cederbaum AI. ESR and HPLC-EC analysis of ethanol oxidation to 1-hydroxyethyl radical: rapid reduction and quantification of POBN and PBN nitroxides. Free radical biology & medicine. 1998 Sep; 25:536-45. PMID: 9741590.
22. Stoyanovsky DA, Clancy R, Cederbaum AI. Decomposition of Sodium Trioxodinitrate (Angeli's Salt) To Hydroxyl Radical: An ESR Spin-Trapping Study. Journal of the American Chemical Society. 1999; 121:5093-5094.
23. Stoyanovsky DA, Melnikov Z, Cederbaum AI. ESR and HPLC-EC analysis of the interaction of hydroxyl radical with DMSO: rapid reduction and quantification of POBN and PBN nitroxides. Analytical chemistry. 1999 Feb 1; 71 (3):715-21. PMID: 9989388.
24. Stoyanovsky DA, Cederbaum AI. Metabolites of acetaminophen trigger Ca2+ release from liver microsomes. Toxicology letters. 1999 May 20; 106 (1):23-9. PMID: 10378447.
25. Stoyanovsky DA, Cederbaum AI. Metabolism of carbon tetrachloride to trichloromethyl radical: An ESR and HPLC-EC study. Chemical research in toxicology. 1999 Aug; 12 (8):730-6. PMID: 10458707.
26. Puntarulo S, Stoyanovsky DA, Cederbaum AI. Interaction of 1-hydroxyethyl radical with antioxidant enzymes. Archives of biochemistry and biophysics. 1999 Dec 15; 372 (2):355-9. PMID: 10600175.
27. Sakurai K, Stoyanovsky DA, Fujimoto Y, Cederbaum AI. Mitochondrial permeability transition induced by 1-hydroxyethyl radical. Free radical biology & medicine. 2000 Jan 15; 28 (2):273-80. PMID: 11281295.
28. Clancy R, Rediske J, Koehne C, Stoyanovsky D, Amin A, Attur M, Iyama K, Abramson SB. Activation of stress-activated protein kinase in osteoarthritic cartilage: evidence for nitric oxide dependence. Osteoarthritis and cartilage / OARS, Osteoarthritis Research Society. 2001 May; 9 (4):294-9. PMID: 11399092.
29. Clancy R, Cederbaum AI, Stoyanovsky DA. Preparation and properties of S-nitroso-L-cysteine ethyl ester, an intracellular nitrosating agent. Journal of medicinal chemistry. 2001 Jun 7; 44 (12):2035-8. PMID: 11384248.
30. Caro AA, Cederbaum AI, Stoyanovsky DA. Oxidation of the ketoxime acetoxime to nitric oxide by oxygen radical-generating systems. Nitric oxide : biology and chemistry / official journal of the Nitric Oxide Society. 2001 Aug; 5 (4):413-24. PMID: 11485379.
31. Novakov CP, Feierman D, Cederbaum AI, Stoyanovsky DA. An ESR and HPLC-EC assay for the detection of alkyl radicals. Chemical research in toxicology. 2001 Sep; 14 (9):1239-46. PMID: 11559038.
32. Novakov CP, Stoyanovsky DA. Comparative metabolism of N-tert-butyl-N-[1-(1-oxy-pyridin-4-yl)-ethyl]- and N-tert-butyl-N-(1-phenyl-ethyl)-nitroxide by the cytochrome P450 monooxygenase system. Chemical research in toxicology. 2002 May; 15 (5):749-53. PMID: 12018998.
33. Ivanova J, Salama G, Clancy RM, Schor NF, Nylander KD, Stoyanovsky DA. Formation of nitroxyl and hydroxyl radical in solutions of sodium trioxodinitrate: effects of pH and cytotoxicity. The Journal of biological chemistry. 2003 Oct 31; 278 (44):42761-8. PMID: 12920123.

34. Stoyanovsky DA, Schor NF, Nylander KD, Salama G. Effects of pH on the cytotoxicity of sodium trioxodinitrate (Angeli's salt). Journal of medicinal chemistry. 2004 Jan 1; 47 (1):210-7. PMID: 14695834.
35. Cheong E, Tumbev V, Abramson J, Salama G, Stoyanovsky DA. Nitroxyl triggers Ca2+ release from skeletal and cardiac sarcoplasmic reticulum by oxidizing ryanodine receptors. Cell calcium. 2005 Jan; 37 (1):87-96. PMID: 15541467.
36. Chen T, Pearce LL, Peterson J, Stoyanovsky D, Billiar TR. Glutathione depletion renders rat hepatocytes sensitive to nitric oxide donor-mediated toxicity. Hepatology (Baltimore, Md.). 2005 Sep; 42 (3):598-607. PMID: 16116630.
37. Cheong E, Tumbev V, Stoyanovsky D, Salama G. Effects of pO2 on the activation of skeletal muscle ryanodine receptors by NO: a cautionary note. Cell calcium. 2005 Nov; 38 (5):481-8. PMID: 16099502.
38. Stoyanovsky DA, Tyurina YY, Tyurin VA, Anand D, Mandavia DN, Gius D, Ivanova J, Pitt B, Billiar TR, Kagan VE. Thioredoxin and lipoic acid catalyze the denitrosation of low molecular weight and protein S-nitrosothiols. Journal of The American Chemical Society. 2005 Nov 16; 127 (45):15815-23. PMID: 16277524.
39. Vlasova II, Tyurin VA, Kapralov AA, Kurnikov IV, Osipov AN, Potapovich MV, Stoyanovsky DA, Kagan VE. Nitric oxide inhibits peroxidase activity of cytochrome c.cardiolipin complex and blocks cardiolipin oxidation. The Journal of biological chemistry. 2006 May 26; 281 (21):14554-62. PMID: 16543234.
40. Zuckerbraun BS, Stoyanovsky DA, Sengupta R, Shapiro RA, Ozanich BA, Rao J, Barbato JE, Tzeng E. Nitric oxide-induced inhibition of smooth muscle cell proliferation involves S-nitrosation and inactivation of RhoA. American journal of physiology. Cell physiology. 2007 Feb; 292 (2):C824-31. PMID: 16914531.
41. Tyurina YY, Basova LV, Konduru NV, Tyurin VA, Potapovich AI, Cai P, Bayir H, Stoyanovsky D, Pitt BR, Shvedova AA, Fadeel B, Kagan VE. Nitrosative stress inhibits the aminophospholipid translocase resulting in phosphatidylserine externalization and macrophage engulfment: implications for the resolution of inflammation. The Journal of biological chemistry. 2007 Mar 16; 282 (11):8498-509. PMID: 17229723.
42. Sengupta R, Ryter SW, Zuckerbraun BS, Tzeng E, Billiar TR, Stoyanovsky DA. Thioredoxin catalyzes the denitrosation of low-molecular mass and protein S-nitrosothiols. Biochemistry. 2007 Jul 17; 46 (28):8472-83. PMID: 17580965.
43. Kagan VE, Jiang J, Bayir H, Stoyanovsky DA. Targeting nitroxides to mitochondria: location, location, location, and ...concentration: highlight commentary on "Mitochondria superoxide dismutase mimetic inhibits peroxide-induced oxidative damage and apoptosis: role of mitochondrial superoxide". Free Radic Biol Med 02 Aug 2007; 43(3): 348-50.
44. Stoyanovsky DA, Vlasova II, Belikova NA, Kapralov A, Tyurin V, Greenberger JS, Kagan VE. Activation of NO donors in mitochondria: peroxidase metabolism of (2-hydroxyamino-vinyl)-triphenyl-phosphonium by cytochrome c releases NO and protects cells against apoptosis. FEBS letters. 2008 Mar 5; 582 (5):725-8. PMCID: PMC2275320. PMID: 18258194.
45. Borisenko GG, Kapralov AA, Tyurin VA, Maeda A, Stoyanovsky DA, Kagan VE. Molecular design of new inhibitors of peroxidase activity of cytochrome c/cardiolipin complexes: fluorescent oxadiazole-derivatized cardiolipin.

Biochemistry. 2008 Dec 23; 47 (51):13699-710. PMCID: PMC2732770. PMID: 19053260.
46. Kagan VE, Bayir A, Bayir H, Stoyanovsky D, Borisenko GG, Tyurina YY, Wipf P, Atkinson J, Greenberger JS, Chapkin RS, Belikova NA. Mitochondria-targeted disruptors and inhibitors of cytochrome c/cardiolipin peroxidase complexes: a new strategy in anti-apoptotic drug discovery. Molecular nutrition & food research. 2009 Jan; 53 (1):104-14. PMCID: PMC2659540. PMID: 18979502.
47. Sengupta R, Billiar TR, Stoyanovsky DA. Studies toward the analysis of S-nitrosoproteins. Organic & biomolecular chemistry. 2009 Jan 21; 7 (2):232-4. PMID: 19109666.
48. Kapadia MR, Eng JW, Jiang Q, Stoyanovsky DA, Kibbe MR. Nitric oxide regulates the 26S proteasome in vascular smooth muscle cells. Nitric oxide : biology and chemistry / official journal of the Nitric Oxide Society. 2009 Jun; 20 (4):279-88. PMID: 19233305.
49. Kagan VE, Bayir HA, Belikova NA, Kapralov O, Tyurina YY, Tyurin VA, Jiang J, Stoyanovsky DA, Wipf P, Kochanek PM, Greenberger JS, Pitt B, Shvedova AA, Borisenko G. Cytochrome c/cardiolipin relations in mitochondria: a kiss of death. Free radical biology & medicine. 2009 Jun 1; 46 (11):1439-53. PMCID: PMC2732771. PMID: 19285551.
50. Belikova NA, Jiang J, Stoyanovsky DA, Glumac A, Bayir H, Greenberger JS, Kagan VE. Mitochondria-targeted (2-hydroxyamino-vinyl)-triphenyl-phosphonium releases NO(.) and protects mouse embryonic cells against irradiation-induced apoptosis. FEBS Letters. 2009 Jun 18; 583 (12):1945-50. PMCID: PMC2696693. PMID: 19427865.
51. Sengupta R, Billiar TR, Atkins JL, Kagan VE, Stoyanovsky DA. Nitric oxide and dihydrolipoic acid modulate the activity of caspase 3 in HepG2 cells. FEBS Letters. 2009 Nov 3; 583 (21):3525-30. PMCID: PMC2789423. PMID: 19822150.
52. Kagan VE, Wipf P, Stoyanovsky D, Greenberger JS, Borisenko G, Belikova NA, Yanamala N, Samhan Arias AK, Tungekar MA, Jiang J, Tyurina YY, Ji J, Klein-Seetharaman J, Pitt BR, Shvedova AA, Bayir H. Mitochondrial targeting of electron scavenging antioxidants: Regulation of selective oxidation vs random chain reactions. Advanced drug delivery reviews. 2009 Nov 30; 61 (14):1375-85. PMCID: PMC2784017. PMID: 19716396.
53. Jiang J, Stoyanovsky DA, 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. Radiation research. 2009 Dec; 172 (6):706-17. PMCID: PMC2804962. PMID: 19929417.
54. Sengupta R, Billiar TR, Kagan VE, Stoyanovsky DA. Nitric oxide and thioredoxin type 1 modulate the activity of caspase 8 in HepG2 cells. Biochemical and Biophysical Research Communications. 2010 Jan 1; 391 (1):1127-30. PMCID: PMC2812598. PMID: 20005201.
55. Stoyanovsky DA, Kapralov A, Huang Z, Maeda A, Osipov A, Hsia CJ, Ma L, Kochanek PM, Bayr H, Kagan VE. Unusual peroxidase activity of polynitroxylated pegylated hemoglobin: Elimination of H(2)O(2) coupled with intramolecular oxidation of nitroxides. Biochemical and Biophysical Research Communications. 2010 Aug 20; 399 (2):139-43. PMID: 20643098.

56. Huang Z, Jiang J, Belikova NA, Stoyanovsky DA, Kagan VE, Mintz AH. Protection of normal brain cells from ¿-irradiation-induced apoptosis by a mitochondria-targeted triphenyl-phosphonium-nitroxide: a possible utility in glioblastoma therapy. Journal of neuro-oncology. 2010 Oct; 100 (1):1-8. PMID: 20835910.
57. Atkinson J, Kapralov AA, Yanamala N, Tyurina YY, Amoscato AA, Pearce L, Peterson J, Huang Z, Jiang J, Samhan-Arias AK, Maeda A, Feng W, Wasserloos K, Belikova NA, Tyurin VA, Wang H, Fletcher J, Wang Y, Vlasova II, Klein-Seetharaman J, Stoyanovsky DA, Bayîr H, Pitt BR, Epperly MW, Greenberger JS, Kagan VE. A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. Nature communications. 2011; 2:497. PMCID: PMC3557495. PMID: 21988913.
58. Li HH, Xu J, Wasserloos KJ, Li J, Tyurina YY, Kagan VE, Wang X, Chen AF, Liu ZQ, Stoyanovsky D, Pitt BR, Zhang LM. Cytoprotective effects of albumin, nitrosated or reduced, in cultured rat pulmonary vascular cells. American journal of physiology. Lung cellular and molecular physiology. 2011 Apr; 300 (4):L526-33. PMCID: PMC3075101. PMID: 21239532.
59. Stoyanovsky DA, Maeda A, Atkins JL, Kagan VE. Assessments of thiyl radicals in biosystems: difficulties and new applications. Analytical Chemistry. 2011 Sep 1; 83 (17):6432-8. PMID: 21591751.
60. Stoyanovsky DA, Huang Z, Jiang J, Belikova NA, Tyurin V, Epperly MW, Greenberger JS, Bayir H, Kagan VE. A manganese-porphyrin complex decomposes H(2)O(2), inhibits apoptosis, and acts as a radiation mitigator in vivo. ACS medicinal chemistry letters. 2011 Nov 10; 2 (11):814-817. PMCID: PMC3254103. PMID: 22247787.
61. Tyurina YY, Tungekar MA, Jung MY, Tyurin VA, Greenberger JS, Stoyanovsky DA, Kagan VE. Mitochondria targeting of non-peroxidizable triphenylphosphonium conjugated oleic acid protects mouse embryonic cells against apoptosis: role of cardiolipin remodeling. FEBS Letters. 2012 Feb 3; 586 (3):235-41. PMCID: PMC3273856. PMID: 22210054.
62. Thambiayya K, Wasserloos K, Kagan VE, Stoyanovsky D, Pitt BR. A critical role for increased labile zinc in reducing sensitivity of cultured sheep pulmonary artery endothelial cells to LPS-induced apoptosis. American journal of physiology. Lung cellular and molecular physiology. 2012 Jun 15; 302 (12):L1287-95. PMCID: PMC3379046. PMID: 22523284.
63. Stoyanovsky DA, Scott MJ, Billiar TR. Glutathione and thioredoxin type 1 cooperatively denitrosate HepG2 cells-derived cytosolic S-nitrosoproteins. Organic & biomolecular chemistry. 2013 Jun 7. PMID: 23743503.
64. Stoyanovsky DA, Sparvero LJ, Amoscato AA, He RR, Watkins S, Pitt BR, Bayir H, Kagan VE. Improved spatial resolution of matrix-assisted laser desorption/ionization imaging of lipids in the brain by alkylated derivatives of 2,5-dihydroxybenzoic acid. Rapid Communications in Mass Spectrometry : RCM. 2014 Mar 15; 28 (5):403-12. PMCID: PMC3973445. PMID: 24497278.

RESEARCH

Current research support

Funding Agency:	NIH
Grant Number:	HL114453-01

Title of Grant:	Cardiolipin as a novel mediator of acute lung injury
Principal Investigator:	Mallampalli
Stoyanovsky Role on Grant:	PI (sole)
Years Inclusive:	9/1/2013 - 8/31/2018
Percent Effort:	5.0 %
Total Direct Costs:	$4,442
Total Amount Awarded:	$6,619

Funding Agency:	NIH
Grant Number:	114551
Title of Grant:	Nitric Oxide and Hepatic Function in Sepsis and Trauma
Principal Investigator:	Billiar
Stoyanovsky Role on Grant:	Co-Investigator
Years Inclusive:	4/1/1990 - 6/30/2018
Percent Effort:	5.0 %
Total Direct Costs:	$4,442
Total Amount Awarded:	$6,619

Funding Agency:	NIH
Grant Number:	122750
Title of Grant:	Caspase-1 and inflammasome activation in trauma-hemorrhagic shock
Principal Investigator:	Scott
Stoyanovsky Role on Grant:	Co-Investigator
Years Inclusive:	1/1/2013 - 12/31/2017
Percent Effort:	10.0 %
Total Direct Costs:	$8,885
Total Amount Awarded:	$13,238

Funding Agency:	NIH
Grant Number:	NS076511
Title of Grant:	Mapping Lipid Oxidation in Traumatic Brain Injury by Mass Spectrometric Imagin
Principal Investigator:	Kagan
Stoyanovsky Role on Grant:	Co-Investigator
Years Inclusive:	7/1/2012 - 6/30/2017
Percent Effort:	12.5 %
Total Direct Costs:	$11,106
Total Amount Awarded:	$16,548

Funding Agency:	NIH
Grant Number:	U19AI068021
Title of Grant:	Mitochondria targeting against radiation damage.

Principal Investigator:	Stoyanovsky
Stoyanovsky Role on Grant:	PI (multiple)
Years Inclusive:	9/30/2005 - 8/31/2015
Percent Effort:	25.0 %
Total Direct Costs:	$62,502
Total Amount Awarded:	$94,691

Funding Agency:	CDC
Grant Number:	OH008282-08
Title of Grant:	Carbon nanotube biodegradation by neutrophil myeoloperoxidase
Stoyanovsky Role on Grant:	Co-Investigator
Years Inclusive:	7/1/2011 - 6/30/2015
Percent Effort:	20.0 %
Total Direct Costs:	$17,770
Total Amount Awarded:	$26,477

Past research support

Funding Agency:	NIH
Grant Number:	U19AI068021
Title of Grant:	Mitochondria targeting against radiation damage
Principal Investigator:	Kagan
Stoyanovsky Role on Grant:	PI (multiple)
Years Inclusive:	9/30/2005 - 8/31/2015
Percent Effort:	17.5 %
Total Direct Costs:	$15,549
Total Amount Awarded:	$23,168

Funding Agency:	NIH
Grant Number:	U19AI068021
Title of Grant:	CMCR Pilot Projects, Synthesis of mitochondrial nitric oxide-releasing prodrugs
Principal Investigator:	Stoyanovsky
Stoyanovsky Role on Grant:	PI (multiple)
Years Inclusive:	8/30/2006 - 8/30/2009
Percent Effort:	10.0 %
Total Direct Costs:	$35,000
Total Amount Awarded:	$52,150

Funding Agency:	NIH
Grant Number:	ES009648
Title of Grant:	HPLC detection of radical intermediates

Stoyanovsky Role on Grant:	PI (sole)
Years Inclusive:	6/1/2000 - 6/30/2004
Percent Effort:	50.0 %
Total Direct Costs:	$175,000
Total Amount Awarded:	$260,750

OTHER SCHOLARLY ACTIVITIES

Manuscript Reviewer

2000 - Present	Journal of the American Chemical Society
2002 - Present	The Journal of Organic Chemistry
2003 - Present	Journal of Medicinal Chemistry
2003 - Present	Organic Letters
2005 - Present	Bioanalytical chemistry
2007 - Present	Organic & Biomolecular Chemistry
2007 - Present	Molecular BioSystems
2008 - Present	Advances
2008 - Present	Chemical Communications
2008 - Present	Analyst
2008 - Present	New Journal of Chemistry
2009 - Present	Toxicology and Applied Pharmacology
2010 - Present	Analytical Chemistry

MENTORING AND ADVISING

Undergraduate Students

Year(s)	Student's Name & Degree/Discipline	Advisor's Role
2004 - 2004	Dhara Mandavia Denitrosation of S-nitrosoproteins by thioredoxin	
2004 - 2005	Dipti Anand Denitrosation of S-nitrosoproteins by thioredoxin	

Postdoc or Fellow

Year(s)	Student's Name & Degree/Discipline
2000 - 2001	Andres Caro Oxidative metabolism of oximes
2000 - 2002	Christo Novakov HPLC-EPR analysis of radical metabolites

2003 - 2005	Juliana Ivanova-Tumbeva Chemistry and toxicology of nitroxyl
2006 - 2009	Rajib Sengupta Denitrosation of S-nitrosoproteins by thioredoxin
2009 - 2010	Natalia Belikova Synthesis and evaluation of triphenylphosphonium-derived nitroxides as radiation mitigators
2010 - 2011	Akihiro Maeda Immuno-spin trapping analysis of S-nitrosoproteins
2010 - 2011	Alejandro Samhan-Arias HPLC analysis of lipids and lipid hydroperoxides
2012 - 2013	L. J. Sparvero MALDI-MS analysis of lipids
2013 - Present	Marcelo Montenegro Redox biochemistry of HMGB1