

CURRICULUM VITAE

NAME: James P. Fabisiak

BUSINESS ADDRESS: Department of Environmental and
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EDUCATION AND TRAINING

Undergraduate

1972-1976	Syracuse University	BS	Biology/Psychology
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Graduate

1977-1980	New York State College of Veterinary Medicine, Syracuse, New York	MS	Veterinary Science
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1980-1986	Pennsylvania State University, Milton S. Hershey Medical Center, Hershey, PA	PhD	Pharmacology
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APPOINTMENTS AND POSITIONS

Academic

2007-Present	Associate Professor	Department of Environmental and Occupational Health, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA
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2014 – Present	Associate Director	Center for Health Environments & Communities, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA
2005-2012	Associate Director	Center for Free Radical & Antioxidant Health, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA
1998-2007	Assistant Professor	Department of Environmental and Occupational Health, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA
1994-1998	Assistant Professor	Department of Pharmacology University of Pittsburgh, Pittsburgh, PA
1989-1994	Research Assistant Professor	Department of Medicine (Div. PACCM) University of Pittsburgh, Pittsburgh, PA
1986-1989	Postdoctoral Fellow	Department of Physiology & Biophysics, University of Vermont, Burlington, VT
1980-1986	Graduate Research Assistant	Department of Pharmacology, Pennsylvania State University, Milton S. Hershey Medical Center, Hershey, PA
1978-1980	Graduate Research Assistant	Department of Pharmacology N.Y.S. College of Veterinary Medicine Ithaca, NY

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1987- Present	American Thoracic Society
2007- Present	Allegheny-Erie Chapter, Society of Toxicology
2009- Present	Society of Toxicology

HONORS

- 1987 Parker B. Francis Fellow in Pulmonary Research
- 1985 Sigma Xi
- 1977- Outstanding Teaching Assistant in section of
1978 Physiology and Anatomy, Cornell, University
- 1972- B.S. Awarded Cum Laude
1976
- 2010 Nominated for the GSPH Craig Award in
Teaching Excellence

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Primary/Coordinator
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Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Primary/Coordinator
2013- Present	EOH 2180/2181: Introduction to Risk Assessment/Environmental Risk Assessment	3 credit hours (\approx 30 students)	Director
2000- Present	EOH 2175: Principles of Toxicology	3 credit hours (\approx 15 students)	Director
2004- Present	EOH 2013: Health, Disease, & the Environment	3 hrs lecture 3 credit hours (\approx 120 students)	Guest Lecturer/Instructor
2013- Present	PUBHLT 1003: Introduction to Public & Global Health (undergraduate)	3 hrs lecture 4 credit hours (\approx 10 students)	Guest Lecturer/Instructor
2013- Present	EOH 2310: Molecular Fundamentals	3 hrs lecture 3 credit hours	Guest Lecturer/Instructor
2012	EOH 2080/2081: Introduction to Risk Sciences / Environmental Risk Assessment	2 hr lecture 3 credit hrs	Guest Lecturer/Instructor
2004- 2011	EOH 2176: Principles of Toxicology: Conference	2 credit hours	Developer/ Director
2003- 2005	EOH 1200: Introduction to Risk Assessment	1.5 hrs lecture 3 credit hours	Guest Lecturer/Instructor
2006	EOH 2181: Risk Assessment Practicum	1.5 hrs lecture 2 credit hours	Guest Lecturer/Instructor
1998- 2005	EOH 2001: Introduction to Research Methods	2 hrs lecture 2 credit hours	Guest Lecturer/Instructors
1998- 1999	EOH 2175: Principles of Toxicology	3 credit hours	Co-Director

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
1990-1994	Introduction to Pulmonary Cell & Molecular Biology (Short Course for Pulmonary Fellows)	Developer/ Instructor
1991-1997	Small group workshops and problem-based learning sessions for Medical Pharmacology (for Medical Students), University of Pittsburgh School of Medicine	Instructor
1991-1994	Cardiovascular/Pulmonary Pharmacology (Pharmacology graduate students), University of Pittsburgh School of Medicine	Lecturer
September 22, 2003	Public Health Roundtable Series: <i>Public Health and the Built Environment</i>	Participant
June – August 2012	Laboratory Rotation for Sheila Tripathy	Mentor
July 2015 - Present	“Metabolomics” lecture for Fundamentals of Bench Research CLRES 2700 Summer Course	Lecturer

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Fei Gao	Ph.D. 2005	Dissertation thesis: <i>Synergistic activation of interleukin-6 (IL-6) release by human lung fibroblasts exposed to Mycoplasma fermentans and residual oil fly ash.</i>	Current Position: Clinical Fellow Dept. Pathology University of Pittsburgh
Wei-Chieh Tseng	MPH 2011	MPH essay: <i>Is coal combustion waste safe for humans and the environment?</i>	
Dina Dunn	MPH 2014	MPH essay: <i>The public health implications of the use of radioprotectors and radiomitigators in cumulative ionizing radiation exposure.</i>	
Andrew Helmy	MPH 2014	MPH essay: <i>Hidden risks of acrylamide in everyday foods.</i>	

d. Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
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Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2001	Pao Hsiu	PhD	<i>Mechanisms of Curacin A-induced Cellular Toxicity</i>
2005	Vidisha Kini	MS	<i>Pro- and Anti-Apoptotic Functions of Etoposide and the Mechanism of Cardiolipin Oxidation by Cytochrome c</i>
2010	Nagarjun Konduru	PhD	<i>The Functionalization of Single-Walled Carbon Nanotubes with Biomolecules to Target Professional Phagocytes and Promote Biodegradation</i>
2011	Elisenda Manzano	PhD	<i>Peroxynitrite and Mitochondrial Cytochromes</i>
2014	Shilpi Oberoi	PhD	<i>Estimating the Global Burden of Disease Caused by Arsenic in Food</i>
2014	Andrew Michanowicz	PhD	<i>Hybrid Dispersion/Land Use Regression Modeling for Improving Pollutant Concentration Estimates.</i>
2015	R. Tyler Rubright	MS	<i>Assessing Ambient Fine Particulate Matter Exposure Associations with Coronary Artery Calcification</i>
2015	Sara Gillooly	MPH (reader)	<i>Using Deciduous Tree Leaves as Biomonitors for Particulate Air Pollution: A Literature Review and Pilot Study</i>

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Population	Type of Exam (Qualifying/Comprehensive)
2005	Maxine Wright-Walters	Qualifying
2007	Nagarjun Konduru	Comprehensive
2014	Sheila Tripathy	Comprehensive
2014	Ryan Tyler Rubright	Comprehensive
2016	Catherine M. Howe	Qualifying

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
1990-1992	Jan Madison, M.D.	Clinical Fellow
1992-1994	Robert D. Weiss, M.D.	Clinical Fellow
2006-Present	Kelly A. Brant, Ph.D	Research Associate

g. Mentoring of Undergraduate/Graduate Students in Field Placements

Dates	Name of Student	Degree/Program Description	Field Site
1993-1994	Ericka Fleming	Intern	Chatham College
2000 (8 weeks)	Karie Cardomone	Intern	Westminster College
2007	Rachel M. Ward	Intern	University of Pittsburgh
2007 (10 weeks)	Cory Mathias*	Intern	Westminster College
2008 (10 weeks)			

*Funded both years with NIH administrative supplement to RO1 ES11986 to support short-term research experiences for undergraduates and high school students

h. Other Teaching and Training

Dates	Teaching Activity	Program/Description
Summer 2008	Mentor/Instructor	Pitt Steer High School Intern Ricki Scott
Summer 2009	Mentor/Instructor	Pitt STEER High School Intern Wade Lipscomb

2. Research and Training

- a. Grants and Contracts Received
Principal Investigator

a. Grants & Contracts Received, con't

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
1986-1987	University of Vermont Research Fellowship	University of Vermont		
1987-1989	Expression of Platelet-Derived Growth Factor by Pulmonary Endothelial Cells	Research Initiative Award, Vermont Lung Association		
1987-1990	Parker B. Francis Fellowship in Pulmonary Research	Parker B. Francis Foundation		
1990-1991	Characterization of Growth Factors Derived from Rat Lung Fibroblasts	Central Research Development Fund		
1992-1993	Role of the Fibroblast in Rejection of Lung Allograft	Am. Lung Assoc. of PA		
1994	Mycoplasma Infection in Lung Transplant Patients	Ortho-McNeil Pharmaceuticals	\$15,000	
1994-1996	Mechanisms of <i>M. fermentans</i> - induced Cytokine Production	Am. Lung Assoc. of PA	\$50,000	
1/1/98-12/31/99	Endothelial Lipid Oxidation/Translocation by Paraquat RO3-ES09387	NIH-R-03 (NIEHS/NHLBI)	\$49,997	50%
11/15/98-11/16/03	Metal/Metal/NO Mixtures: Metallothioneins & Oxidative Stress Grant R827151	EPA STAR	\$117,379	50%

Principal Investigator, con't

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
05/01/05-3/31/09	Particulate Matter/Mycoplasma Stress Interactions RO1- ES011986	NIH-NIEHS	\$200,000	50%
6/01/07-6/30/09	Particulate Matter/Mycoplasma Stress Interactions (Cory Mathias) R-01 ES011986	NIH R01 Supplement	\$5,300	N/A
7/01/10-6/30/11	Cellular Effects of fossil fuel combustion waste products	Pittsburgh Toxic Metals Program, Pilot Project	\$20,000	N/A

Multiple PIs

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
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**Co-
investigator**

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
1990-1991	Role of the Fibroblast in Rejection of Lung Allograft (PI J. Dauber)	Competitive Medical Research Fund, PUH		
7/1/2000- 6/30/04	Copper/Albumin Redox-cycling in Preeclampsia RO1- HL64145 (PI V. Kagan)	NIH R-01 NHLBI	\$225,000	20%
7/1/05- 6/30/10	Lung Oxidative Stress Inflammation by Carbon Nanotubes R01-OH008282 (PI V. Kagan)	NIOSH R-01	\$250,000	15%
1/2012 – 12/2013	Assessing UNGD- related exposures in the home. (PI B. Pitt)	CHEC Project: Heinz Endowments	\$70,000	30%
1/2014 – 12/2014	Perinatal Outcomes and Marcellus Shale UNGD-related exposures (PI B. Pitt)	CHEC Project: Heinz Endowments	\$200,000	30%
9/29/2006- 5/31/2016	Functional Genomics of Chemical-induced Lung Injury U01-ES015675	NIH-NIEHS	\$470,000	65%

Other

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	Role
1989-1994	Multi-disciplinary Pulmonary Research Training Grant T32-HL-07563	NIH/NHLBI	\$237,500	Trainer
7/1/07-6/30/09	F32-NRSA Fellowship Synergistic activation of PTGS2 and CXCL8 by nickel and microbial stimuli	NIH/NIEHS	\$49,646	Sponsor/Mentor

b. Other Research and Training Activities

Date	Position	Description of Activity
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PUBLICATIONS

1. Refereed Articles

Fabisiak, J.P. and Schwark, W.S. Aspects of the pentylentetrazol kindling model of epileptogenesis in the rat. *Experimental Neurol.* 78:7-14, 1982.

Fabisiak, J.P. and Schwark, W.S. Cerebral free amino acids in the amygdaloid kindling model of epilepsy. *Neuropharmacology.* 21:179-182, 1982.

Fabisiak, J.P., Rannels, S.R., Vesell, E.S. and Rannels, D.E. Receptor-independent sequestration of beta-adrenergic ligands by alveolar type II cells. *Am. J. Physiol: Cell Physiol.* 150:C871-C879, 1986.

Fabisiak, J.P., Vesell, E.S. and Rannels, D.E. Interactions of beta-adrenergic antagonists with isolated rat alveolar type II pneumocytes: I. Analysis, characterization and regulation of specific beta-adrenergic receptors. *J. Pharmacol. Exptl. Therapeut.* 241:722-727, 1987.

Fabisiak, J.P., Vesell, E.S. and Rannels, D.E. Interaction of beta-adrenergic antagonists with isolated rat alveolar type II pneumocytes: II. Receptor-independent accumulation of beta-adrenergic antagonists and other cationic amphiphilic drugs in lamellar bodies. *J. Pharmacol. Exptl. Therapeut.* 241:728-735, 1987.

Rannels, S.R., Yarnell, J.A. Stinson-Fisher, C., **Fabisiak, J.P.** and Rannels, D.E. Role of laminin in maintenance of type II pneumocyte morphology and function. *Am. J. Physiol: Cell Physiol.* 253:C835-C845, 1987.

Fabisiak, J.P., Evans, J.N. and Kelley, J., Increased expression of PDGF-B (c-sis) mRNA in rat lung precedes DNA synthesis and tissue repair during chronic hyperoxia. *Am. J. Respir. Cell Molec. Biol.* 1:181-189, 1989.

Kelley, J., **Fabisiak, J.P.**, Hawes, K. and Absher, M. Cytokine signaling in the lung: TGF- β secretion by lung fibroblasts. *Am. J. Physiol: Lung Cell Mol. Physiol.* 4:L123-L128, 1991.

Fabisiak, J.P., Evans, J.N., Absher, M., Gannon, D. and Kelley, J. Expression of platelet-derived growth factor A-chain (PDGF-A) mRNA in lung tissue and cells: Complex regulation during remodeling. *Chest.* 99:85S-86S, 1991.

Kelley, J., Kovacs, E.J., Nicholson, K. and **Fabisiak, J.P.** Transforming growth factor- β production by lung macrophages and fibroblasts. *Chest.* 99:52S-54S, 1991.

Fabisiak, J.P., Absher, M., Evans, J.N. and Kelley, J. Spontaneous production of PDGF-like cytokines by rat lung fibroblasts in vitro. *Am. J. Physiol: Lung Cell Mol. Physiol.* 7:L185-L193, 1992.

Fabisiak, J.P., Weiss, R.D., Powell, G.A. and Dauber, J.H. Enhanced secretion of immunomodulating cytokines by human lung fibroblasts during in vitro infection with *Mycoplasma fermentans*. *Am. J. Respir. Cell Mol. Biol.* 8:358-364, 1993.

Fabisiak, J.P., Kagan, V.E., Ritov, V.B., Johnson, D.E., and Lazo, J.S. Bcl-2 inhibits selective oxidation and externalization of phosphatidylserine during paraquat-induced apoptosis. *Am. Jour. Physiol.* 272 (Cell Physiol. 41): C675-C684, 1997.

Fabisiak, J.P., Kagan, V.E., Tyurina, Y.Y., Tyurin, V.A., and Lazo, J.S. Paraquat-induced phosphatidylserine oxidation and apoptosis is independent of activation of phospholipase A₂. *Am. Jour. Physiol.* 274 (Lung Cell Mol. Physiol. 18): L793-L802, 1998.

Fabisiak, J.P., Tyurina, Y.Y., Tyurin, V.A., Lazo, J.S., and Kagan, V.E. Random versus selective membrane phospholipid oxidation in apoptosis: Role of phosphatidylserine. *Biochemistry*, 37:13781-13790, 1998.

Fabisiak, J.P., Tyurin, V.A., Tyurina, Y.Y., Borisenko, G., Korotaeva, A., Pitt, B.R., and Lazo, J.S., Kagan, V.E. Redox regulation of copper-metallothionein. *Arch. Biochem. Biophys.*, 363:171-181, 1999.

Schor, N.F., Tyurina, Y.Y., **Fabisiak, J.P.**, Tyurina, V.A., Lazo, J.S., and Kagan, V.E. Bcl-2-induced potentiation of apoptosis. *Brain Research*, 831:125-130, 1999.

Kagan, V.E., Borisenko, G.G., Tyurina, Y.Y., Tyurin, V.A., Yalowich, J., and **Fabisiak, J.P.** Chemopreventive strategies against etoposide-induced acute myeloid leukemia: A free radical/antioxidant approach. *Mol. Pharmacol.*, 56:494-506, 1999.

Fabisiak, J.P., Pearce, L.L., Borisenko, G.G., Tyurina, Y.Y., Tyurin, V.A., Razzack, J., Pitt, B., and Kagan, V.E. Bifunctional anti-/prooxidant potential of metallothionein: Redox signaling of copper binding and release. *Antioxidants and Redox Signaling*, 1:349-364, 1999.

Vogt, A., Wang, A.S., Johnson, C.S., **Fabisiak, J.P.**, Wipf, P., and Lazo, J.S. In vivo antitumor activity and induction of insulin-like growth factor-1-resistant apoptosis by SC $\alpha\alpha\delta$ -9. *J. Pharm. Exptl. Therapeut.*, 292:530-537, 2000.

Fabisiak, J.P., Tyurin, V.A., Tyurina, Y.Y., Lazo, Y.Y., and Kagan, V.E. Nitric oxide dissociates lipid oxidation from apoptosis and phosphatidylserine externalization during oxidative stress. *Biochemistry*, 39:127-138, 2000.

Shevoda, A.A., Kommineni, C., Jeffries, B.A., Castranova, V., Tyurina, Y.Y., Tyurin, V.A., Serbinova, E.A., **Fabisiak, J.P.**, and Kagan, V.E. Redox-cycling of phenol induces oxidative stress in human epidermal keratinocytes. *J. Invest. Dermatol.*, 114:354-364, 2000.

CV Fabisiak, J.P.

Fabisiak, J.P., Ritov, V.B., and Kagan, V.E. Reversible thiol-dependent activation of ryanodine-sensitive Ca^{2+} release channel (RyR) by etoposide (VP-16) phenoxyl radical. *Antioxidants and Redox Signaling*, 2:73-82, 2000.

Liu, S.-X., **Fabisiak, J.P.**, Tyurin, V.A., Borisenko, G.G., Pitt, B.R., Lazo, J.S., and Kagan, V.E. Redox regulation of intracellular copper by metallothioneins: Reconstitution of ApoSOD by nitric oxide-induced copper transfer. *Chem. Res. Toxicol.*, 13:922-921, 2000.

Kawai, K., Liu, S.-X., Tyurin, V.A., Tyurina, Y.Y., Borisenko, G.G., **Fabisiak, J.P.**, Pitt, B.R., and Kagan, V.E. Antioxidant and anti-apoptotic function of metallothioneins in HL-60 cells challenged with copper-nitriloacetate. *Chem. Res. Toxicol.*, 13:1275-1286, 2000.

Liu, S.-X., Kawai, K., Tyurin, V.A., Tyurina, Y.Y., Borisenko, G.G., **Fabisiak, J.P.**, Quinn, P.J., Pitt, B.R., Kagan, V.E. Nitric oxide-dependent pro-oxidant and pro-apoptotic effect of metallothioneins in HL-60 cells challenged with cupric nitriloacetate. *Biochem. J.*, 354:397-406, 2001.

Kagan, V.E., Tyurin, V.A., Borisenko, G.G., **Fabisiak, J.P.**, Hubel, C.A., Ness, R.B., MacLaughlin, M.K., Roberts, J.M. Mishandling of copper by albumin: Role in redox-cycling and oxidative stress in preeclampsia plasma. *Hypertension in Pregnancy*, 20, 221-241, 2001.

Fabisiak, J.P., Borisenko, G.G., Liu, S.-X., Tyurin, V.A., Pitt, B.R., Kagan, V.E. Redox sensor function of metallothioneins. *Methods in Enzymology*, 353, 268-281, 2002.

Tyurina, Y.Y., Tyurin, V.A., Shvedova, A.A., **Fabisiak, J.P.**, Kagan, V.E. Peroxidation of phosphatidylserine in mechanisms of apoptotic signaling. *Methods in Enzymology*, 352, 160-175, 2002.

Shevedova, A.A., Tyurina, Y.Y., Kawai, K., Tyurin, V.A., Kommineni, C., **Fabisiak, J.P.**, Kagan, V.E. Selective peroxidation and externalization of phosphatidylserine in normal human epidermal keratinocytes during oxidative stress induced by cumene hydroperoxide. *J. Invest. Dermatol.*, 118, 1008-1018, 2002.

Sedlov, A., Kagan, V.E., and **Fabisiak, J.P.** Quantification of oxidative/nitrosative modification of Cys₃₄ in human serum albumin using a fluorescence-based SDS-PAGE assay. *Antioxidants and Redox Signaling*, 4, 855-865, 2002.

Song, R., Kubo, M., Morse, D., Zhou, Z., Zhang, X., Dauber, J.H., **Fabisiak, J.P.**, Zuckerbraun, B.S., Otterbein, L.E., Ning, W., Oury, T.D., Lee, P.J., McCurry, K.R., and Choi, A.M.K. Carbon monoxide induces cytoprotection in rat orthotopic lung transplantation via anti-inflammatory and anti-apoptotic effects. *Am. J. Pathol.*, 163, 231-242, 2003.

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Tyurina, Y.Y., Kawai, K., Tyurin, V.A., Liu, S.-X., Kagan, V.E., and **Fabisiak, J.P.** The plasma membrane is the site of selective phosphatidylserine oxidation during apoptosis: Role of cytochrome c. *Antioxidants & Redox Signaling*, 6, 209-225, 2004.

Gao, F, Barchowsky, A., Nemeč, A., and **Fabisiak, J.P.** Microbial stimulation by *Mycoplasma fermentans* synergistically amplifies IL-6 release by human lung fibroblasts in response to residual oil fly ash (ROFA) and nickel. *Toxicological Sciences*, 81, 467-479, 2004.

Serinkan, B.F., Gambelli, F., Potapovich, A.I., Babu, H., Di Giuseppe, Ortiz, L.A., **Fabisiak, J.P.**, and Kagan, V.E. Apoptotic cells quench reactive oxygen and nitrogen species and modulate TNF- α /TGF- β 1 balance in activated macrophages: involvement of phosphatidylserine-dependent and -independent pathways. *Cell Death and Differentiation*, 12:1141-1144, 2005.

Fabisiak, J.P., Gao, F., Thomson, R.G., Strieter, R.M., Watkins, S.C., and Dauber, J.H. *Mycoplasma fermentans* and TNF- β interact to amplify immune-modulating cytokines in human lung fibroblasts. *Am. J. Physiol. (Lung Cell. Molec. Physiol.)*, 291:L781-L793, 2006.

Shvedova, A.A., **Fabisiak, J.P.**, Kisin, E.R., Murray, A., Roberts, J., Antonini, J., Kommeneini, C., Reynolds, J., Barchowsky, A., Castranova, V., and Kagan, V.E. Sequential exposure to carbon nanotubes and bacteria enhances pulmonary inflammation and infectivity. *Am. J. Respir. Cell Mol. Biol.*, 38:579-590, 2008.

Brant, K., and **Fabisiak, J.P.** Nickel alteration of TLR-2-dependent chemokine profiles in human lung fibroblasts is dependent on cyclooxygenase-2 (COX-2). *Am. J. Respir. Cell Mol. Biol.*, 38:591-599, 2008.

Brant, K.A. and **Fabisiak, J.P.** Nickel and the microbial toxin, MALP-2, stimulate proangiogenic mediators from human lung fibroblasts via a HIF-1 α and COX-2-mediated pathway. *Toxicol. Sci.*, 107:227-237, 2009.

Gao, F. Brant, K.A., Ward, R.M., Cattley, R.T., Barchowsky, A., Brant, K., and **Fabisiak, J.P.** Multiple protein kinase pathways mediate amplified IL-6 release by human lung fibroblasts co-exposed to nickel and TLR-2 agonist, MALP-2. *Toxicol. Appl. Pharmacol.*, 247:146-157, 2010.

Fabisiak, J.P., Medoviv, M., Alexander, D.C., McDunn, J., Concel, V.J., Bein, K., Jang, A. S., Berndt, A., Vuga, L.J., Brant, K.A., Pope-Varzelona, H., Dopico, R.A., Jr., Ganguly K., Upadhyay, S., Li, Q., Kaminski, N., and Leikauf, G.D. Integrative metabolome and transcriptome profiling reveals discordant energetic stress between mouse strains with differential sensitivity to acrolein-induced acute lung injury. *Mol. Nutr. Food Res.*, 55:1423-1434. 2011.

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Leikauf, G.D., Pope-Varvelona, H., Concel, V.J., Liu, P., Bein, K., Berndt, A., Martin, T.M., Ganguly, K., Jang, A.S., Brant, K.A., Dopico, R.A., Jr., Upadhyay, S., Di, Y.P.P., Li, Q., Hu, Z., Vuga, L.J., Medvedovic, M., Kaminski, N., You, M., Alexander, D.C., McDunn, J.E., Prows, D.R., Knoell, D.L., and **Fabisiak, J.P.** Integrative assessment of chlorine-induced acute lung injury. *Am. J. Respir. Cell Molec. Biol.*, 47:234-244, 2012

Brant, K.A., and **Fabisiak, J.P.** Role of HIF1 α and CREB1 in synergistic release of IL8 by PGE2 and nickel in lung fibroblasts. *Am. J. Respir. Cell Mol. Biol.*, 49:105-113, 2013.

Leikauf, G.D., Concel, V.J., Bein, K., Liu, P., Berndt, a., Martin, T.M., Ganguly, K., Jang, A.S., Brant, K.A., Dopico, R.A., Jr., Upadhyay, S., Cario, C.L., Di, Y.P., Vuga, L.J., Kostem, E., Eskin, E., You, M., Kaminski, N., Prows, D.R., Knoell, D.L., **Fabisiak, J.P.** Functional genomic assessment of phosgene-induced lung injury in mice. *Am. J. Respir. Cell Mol. Biol.*, 49:368-383, 2013.

Ganguly, K., Martin, T.M., Concel, V.J., Upadhyay, S., Bein, K., Brant, K.A., George, L., Mitra, A., Thimraj, T.A., **Fabisiak, J.P.**, Vuga, L.J., Fattman, C., Kaminski, N., Schulz, H., Leikauf, G.D. Secreted phosphoprotein (Spp1) is a determinant of lung function development in mice. *Am. J. Cell Mol. Biol.*, 51:637-651, 2014.

Uppala, R., McKinney, R.W., Brant, K.A., **Fabisiak, J.P.**, and Goetzman, E.S. Nickel inhibits mitochondrial fatty acid oxidation. *Biochem. Biophys. Res. Commun.*, 464(4):806-810, 2015

2. Books and Book Chapters

Fabisiak, J.P. and Kelley, J. Platelet-derived growth factor. *IN: Lung Biology in Health and Disease*. ED: Kelley, J. Marcel Dekker, Inc., NY, 61:3-39, 1992.

Kagan, V.E., **Fabisiak, J.P.**, and Tyurina, Y.Y. Independent and concerted antioxidant functions of coenzyme Q. *IN: Coenzyme Q: Molecular Mechanisms in Health and Disease*. EDS: Kagan, V.E., and Quinn, P.J. CRC Press, Inc., Boca Raton, FL, 119-129, 2000.

Fabisiak, J.P., Tyurina, Y.Y., Tyurin, V.A., and Kagan, V.E. Quantification of selective phosphatidylserine oxidation during apoptosis. *Methods in Molecular Biology, Vol. 291: Molecular Toxicology Protocols*, Humana Press, Totowa, NJ, pp. 449-456, 2005.

Fabisiak, J.P., Borisenko, G.G., and Kagan, V.E. Quantitative method of measuring phosphatidylserine externalization during apoptosis using electron paramagnetic resonance (EPR) spectroscopy and annexin-conjugated iron. *Methods in Molecular Biology, Vol. 291: Molecular Toxicology Protocols*, Humana Press, Totowa, NJ, pp. 457-464, 2005.

Fabisiak, J.P., Tyurina, Y.Y., Tyurin, V.A., and Kagan, V.E. Quantification of selective phosphatidylserine oxidation during apoptosis. *Methods in Molecular Biology, Vol. 1105: Molecular Toxicology Protocols*, EDS: Keohavong, P. and Grant, S.G. Springer, New York, NJ, pp. 603-611, 2014.

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3. Published Proceedings

4. Invited Articles

Quinn, P.J., **Fabisiak, J.P.**, and Kagan, V.E. Expansion of antioxidant function of vitamin E by coenzyme Q. *Biofactors*, 9:149-154, 1999.

Kagan, V.E., **Fabisiak, J.P.**, and Quinn, P.J. Coenzyme Q and vitamin E need each other as antioxidants. *Protoplasma*, 214:11-18, 2000.

5. Review Articles

Tyurina, Y.Y., Shvedova, A.A., Kawai, K., Tyurin, V.A., Kommineni, C., Quinn, P.J., Schor, N.F., **Fabisiak, J.P.**, Kagan, V.E. Phospholipid signaling in apoptosis: peroxidation and externalization of phosphatidylserine. *Toxicology*, 148:93-101, 2000.

Kagan, V.E., **Fabisiak, J.P.**, Shvedova, A.A., Tyurina, Y.Y., Tyurin, V.A., Schor, N.F., and Kawai, K. Oxidative signaling pathway for externalization of plasma membrane phosphatidylserine during apoptosis. *FEBS Letters*, 477:1-7, 2000.

Kagan, V.E., Borisenko, G.G., Serinkan, B.F., Tyurina, Y.Y., Tyurin, V.A., Jiang, J., Liu, S.X., Shevedova, A.A., **Fabisiak, J.P.**, Uthaisang, W., and Fadeel, B. Appetizing rancidity of apoptotic cells for macrophages: Oxidation/externalization/recognition of phosphatidylserine. *Am. J. Physiol. (Lung Cell Molec. Physiol.)* 285: L1-L17, 2003.

Fabisiak, J.P. and Goldstein, B. Oil Dispersants and Human Health Effects. While Paper prepared for Workshop entitled. "Dispersant Use Initiative: Dispersant Use During Deepwater Horizon and Moving Forward." Sponsored by Coastal Response Research Center, University of New Hampshire & NOAA, Office of Response & Restoration.

6. Published Abstracts

Fabisiak, J.P., Rannels, S.R., Vesell, E.S. and Rannels, D.E. Receptor-independent sequestration of high-affinity beta adrenergic ligands by intact rat alveolar type II cells in primary culture. *Am. Rev. Respir. Dis.* 131:A377, 1985.

Fabisiak, J.P., Vesell, E.S. and Rannels, D.E. Lamellar bodies as site of cationic amphiphilic drug accumulation by rat alveolar type II cells. *Am. Rev. Respir. Dis.* 133:A293, 1986.

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Fabisiak, J.P., Evans, J.N. and Kelley, J. Early expression of PDGF-B (*c-sis*) mRNA in chronic hyperoxic lung injury. *J. Cell Biol.* 107:478a, 1988.

Fabisiak, J.P., Evans, J.N. and Kelley, J. Enhanced expression of PDGF-B (*c-sis*) mRNA in rat lung tissue during chronic hyperoxia is not mimicked in freshly isolated bronchoalveolar lavage (BAL) cells obtained after oxygen exposure. *Am. Rev. Respir. Dis.* 139:A366, 1989.

Fabisiak, J.P., Absher, M.P. and Kelley, J. Production of platelet-derived growth factor (PDGF)-like cytokines by rat lung fibroblasts in vitro. *Am. Rev. Respir. Dis.* 141:A915, 1990.

Kelley, J., **Fabisiak, J.P.** and Absher, M. Secretion of transforming growth factor- β (TGF- β) by lung fibroblasts. *Am. Rev. Respir. Dis.* 141:A701, 1990.

Fabisiak, J.P. and Absher, M. Rat and human lung fibroblasts show heterogeneous responses to purified platelet-derived growth factor (PDGF) isoforms. *Am. Rev. Respir. Dis.* 143:A523, 1991.

Maholtz, M.S., Banas, R.A., **Fabisiak, J.P.** and Dauber, J.H. Augmentation of blood monocyte IL-1 β production by conditioned media from cultures of lung allograft fibroblasts. *Am. Rev. Respir. Dis.* 145:A272, 1992.

Fabisiak, J.P., Zeevi, A., Powell, G.A., Madison, J.W., Iwaki, Y., Yoshida, Y., Paradis, I., Duncan, S., Griffith, B. and Dauber, J.H. Transbronchial biopsy (TBB)-derived fibroblasts demonstrate potential to modulate the immune and fibrotic responses of chronic lung allograft rejection. *Am. Rev. Respir. Dis.* 145:A639, 1992.

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Weiss, R. D., Dauber, J.H., Zeevi, A., Lee, V.L. and **Fabisiak, J.P.** Increased Interleukin-6 mRNA expression correlates with increased IL-6 production by human lung fibroblasts infected with *Mycoplasma fermentans*. *Am. Rev. Respir. Dis.* 147:A466, 1993.

Weiss, R.D., Dauber, J.H. and **Fabisiak, J.P.** Dexamethasone downregulates interleukin-6 (IL-6) production by human lung fibroblasts infected with *Mycoplasma fermentans* (MF). *Am. J. Respir. Crit. Care Med.* 149:A677, 1994.

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Fabisiak, J.P. Johnson, D., Yalowich, J. and Lazo, J.S. Formation of high molecular weight (HMW) DNA fragments in 32D cells after IL-3 withdrawal. *FASEB Journal*. 9:A925, 1995.

Fabisiak, J.P., Siegfried, J.M., and Lazo, J.S. Modulation of calyculin-A -induced apoptosis in lung cancer cells by serum and cell density. *FASEB Journal*. 10:A179, 1996.

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Schor, N.F., Kagan, V.E., Tyurina, Y.Y., Tyurin, V.A., and **Fabisiak, J.P.** Molecular mechanisms and correlates of bcl-2-mediated potentiation of apoptosis. *Ann. Neurol.*, 44:A64, 1998.

Fabisiak, J.P., Tyurin, V.A., Tyurina, Y.Y., Borisenko, G.G., Korotaeva, A., Pitt, B.R., Lazo, J.S., and Kagan, V.E. Redox regulation of copper-metallothionein. *Toxicologist*, 48:293, 1999.

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Tyurina, Y.Y., Tyurin, V.A., **Fabisiak, J.P.**, Schor, N.F., and Kagan, V.E. Bcl-2 enhances redox impact of neocarzinostatin in PC12 rat pheochromocytoma cells. *Toxicologist*, 48:109, 1999.

Borisenko, G.G., Tyurina, Y.Y., Tyurin, V.A., Yalowich, J., **Fabisiak, J.P.**, and Kagan, V.E. Free radical/antioxidant approach to chemoprevention of etoposide-induced acute myeloid leukemia. *Toxicologist*, 48:107, 1999.

Vogt, A., Wang, A., **Fabisiak, J.P.**, Wipf, P., and Lazo, J.S. Induction of apoptosis in 32D cells by SC- $\alpha\alpha\delta 9$, a novel inhibitor of IGF-1 receptor autophosphorylation. *Proc. Am. Assoc. Cancer Res.*, 40:117, 1999.

Liu, S.-X., **Fabisiak, J.P.**, Tyurin, V.A., Borisenko, G.G., Pitt, B.R., Lazo, J.S., and Kagan, V.E. Nitric oxide-induced copper delivery by metallothioneins to apo-superoxide dismutase. *Toxicologist*, 54:167, 2000.

Kawai, K., Tyurina, Y.Y., Tyurin, V.A., Kagan, V.E., and **Fabisiak, J.P.** Peroxidation and externalization of phosphatidylserine in plasma membrane of HL-60 cells during tert-butyl hydroperoxide-induced apoptosis: Role of cytochrome c. *Toxicologist*, 54:165, 2000.

Kagan, V.E., Tyurina, Y.Y., Tyurin, V.A., Kawai, K., **Fabisiak, J.P.**, Kommineni, C., Castranova, V., and Shvedova, A.A. Oxidative stress in keratinocytes: Role in apoptotic signaling. *Toxicologist*, 54:113, 2000.

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Gao, F. and **Fabisiak, J.P.**, *Mycoplasma fermentans* infection augments IL-6 release in human lung cells exposed to residual oil fly ash and TNF- β . *Toxicologist*, 72:42, 2003.

Brant, K., Pasino, D., and **Fabisiak, J.P.** Potential role of cyclooxygenase-2 (COX-2) in Ni-dependent alterations in release of immune-modulators from human lung fibroblasts (HLF) by TLR-2 agonist, MALP-2 (#69). *Toxicologist CD — An official Journal of the Society of Toxicology*, Volume 96, Number S-1, March 2007.

Brant, K.A., Ward, R.M., and **Fabisiak, J.P.** HIF-1 α and COX-2 mediate synergistic release of angiogenic factors from human lung fibroblasts in response to nickel and microbial stimuli. *Toxicologist*, 102: 428, 2008.

Murray, A.R., Kisin, E., **Fabisiak, J.P.**, Roberts, J.R., Antonini, J.M., Kommineni, C., Reynolds, J., Barchowsky, A., Castranova, V., Kagan, V., and Shvedova, A. Combined exposure to carbon nanotubes and bacteria enhances pulmonary inflammation and infectivity. *Toxicologist*, 102: 307, 2008.

Brant, K.A., Stalter, R.M., and **Fabisiak, J.P.** Differential effects of PGE2 on Nickel and Microbial-driven CXCL8 release from human lung fibroblasts, *Am. J. Resp. Crit. Care Med.*, 177: A731, 2008.

Mathias, C., Brant, K.A., and **Fabisiak, J.P.** Hypoxia-mimetic chemicals and microbial stimuli interact to produce a pro-angiogenic phenotype in human lung fibroblasts (HLF). *The Toxicologist*, 108 (S1), #740, 2009.

Brant, K.A. and **Fabisiak, J.P.** PGE2 facilitates HIF-1 α signaling in human lung fibroblasts to amplify Ni- and vanadium-induced VEGF and CXCL8 release. *The Toxicologist*, 108 (S1), #1780, 2009.

Fabisiak, J.P., Mathias, C., Brant, K.A., and Stalter, R. Fibroblast-endothelial cell co-cultures to assess the effects of chemical and microbial toxins on angiogenic responses. *The Toxicologist*, 108 (S1), #2093, 2009.

7. Presentations, Seminars, & Invited Lectureships

- 1990 **Fabisiak, J.P.**, Evans, J.N., Absher, M. and Kelley, J. Differential production of and response to platelet-derived growth factor (PDGF) by rat and human lung fibroblasts. Presented at the Sixth International Colloquium on Pulmonary Fibrosis, Stowe, VT.
- 1990 **Fabisiak, J.P.**, Evans, J.N., Gannon, D., Absher, M.P. and Kelley, J. Expression of platelet-derived growth factor A-chain (PDGF-A) mRNA in lung tissue and cells:

- Complex regulation during remodeling. Presented at Thomas L. Petty Aspen Lung Conference "Mechanisms of Lung Repair".
- 1993 **Fabisiak, J.P.** Expression of PDGF receptors on human lung fibroblasts and regulation by interleukin-1 β , (IL-1 β), tumor necrosis factor- α (TNF- α), and gamma-interferon (γ -IFN). Presented at the Seventh International Colloquium on Pulmonary Fibrosis, Cambridge, UK.
- 1998 **Fabisiak, J.P.** Bifunctional anti-/prooxidant role of metallothioneins: Redox regulation of copper binding. Presented at Magee Women's Research Institute, Pittsburgh, PA.
- 1999 **Fabisiak, J.P.** Mycoplasma, A "Steath" Pathogen? Lessons from Lung Transplantation. Dept. of Environmental & Occupational Health, University of Pittsburgh.
- 2001 **Fabisiak, J.P.** Microbial & chemical stress interactions: *Mycoplasma fermentans* as a modulator of environmental diseases. Presented at Dept. of Pulmonary Allergy, and Critical Care Medicine, University of Pittsburgh School of Medicine.
- 2004 **Fabisiak, J.P.** Microbial & chemical stress interactions: Mycoplasma synergistically amplify lung fibroblast-derived cytokines in response to endogenous and environmental stimuli. Presented at Div. of Pulmonary Medicine, Children's Hospital of Pittsburgh, Pittsburgh, PA.
- 2005 **Fabisiak, J.P.**, MAP kinase participation in amplified IL-6 release by human lung fibroblasts exposed to Ni and TLR-2 agonist, MALP-2. Poster presentation at Eighth International Meeting on Mechanisms of Action of Inhaled Fibers, Particles, and Nanoparticles in Lung and Cardiovascular Disease. EPA Conference Center, Research Triangle Park, NC.
- 2008 **Fabisiak, J.P.** Environmental and microbial stimuli interact to promote a proangiogenic phenotype in lung fibroblasts: Cooperation of prostanoid- and hypoxia-dependent signaling. Presented at Dept. Envir. & Occup. Health, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA.
- 2009 Leikauf, G.D., Ganguly, K., Upadhyay, S., Bein, K., Brant, K.A., Barchowsky, A., **Fabisiak, J.P.**, Knoell, D.L., Prows, D.R., Sartor, M., Medvedovic, M., Pope-Varsalona, H., Jang, A.S., Schulz, H. Genetical Genomics of Lung Growth, Injury, and Remodeling. Presented at: American Thoracic Society Annual Meeting 2009 May 12 - 15. San Diego, CA.
- 2009 Leikauf, G.D., Bein, K., Concel, V.J., Martin, T.M., Pope-Varsalona, H., Vuga, L., Kaminski, N., Jang, A.S., **Fabisiak, J.P.**, Medvedovic, M., Sartor, M.A., Knoell, D.L., Prows, D.R. Gene-Environment Interactions in Chemical-Induced Acute

- Lung Injury. Presented at: Division of Extramural Research and Training Seminar Series. National Institute of Environmental Health Sciences. 2009 Sep 20 - 21. Research Triangle Park.
- 2009 Leikauf, G.D., Ganguly, K., Bein, K., **Fabisiak, J.P.**, Brant, K.A., Berndt, A., Kaminski, N., Prows, D.R., Upadhyay, S., Martin, T.M., Concel, V.J., Schulz, H. Genetical Genomics of Lung Growth, Injury, and Remodeling. Presented at: Helmholtz Centrum, Institute of Lung Biology 2009 Nov 11 - 14. Munich, Germany.
- 2010 Leikauf, G.D., Bein, K., **Fabisiak, J.P.**, Di, Y., Concel, V.J., Berndt, A., Medvedovic, M., Kaminski, N., Vuga, L., Sartor, M.A., Martin, T.M., Pope-Varsalona, H., Prows, D.R. Genomewide Analysis of Susceptibility Genes for Chlorine-induced Acute Lung Injury in Mice. Presented at: American Thoracic Society Annual Meeting 2010 May 14 - 19. New Orleans LA.
- 2011 Leikauf, G.D., Bein, K., Brant, K.A., Di, Y., Berndt, A., Kaminski, N., Vuga, L., Ganguly, K., **Fabisiak, J.P.** We Still Need Mice, Dissecting the Genetics of Acute Lung Injury. Presented at: Pittsburgh Lung Conference 2011 Oct 10 - 13. Pittsburgh, PA.
- 2011 Leikauf, G.D., Bein, K., Berndt, A., Brant, K.A., Di, Y., Vuga, L., Kaminski, N., **Fabisiak, J.P.** Chemical-induced Acute Lung Injury. Presented at: Lovelace Respiratory Research Institut 2011 Dec 10 - 12. Albuquerque, NM.
- 2011 **Fabisiak, J.P.** Integrative metabolome and transcriptome profiling reveals energetic stress in acute lung injury. Presented at Dept. EOH, GSPH, Univ. of Pittsburgh.
- 2012 **Fabisiak, J.P.** Environmental and microbial stimuli interact to promote a proangiogenic phenotype in lung fibroblasts: Cooperation of prostanoid- and hypoxia-dependent signaling. Presented at 2nd Ann. Aerobiology Working Group, CVC/RBL, University of Pittsburgh.
- 2014 **Fabisiak, J.P.**, Naumoff-Shields, K., Gillooly, S., Rubright, R.T., Malone, S., Lee, M.C., Fan, Z., Liroy, P.J. Assessing potential unconventional natural gas drilling (UNGD)-related Residential Exposures. Invited for Presentation at Symposium entitled Hydraulic Fracturing and its Potential Impact on Environment and Public Health at 2014 Annual meeting for International Society of Exposure Science (ISES), Cincinnati, OH.
- 2014 **Fabisiak, J.P.**, Naumoff-Shields, K., Gillooly, S., Rubright, R.T., Malone, S., Lee, M.C., Fan, Z., Liroy, P.J. Assessing potential unconventional natural gas drilling (UNGD)-related Residential Exposures. Presentation at Reducing Outdoor Contaminants in Indoor Spaces (ROCIS) Forum entitled Creating Healthy Places - Protecting Indoor Spaces from Outdoor Pollution, Pittsburgh, PA.

- 2015 **Fabisiak, J.P.** An Introduction to Air Quality and Health Effects in Southwest Pennsylvania. Presented at Community Forum entitled *Making the Connection: Air Pollution and Heart Health* Sponsored by Group Against Smog and Pollution (GASP) and Breathe Project.

8. Non-Print Media

1. Brown, P., Respiratory, Skin Problems for Those Near Fracking Sites. *MedPage Today* [online news service]. MedPage Today, LLC, 2015, Jan. 17.
<http://www.medpagetoday.com/PublicHealthPolicy/EnvironmentalHealth/49582>
Interview provided to staff writer.
2. Kahn, N. and Frazier, R. Two men. One coal ash dump. No answers. Allegheny Front [Online news service and public radio show].
<http://www.alleghenyfront.org/story/two-men-one-coal-ash-dump-no-answers>
Interview provided to staff writer.

9. Other Publications

1. **Fabisiak, J.P.** and Goldstein, B. *Oil Dispersants and Human Health Effects*. White Paper prepared for Workshop entitled. “Dispersant Use Initiative: Dispersant Use During Deepwater Horizon and Moving Forward.” Sponsored by Coastal Response Research Center, University of New Hampshire & NOAA, Office of Response & Restoration.
<https://crrc.unh.edu/sites/crrc.unh.edu/files/fabisiakgoldstein.pdf>
2. Michanowicz, D., Malone, S., Ferrar, K., Kelso, M., Clougherty, J., **Fabisiak, J.P.**, and Kresky, J. “*Pittsburgh Regional Environmental Threat Analysis (PRETA) Air: Particulate Matter*.” Prepared by Center for Healthy Environments and Communities (CHEC), University of Pittsburgh. Commissioned by the Heinz Endowments. http://www.heinz.org/UserFiles/Library/PRETA_HAPS.pdf
3. Michanowicz, D., Ferrar, K., Malone, S., Kelso, M., Kriesky, J., and **Fabisiak, J.P.** *Pittsburgh Regional Environmental Threat Analysis (PRETA) Air: Hazardous Air Pollutants*. Prepared by Center of Healthy Environments and Communities (CHEC), University of Pittsburgh, Commissioned by the Heinz Endowments.
http://www.heinz.org/UserFiles/Library/PRETA_HAPS.pdf
4. **Fabisiak, J.P.** One cracker = 36,000 cars. Op-Ed in Pittsburgh Post-Gazette. July 17, 2016. <http://www.post-gazette.com/opinion/Op-Ed/2016/07/17/Shell-and-others-shouldn-t-dismiss-community-concerns-about-the-Beaver-County-cracker-plant/stories/201607170023>

SERVICE

1. Service to School and University

Years	Committee	Position
1992-1994	Pulmonary Journal Club	Organizer
1991-1992	Pharmacology Graduate Education Curriculum Committee	Member
1998-1999	EOH Examination and Promotions Committee	Member
1998-1999	EOH Molecular Toxicology Journal Club	Organizer
1999-2002	EOH Colloquium Committee	Chairman
1999-2006	Interdisciplinary Biomed. Graduate Program, Curriculum Committee	Member
2000- Present		
2001-2004	GSPH Seminar and Conference Committee	Member
2004	Dean's Day GSPH Student Research Competition	Judge
2007- Present	GSPH Faculty Appointments, Promotion & Tenure Committee	Member
2008	Faculty Search Committee for Associate Professor, Department of Epidemiology, GSPH, University of Pittsburgh	Member
2010	FAPTC Sub-committee to create Public Health Educators Track	Member
2011	Dean's Day Student Research Competition	Judge
2012	Dean's Day Student Research Competition	Judge
2013	Dean's Day Student Research Competition	Judge
2014	Dean's Day Student Research Competition	Judge
2015	Dean's Day Student Research Competition	Judge
2016	Dean's Day Student Research Competition	Judge
2016	Internal Review Committee for NSF Materials Research Science and Engineering Center (MRSEC) Request for Proposals, Swanson School of Engineering	Reviewer

5. Service to Field of Scholarship

a. Editorial Boards, Editorships

Date	Position	Organization
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b. Manuscript and Other Document/Publication Review

Dates	Journal Title
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Ad hoc manuscript reviewer	American Journal of Respiratory Cell and Molecular Biology, Pediatric Research, American Journal of Physiology, Life Sciences, Journal of Laboratory and Clinical Medicine, Cancer Chemotherapy and Pharmacology, Cancer Research, Chemo-Biological Interactions, Toxicological Sciences, Journal of Pharmacology and Experimental Therapeutics, Free Radical Biology and Medicine, Archives Biochemistry & Biophysics, Leukemia, Biochimica Biophysica Acta, Inhalation Toxicology, Antioxidants and Redox Signaling, Experimental Neurology, Cell Growth and Differentiation, Journal of Neuroscience, Pharmacology & Toxicology, American Review of Respiratory and Critical Care Medicine, Lipids, Journal of Lipid Research, Toxicology In Vitro, Toxicology & Applied Pharmacology, Intl. Jour. Experimental Pathology, Cell Biology & Toxicology, Respiration Research, Risk Assessment, Science of the Total Environment, Environmental Science and Health; Part A, Acta Biomaterialia, Environmental Science & Technology
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c. Study Sections, Review Panels, and Advisory Boards

Date	Position	Organization and Nature of Activity
	Ad hoc Grant Reviewer	Veterans Administration, CMRF(UPMC), Central Research Development Fund, University of Pittsburgh, The Israel Science Foundation, Children’s Hospital of Pittsburgh, U.S. Civilian Research & Development Foundation
August 8-11, 2006	Member of NIH Special Study Section	NIH Special Study Section: CounterACT: Countermeasures to Chemical Threats
April, 2015	E-mail reviewer (1st round review)	Gulf of Mexico Research Initiative (GoMRI), Grant reviewer for RFP-V. Theme 5 (Human/mammalian toxicology and Environmental Health)
July, 2015	Study section panel member (2nd round review)	Gulf of Mexico Research Initiative (GoMRI), Grant reviewer for RFP-V. Theme 5 (Human/mammalian toxicology and Environmental Health) Washington, DC.
March, 2016	Working group member	Human Toxicity subgroup of Public Health working group: “State of the Science for Dispersant Use in Arctic Waters: Public Health and Food Security”. Coastal Response Research Center, University of New Hampshire. Commissioned by NOAA.

d. Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Position	Organization
2009-present	Counselor	Executive Board of Allegheny-Erie Society of Toxicology
2009-present	Chair	Awards Committee for A-E SOT

3, Service for Practice and Policy-Making, including Consultantships

a. Governmental Organizations

Date	Position	Type of Service and/or Agency
Sept 22-23, 2011	Invited participant & white paper author	CRC and NOAA Workshop on Future of Dispersant Use in Oil Spill Response Initiative Mobile, AL
Jan 26-29, 2014	Invited Presenter/Panelist	2014 Oil Spill and Ecosystems Conference Gulf of Mexico Research Initiative (GoMRI) <i>Oil Dispersant Forum: Public Health Perspective</i> , Mobile, AL

b. Non-Governmental and Community-Based Organizations

Date	Position	Type of Service and/or Organization
2013-present	Participant (CHEC representative)	BREATHE Project: Heinz Foundation Air Quality Collaborative
2016-present	Provisional Board Member	Group Against Smog and Pollution (GASP)

4. Non-Professional Service

Year(s)	Position and Organization	Type of Service
2009	North Hill School District	Member – Strategic Planning Curriculum Committee

5. Clinical and Related Activities (OPTIONAL - if applicable)

A. Outpatient: Patient Care

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, precepting, etc.)	<u>TIME DEVOTED TO</u> <u>ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

B. Inpatient: Patient Care

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, precepting, call, surgery, etc.)	<u>TIME DEVOTED TO</u> <u>ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

C. Other Patient Care

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, etc.)	<u>TIME DEVOTED TO</u> <u>ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

