

## CURRICULUM VITAE

NAME: James P. Fabisiak

BUSINESS ADDRESS: Department of Environmental and  
Occupational Health  
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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
1980-1986	Pennsylvania State University, Milton S. Hershey Medical Center, Hershey, PA	PhD	Pharmacology

## 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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2018 – Present	Director	Center for Health Environments & Communities, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA
2014 – 2018	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- American Thoracic Society  
Present
- 2007- Allegheny-Erie Chapter, Society of Toxicology  
Present
- 2009- Society of Toxicology  
Present

## 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

- |                  |  |  |          |
|------------------|--|--|----------|
| 2013-<br>Present | EOH 2180/2181: Introduction to<br>Risk Assessment/Environmental<br>Risk Assessment | 3 credit hours<br>( $\approx$ 30 students) | Director |
| 2000-<br>Present | EOH 2175: Principles of<br>Toxicology  | 3 credit hours<br>( $\approx$ 15 students) | Director |

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2018	ANTH 1750: Undergraduate Seminar: Health and Environment in Pittsburgh	2 hrs lecture 3 credit hours (≈ 17 students)	Guest Lecturer/Instructor
2004- Present	EOH 2013: Health, Disease, & the Environment	3 hrs lecture 3 credit hours (≈120 students)	Guest Lecturer/Instructor
2013- Present	PUBHLT 1003: Introduction to Public & Global Health (undergraduate)	3 hrs lecture 4 credit hours (≈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)

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
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
June – August 2018	Laboratory Rotation for Brandy Hill	Mentor
July 2015 – Present	“Metabolomics” lecture for Fundamentals of Bench Research CLRES 2700 Summer Course	Lecturer
October 24, 2018	(Re)Searching Beyond Academia Office of Undergraduate Research, University of Pittsburgh	Panel Member (1 of 5)

**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>	
Samantha Toton	MPH (in progress)	Lead exposure via consumption Of hunted meat	
Brandy Hill	PhD (in progress)	Studies on Air pollution and AIR Asthma Registry (2019 Deans's Day Winner, Best Overall Poster)	Co-mentor w/ Sally Wenzel

**d. Service on Masters or Doctoral Committees**

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
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**

<b>Dates Served</b>	<b>Student Population</b>	<b>Type of Exam (Qualifying/Comprehensive)</b>
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**

<b>Dates Supervised</b>	<b>Name of Student</b>	<b>Position of Student</b>
1990-1992	Jan Madison, M.D.	Clinical Fellow
1992-1994	Robert D. Weiss, M.D.	Clinical Fellow
2006-2009	Kelly A. Brant, Ph.D	Research Associate

**g. Mentoring of Undergraduate/Graduate Students in Field Placements**

<b>Dates</b>	<b>Name of Student</b>	<b>Degree/Program Description</b>	<b>Field Site</b>
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)			
2017	Erica Jackson	Honors thesis	University of Pittsburgh, Environ. Sci.

\*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**

<b>Dates</b>	<b>Teaching Activity</b>	<b>Program/Description</b>
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

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**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
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
9/16/16 – 9/16/17	CHEC – Regional and Community-based Studies on Environmental Health	Heinz Endowments	\$47,000	30%
12/01/17 – 11/30/19	CHEC – Regional and Community-based Studies on Environmental Health	Heinz Endowment	\$140,000	50%
<b>Multiple PIs</b>				
<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>

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**Co-  
investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
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 (PI V. Kagan)	NHLBI R-01 HL64145	\$225,000	20%
7/1/05-6/30/10	Lung Oxidative Stress Inflammation by Carbon Nanotubes (PI V. Kagan)	NIOSH R-01 OH008282	\$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 (PI G. Leikauf)	NIH-NIEHS U01 ES015675	\$470,000	65%

**Co-  
investigator,  
con't**

<b>Years Inclusive</b>	<b>Grant and/or Contract # and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
9/30/17 – 9/30/20	Identification & Characterization of Environmental Risk Factors for ALS (PI E. Talbott)	CDC-ATSDR R01 TS000272	\$497,804	5%
6/1/19 – 7/1/20	Live Longer: Empowering and Engaging Pittsburgh Communities	Urban Institute/Robert Wood Johnson Foundation	\$53,433 Subcontract from Community Empowerment Assoc. (\$150,000 total budget)	10%

**Other**

<b>Years Inclusive</b>	<b>Grant and/or Contract # and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>Role</b>
1989-1994	Multi-disciplinary Pulmonary Research Training Grant	NIH/NHLBI	\$237,500	Trainer
7/1/07- 6/30/09	T32-HL-07563  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**

## PUBLICATIONS

### 1. Refereed Articles

**Fabisiak, J.P.** and Schwark, W.S. Aspects of the pentylenetetrazol 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- $\beta$  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- $\beta$  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.

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**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 A<sub>2</sub>. *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.**, Tyurin, 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.

Shvedova, 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.



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

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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.

Shvedova, 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 Cys<sub>34</sub> 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.

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., Nemecek, 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- $\alpha$ /TGF- $\beta$ 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- $\beta$  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., Kommineini, 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 $\alpha$  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.**, Medovic, M., Alexander, D.C., McDunn, J., Concel, V.J., Bein, K., Jang, A. S., Berndt, A., Vuga, L.J., Brant, K.A., Pope-Varselona, 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.

Leikauf, G.D., Pope-Varselona, 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

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## 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.

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**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.

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**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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**Fabisiak, J.P.** Perspectives in individual & community risk. In, *Environmental Toxicants*, Fourth Ed., Eds., M. Lippmann & G. Leikauf, Wiley & Sons, New York, N.Y., In Press.

Njah, J., Di Giuseppe, M., Marrocco, A., **Fabisiak, J.P.**, Leikauf, G., and Ortiz, L.A. Mesenchymal stem (stromal) cell communications in their niche and beyond: The role of extracellular vesicles and organelle transfer in lung regeneration. In, *Encyclopedia of Tissue Engineering and Regenerative Medicine*. Vol 2. EDS: R.L. Reis & Gomes, M.E., Academic Press (Elsevier), Cambridge, MA. pp. 229-242, 2019

### 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.

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**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.

Deglin, S., Dickey, R., **Fabisiak, J.P.**, Fall, J.A., French, J., Gohlke, J., Klasing, S., Kwok, R., Lewis, S., Lindemann, K., Masten, S., Wickliffe, J. State-of-the-Science for dispersant Use in Arctic Waters: Public Health and Food Safety. Commissioned by Coastal Response Research Center, University of New Hampshire and NOAA. Posted for Public Comment. [https://crrc.unh.edu/dispersant\\_science](https://crrc.unh.edu/dispersant_science)

## 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.

**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.

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**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.

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**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.

**Fabisiak, J.P.**, Powell, G.A. Paradis, I., Griffith, B. and Dauber, J.H. Growth factor production by human lung fibroblasts: Differential production and responsiveness during lung allograft rejection. *Am. Rev. Respir. Dis.* 147:A156, 1993.

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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.

**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.

**Fabisiak, J.P.**, Ritov, V.B., Johnson, D.E., Lazo, J.S., and Kagan, V.E. Peroxidation and translocation of phosphatidylserine in murine 32D cells undergoing paraquat-induced apoptosis. *Toxicologist*, 36:249, 1997

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.

Tyurin, V.A., Borisenko, G.G., **Fabisiak, J.P.**, Hubel, C.A., McLaughlin, M.K., Roberts, J.M., and Kagan, V.E. Free fatty acid (FFA)-induced mishandling of copper (Cu) by serum albumin in preeclampsia: Contribution to oxidative stress. *Toxicologist*, 48:108, 1999.

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.

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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.

Kagan, V.E., Liu, S.-X., Jiang, J.F., St. Croix, C.M., **Fabisiak, J.P.**, Pitt, B.R. Zn protects metallothionein wildtype (MT +/+) but not metallothionein null (MT -/-) lung fibroblasts against Cu-NTA-induced apoptosis. *Toxicologist*, 60:40, 2001.

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- $\beta$ . *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 $\alpha$  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 $\alpha$  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.

**Fabisiak, J.P.**, Jackson, E.M., Presto, A. Assessing environmental justice and risk-based coronary heart disease (CHD) burden in Allegheny County, PA using high-resolution GIS-based traffic-related air pollution exposure modeling. *International Society of*



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Exposure Science Meeting, 2017, Research Triangle Park, NC.

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Totoni, S., Terry, M., Peterson, J., **Fabisiak, J.P.** Under the radar: Lead exposure via consumption of hunted meat. Am. Public Health Association 2019 Annual Meeting, Nov 2 – 6, 2019, Philadelphia, PA.

<https://apha.confex.com/apha/2019/meetingapp.cgi/Paper/447694>

Byrwa-Hill, B.M., **Fabisiak, J.P.**, Presto, A.A., Wenzel, S. Geospatial association of asthma severity and traffic pollutant exposure in urban and suburban Allegheny County, PA. American Thoracic Association International Conference, May 17 – May 22, 2019.

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Byrwa-Hill, B.M., Presto, A.A., Wenzel, S., and **Fabisiak, J.P.** Acute impact of pollution control breach on asthma control in vulnerable populations near U.S. Steel's Clairton Coke Works following 2018 fire. 33<sup>rd</sup> Annual Meeting of Allegheny-Erie Society of Toxicology Regional Chapter, May 1-2, Pittsburgh, PA.

## 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 $\beta$ , (IL-1 $\beta$ ), tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), and gamma-interferon ( $\gamma$ -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

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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

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- 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 2<sup>nd</sup> 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, Pittsburgh, PA.
- 2016 **Fabisiak, J.P.** Emission Reduction Credits (ERCs): A Tale of Two Facilities. Presented at Allegheny County Clean Air Now (ACCAN) Annual Meeting, Pittsburgh, PA.
- 2016 **Fabisiak, J.P.** Links between air toxics from mobile and point sources in Southwest PA. Presented at webinar entitled "*Links Between Cancer and Early Life Exposures to Environmental Pollutants*" organized by Dept. of Public Health and the Center for Sustainable Production, University of Massachusetts – Lowell.
- 2016 **Fabisiak, J.P.** Petrochemicals: Problematic Progress? Presented at "*Creating Healthy Communities*, Women for a Healthy Environment (WHE), 2016 Conference, Pittsburgh, PA.

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- 2017 **Fabisiak, J.P.** Invited Panelist at *Community Listens: Oil & Gas Impacts – Why Methane Matters*. Community forum.
- 2017 **Fabisiak, J.P.** An Introduction to Air Quality and Health Effects in Southwest PA. Presented to Beaver County Marcellus Action Committee (BCMAC) community meeting, Beaver, PA.
- 2017 **Fabisiak, J.P.** Problematic Progress: Possible Effects of Petrochemical Development on Air Quality and Health in Southwest PA., Presented at Conference: *Fracking in your Local Community: Your Rights and Municipal Responsibilities* sponsored the Municipal Ordinance Project (MOP) and Food and Water Watch., Pittsburgh, PA.
- 2017 **Fabisiak, J.P.**, Air Pollution and Lung Cancer: A Southwest PA Perspective. Presented at LUNG FORCE Expo, American Lung Association, Harrisburg, PA.
- 2017 **Fabisiak, J.P.** Problematic Progress? Possible Effects of Petrochemical Development on Air Quality and Health in Southwest Pennsylvania. Presented for Pitt Science Policy Group (graduate student organization), University of Pittsburgh. Pittsburgh, PA.
- 2017 **Fabisiak, J.P.** Air Pollution, Environmental Justice, and Risk-based Coronary Heart Disease Burden in Allegheny County. Presented at Air Quality Collaborative Meeting, Pittsburgh, PA.
- 2017 Panel Member, Researching the Public Health Impact of an Ethane Cracker and Petrochemical Development. Fifth Annual Conference on Shale and Public Health, Sponsored by League of Woman Voters of PA., Pittsburgh, PA.
- 2017 **Fabisiak, J.P.** Potential Environmental Hazards Associated with Petrochemical Development in Southwest PA. Presented at community meeting: “The Real Health, Economic, Climate Crisis Costs of Fossil Fuels in Southwestern PA. Jewish Community Center, Pittsburgh, PA.
- 2017 Invited participant – “Beat” dinner – Air Pollution, Children, Asthma. Society of Environmental Journalists. Pittsburgh, PA.
- 2018 **Fabisiak, J.P.** Mammalian Toxicology of Oil Dispersant Products (ODPs). Presented to Committee on Evaluation of the Use of Chemical Dispersants in Oil Spill Response, Ocean Studies Board, National Academy of Sciences, Engineering, & Medicine, New Orleans, LA.
- 2018 **Fabisiak, J.P.** Effects of Petrochemical Development on Air Quality in Southwest Pennsylvania. Presented at community meeting - Fracking in the Fox Chapel Area: What to Expect. Fox Chapel Area Fracking Awareness, Fox Chapel, PA.

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- 2018 Panel Member, Public Health Issues Related to Shale Gas Development from Exposure to Epidemiology. At, 2018 Shale Network Workshop – “Integrating Data about Shale Gas Development: Toward a More Collaborative Future. State College, PA.
- 2018 **Fabisiak, J.P.** Radon, air Pollution, and Lung Cancer. Presented at LUNG FORCE Expo, American Lung Association, Pittsburgh, PA.
- 2018 **Fabisiak, J.P.**, Jackson, E., Stacy, S. A semi-quantitative geospatial pollutant-specific exposure metric for use in health studies associated with unconventional natural gas development in Pennsylvania. (Poster). Presented at, HEI Research Planning Workshop: Understanding population-level exposures Related to the Development of Oil and Natural Gas from Unconventional Resources. July 11-12, Denver, CO.
- 2018 **Fabisiak, J.P.**, Jackson, E., Stacy, S. A semi-quantitative geospatial pollutant-specific exposure metric to study birth outcomes associated with unconventional natural gas development in Pennsylvania. Presented at, 2018 League of Woman Voters Shale and Public Health Conference, Pittsburgh, PA.
- 2019 **Fabisiak, J.P.** A risk-based model to assess environmental justice and coronary heart disease burden from air pollutants in Allegheny County. (How many angels can dance on a PM<sub>2.5</sub>). Dept. of Environmental & Occupational Health, University of Pittsburgh.
- 2019 **Fabisiak, J.P.** Carcinogens in the air. Cancer and the Environment Symposium: Priorities for Research, Policy, and Clinical Practice. January 29, 2019, Pittsburgh, PA.
- 2019 **Fabisiak, J.P.** A semi-quantitative geospatial pollutant-specific exposure metric for use in health studies associated with unconventional natural gas development in Pennsylvania. At, 2019 Shale Network Workshop – “Monitoring Communities and Their Environment.” State College, PA.

## 8. Press Coverage and Non-Print Media

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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.
3. Zuidema, T. Ethane Cracker gives Pennsylvania hopes and fears. In *Technischweekblad.nl* (TV.nl), November 11, 2016 (appears in Dutch). <https://www.technischweekblad.nl/achtergrond/ethaankraker-geeft-pennsylvania-hoop-en-angst/item9646>. Interview provided to staff writer.
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19. KDKA afternoon News. Radio interview with Lynne Hayes-Freeland regarding asthma and Clairton Coke Works. Aired June 26, 2019. <https://kdkaradio.radio.com/media/audio-channel/brandy-hill-researcher-and-phd-student-university-pittsburgh-graduate-school>
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A. The Courier-Journal (Louisville, Kentucky) March 6, 2019.

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B. MINNPOST – From new jobs for coal county to the moose’s long decline. March 22, 2019. <https://www.minnpost.com/earth-journal/2019/03/from-new-jobs-for-coal-country-to-the-moose-long-decline-some-great-reads/>

## 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](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](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

<b>Years</b>	<b>Committee</b>	<b>Position</b>
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
2001-2004	GSPH Seminar and Conference Committee	Member
2004	Dean's Day GSPH Student Research Competition	Judge
2007-2011	GSPH Faculty Appointments, Promotion & Tenure Committee (FAPTC)	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
2017	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
2017- Present	GSPH Educational Policies & Curriculum Committee (EPCC)	Member
2019	Faculty Search Committee for Associate Professor (OTS), Department of Environmental & Occupational Health, GSPH, University of Pittsburgh	Member
2019	Faculty Search Committee for Associate Professor (Teaching Track), Department of Environmental & Occupational Health, GSPH, University of Pittsburgh	Member

## 2. 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
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, PLOS One

**c. Study Sections, Review Panels, and Advisory Boards**

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
	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 - present	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**

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<b>Date</b>	<b>Position</b>	<b>Organization</b>
2009-present	Counselor	Executive Board of Allegheny-Erie Society of Toxicology
2009-2018	Chair	Awards Committee for A-E SOT

### **3. Service for Practice and Policy-Making, including Consultantships**

#### **a. Governmental Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Agency</b>
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
Jan 31-Feb 1, 2018	Invited Presenter	Committee on Evaluation of the Use of Chemical Dispersants in Oil Spill Response, Ocean Studies Board, National Academy of Sciences, Engineering, & Medicine, New Orleans, LA.

#### **b. Non-Governmental and Community-Based Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Organization</b>
2013-present	Participant (CHEC representative)	BREATHE Project: Air Quality Collaborative
2016-2017	Provisional Board Member	Group Against Smog and Pollution (GASP)
2017-present	Full Board Member & 2 <sup>nd</sup> Vice President	Group Against Smog and Pollution (GASP)

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**4. Non-Professional Service**

<b>Year(s)</b>	<b>Position and Organization</b>	<b>Type of Service</b>
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)

