

**Investigator(s):**

Annmarie Eldering, Assistant Professor, Department of Civil and Environmental Engineering

**Project Title:**

Demonstration of an Acid Aerosol/Gas Sampler

**Year Funded:**

1995

**Amount Received:**

\$15,000

**Publications:**

Eldering A, Glasgow R. Short term particulate matter mass and aerosol size distribution measurements: Transient pollution episodes and bimodal aerosol mass distributions. *Atmospheric Environment* 1998; 32:2017-2024.

Carolyn Grieves. A study of Denuders for Ambient Ammonia Measurements. M. S. Thesis, 1995.

Mary Hauner. Coatings for Ammonia Measurements with Denuders. M. S. Thesis., 1996.

Ronna Glasgow. Atmospheric Aerosols in Pocatello, Idaho. M. S. Thesis, 1997.

**Grant Awards:**

Atmospheric Aerosols in Polluted, Nonurban, Nonagricultural Settings. Research Planning Grant. National Science Foundation. \$18,000.

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**Investigator(s):**

Peter S. Thorne, Associate Professor, Department of Preventive Medicine and Environmental Health; Jeffrey Lange, Ph.D. Candidate, Department of Preventive Medicine and Environmental Health; Peri Subramanian, Research Scientist, Department of Preventive Medicine and Environmental Health

**Project Title:**

Development of Bioaerosol Sampling Methods Using Molecular Biology and Biochemistry Techniques

**Year Funded:**

1995

**Amount Received:**

\$15,000

**Publications:**

Lange JL, Thorne PS, Lynch N. Application of flow cytometry and fluorescent in situ hybridization for assessment of exposures to airborne bacteria. *Appl Environ Microbiol* 1997; 63(4):1557-1563.

Lange JL, Thorne PS, Kullman GJ. Determinants of viable bioaerosol Concentrations in dairy barns. *Ann Agric Environ Med* 1997; 4:187-194.

Kullman GJ, Thorne PS, Waldron PF, Marx JJ, Ault B, Lewis DM, Siegel PD, Olenchock SA, Merchant JA. Organic dust exposures from work in dairy barns. *Am Ind Hyg Ass J* 1998; 59:403-413.

Jeffrey L. Lange. Bioaerosols: molecular techniques for assessment and determinants of exposure in agriculture. Ph.D. Thesis, 1997.

**Grant Awards:**

Quantification of Airborne Bacteria by Direct Most Probable Number – Polymerase Chain Reaction Center for Health Effects of Environmental Contamination. \$20,000.

Toxicology Core. CDC/NIOSH: Great Plains Center for Agricultural Health CDC U07 CCU 706145 \$443,932.

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**Investigator(s):**

Virend K. Somers, Assistant Professor, Department of Internal Medicine

**Project Title:**

Cardiovascular Reflexes Associated with Exposure to Environmental Tobacco Smoke

**Year Funded:**

1995

**Amount Received:**

\$15,000

**Publications:**

Hausburg M, Mark AL, Winniford MD, Brown RE, Somers VK. Sympathetic and vascular effects of short term passive smoke exposure in healthy non-smokers. *Circulation* 1997; 96:282-287.

Hausberg M, Somers VK. Neural and Circulatory Responses to Carbon Monoxide. *Hypertension* 1997; 29:1114-1118.

Narkiewicz K, van de Borne P, Hausburg M, Cooley R, Winniford MD, Davison DE, Somers VK. Cigarette Smoking Increases Sympathetic Outflow in Humans. *Circulation* 1998; 98:528-534.

**Grant Awards:**

Mechanisms mediating cardiovascular responses to smoking. NIH RO1 HL 61560: \$ 920,000.

Effects of smoking and alcohol on sympathetic activity. NIH SERCA RO3 TWO1148: \$96,000.

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**Investigator(s):**

Charles T. Lutz, Associate Professor, Department of Pathology; Garvin F. Browne, Postdoctoral Research Fellow, Department of Pathology

**Project Title:**

Mechanisms of Thymic Involution Caused by 2,3,7,8-Tetrachlorodibenzo-p-Dioxin and Related Hydrocarbons: Specific Thymus Cell Subsets and Apoptosis

**Year Funded:**

1995

**Amount Received:**

\$15,000

**Publications:**

Lutz CT, Browne GA, Petzold CR. Methylcholanthrene causes increased thymic apoptosis. Toxicology 1998; 128:151-168.

**Grant Awards:**

Novel molecular markers in cervical precancerous lesions. European Union Fifth Framework Multi-centre Programme Pan European. \$40,000.

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**Investigator(s):**

Victor G.J. Rodgers, Assistant Professor, Department of Chemical and Biochemical Engineering; Richard L. Valentine, Associate Professor, Department of Civil and Environmental Engineering

**Project Title:**

The Role of Humic Material in the Removal of Pesticides Using Membrane Technology

**Year Funded:**

1995

**Amount Received:**

\$15,000

**Publications:**

Jones WF, Valentine RL, Rodgers VGJ. Removal of suspended clay from water using transmembrane pressure pulsed microfiltration. J Membrane Science 1999; 157:199-210.