

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2.

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NAME	POSITION TITLE
Kelley J. Donham	Professor
eRA COMMONS USER NAME	

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
The University of Iowa, Iowa City, IA	B.S.	1966	Pre-Med Sci, Chem, Educ
The University of Iowa, Iowa City, IA	M.S.	1970	Prev Med & Environ Health
Iowa State University, Ames, IA	D.V.M.	1971	Veterinary Medicine

**A. Positions and Honors.****Positions**

1971	Volunteer Veterinarian and public health worker, Human and Economic Development, Appalachian Development, Jackson, KY
1972-1973	Captain, Center Veterinarian, U.S. Army Veterinary Corp, Military District of Washington, DC
1973-1985	Instructor (1973), Assistant Professor (1974), Associate Professor (1978), Dept of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Iowa City, IA
1984-1985	Visiting Professor, Dept of Environmental Health, University of Gothenburg, Sweden
1985-1999	Professor, Dept of Prev Med and Environ Health, College of Medicine, University of Iowa
1991	Adjunct Professor, Dept of Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA
1990-present	Associate Director (1990-1993), Director (1994-present), Iowa's Center for Agricultural Safety and Health, Dept of Preventive Medicine and Environmental Health, University of Iowa
1992-present	Associate Director (1992-1996), Deputy Director (1997-present), Great Plains Center for Agricultural Health, Department of Preventive Medicine & Environmental Health, The University of Iowa
1999-present	Professor, Dept of Occup and Environ Health, College of Public Health, University of Iowa

**Honors and Awards**

1984-1985	Visiting Scientist Award, Swedish Work Environment Fund
1983-1986	University of Iowa Faculty Scholars Award
1988	Commitment to Life Award, The National Safe Workplace Institute
1990	JSI Rural Health Research Award, The National Rural Health Association
1995-1996	President, Presidents Award for Leadership
1997	Vice President, International Congress Association of Agricultural Medicine and Rural Health
1971-present	Member, Alpha Zeta honor fraternity in agriculture
1971-present	Member, Phi Zeta honor fraternity in veterinary medicine
1990-present	Executive Board, International Association of Agricultural Medicine and Rural Health
1991-present	Gamma Delta Professional Honorary Fraternity in agriculture
1997-present	Diplomat, American College of Veterinary Preventive Medicine

**B. Selected peer-reviewed publications**

- Donham K, Thorne P. Agents in organic dust: Criteria for a causal relationship. *Am J Ind Med* 1994; 25(1):33-39.
- Hawk C, Donham KJ, Gay J. Pediatric exposure to agricultural machinery: Implications for primary prevention. *J Agromed* 1(1):57-74, 1994.
- Donham KJ, Reynolds SJ, Whitten P, et al. Respiratory dysfunction in swine production facility workers: Dose-response relationships of environmental exposures and pulmonary function. *Am J Ind Med* 27(3):405-418, 1995.
- Schwartz DA, Donham KJ, Olenchock SA, Pependorf WJ, Van Fossen DS, Burmeister LF, Merchant JA. Determinants of longitudinal changes in spirometric function among swine confinement operators and farmers. *Am J Respir Crit Care Med* 151:47-53, 1995.

- Kiekhaefer MS, Donham KJ, Whitten P, Thorne PS. Cross seasonal studies of airborne microbial populations and environment in swine buildings: Implications for worker and animal health. *Ann Agri Environ Med* 2:37-44, 1995.
- Schwartz DA, Merchant JA, Donham KJ, et al. Peak flow as a measure of airway dysfunction in swine confinement operators. *Chest* 107(5):1303-1308, 1995.
- Reynolds SJ, Donham KJ, Whitten P, Merchant JA, Burmeister LF, Pependorf WJ. Longitudinal evaluation of dose-response relationships for environmental exposures and pulmonary function in swine production workers. *Am J Ind Med* 29:33-40, 1996.
- Subramanian P, Reynolds S, Thorne PS, Donham K, Stookesberry J, Thu K. Assessment of airborne ammonia in a swine farming environment by the fluorimetric enzyme method. *Intl J Environ Anal Chem* 64:301-312, 1996.
- Thu K, Donham K, Ziegenhorn R, Reynolds S, Thorne PS, Subramanian P, Whitten P, Stookesberry J. A control study of the physical and mental health of residents living near a large-scale swine operation. *J Agric Safety Health* 3(1):13-26, 1997.
- Reynolds S, Donham K, Stookesberry J, Thorne P, Subramanian P, Thu K, Whitten P. Air quality assessments in the vicinity of swine production facilities. *J Agromed* 4(1/2):37-46, 1997.
- Von Essen S, Thu K, Donham K. Insurance incentives for safe farms. *J Agromed* 4(1/2):125-128, 1997.
- Donham KJ, Venzke JK. Agricultural occupational health nurse training and certification: Addressing the need for occupational health professionals in agricultural environments. *J Agromed* 4(1/2):105-116, 1997.
- Ruskin JC, Donham KJ. Rural counties with large meatpacking firms: Implications for community health. *J Agromed* 4(3/4):231-242, 1997.
- Von Essen SG, Scheppers LA, Robbins RA, Donham KJ. Respiratory tract inflammation in swine confinement workers studied using induced sputum and exhaled nitric oxide. *Clin Toxicol* 36:557-565, 1998.
- Hodne CJ, Thu K, Donham KJ, Watson D, Roy N. Development of the farm safety and health beliefs scale. *J Agric Safety Health* 5(4):396-406, 1999.
- Kiryuchuk S, Donham K, Reynolds S, Burmeister L, Barber E, Thorne P, Senthilselvan A, Rautiainen R. Oil-water sprinkling intervention in a swine building. *International Symposium on Dust Control in Animal Production Facilities*. Danis Institute of Agricultural Sciences, Horsens, Denmark, 1999.
- Donham KJ. The concentration of swine production. Effects on swine health, productivity, human health, and the environment. *Veterinary Clinics of North America: Food Animal Pract* 16(3):559-597, 2000.
- Donham KJ, Cumro D, Reynolds SJ, Merchant JA. Dose-response relationships between occupational aerosol exposures and cross-shift declines of lung function in poultry workers: recommendations for exposure limits. *J Occup Environ Med* 42(3):260-269, 2000.
- Monso E, Magarolas R, Radon K, Danuser B, Iversen M, Weber C, Opravil U, Donham KJ, Nowak D. Respiratory symptoms of obstructive lung disease in European crop farmers. *Am J REspir Crit Care Med* 162(4 pt 1) : 1246-1250, Oct. 2000.
- Cumro D, Donham K, Reynolds S. Synergistic effects of dust and ammonia on the occupational health effects of poultry production workers. *J Agromed* 2001. (in press)
- Donham KJ, Storm J. Agriculture at risk: a report to the nation – a historical review critical analysis and implications for future planning. *J Agric Safety Health* 2001. (in press)
- Radon K, Danuser B, Iversen M, Jörres R, Monso E, Opravil U, Weber C, Donham KJ, Nowak D. Respiratory symptoms in European animal farmers. *Eur Respir J*, 17:747-754, 2001.
- Schneiders S, Donham KJ, Hilsenrath P, Roy N, Thu K. Certified Safe Farm : using health insurance incentives to promote agricultural safety and health. *J Agromedicine* Vol. 8(1) 2001.
- Wheat JR, Donham KJ, Simpson WM, Roy N, Kirkhorn S. Medical education for agricultural safety and health. *J Agromed* (in press)
- Reynolds SJ, Thorne PS, Donham KJ, Croteau EA, Kelly KM, Lewis D, Whitmer M, Heederik DJJ, Douwes J, Connaughton I, Koch S, Malmberg P, Larsson BM, Milton DK. Interlaboratory comparison of endotoxin assays using agricultural dusts. *AIHAJ* (in press)
- Donham KJ, Storm J. Agriculture at risk: a report to the nation - a historical review, critical analysis, and implications for future planning. *J Ag Safety Health*, 2002.
- Donham KJ, Cumro D, Reynolds S. Synergistic Effects of Dust and Ammonia on the Occupational Health Effects of Poultry Workers. *Journal of Agromedicine*, Vol 8(2), 2002.
- Reynolds SJ, Thorne PS, Donham KJ, Croteau EA, Kelly KM, Lewis D, Whitmer M, Heederik DJJ, Douwes J, Connaughton I, Koch S, Malmberg P, Larsson BM, Milton DK. Comparison of Endotoxin Assays Using Agricultural Dusts. *AIHA Journal*, 63:430-438, 2002.
- Radon K, Monso E, Weber C, Danuser B, Iversen M, Opravil U, Donham K, Hartung J, Pedersen S, Garz S, Blainey D, Rabe U, Nowak D. Prevalence and Risk Factors for Airway diseases in Farmers-Summary of Results of the European Farmers' Project. *Annals of Agricultural & Environmental Medicine*, 9(2):207-213, 2002.

**C. Research Support.**ONGOING

1U50/OH07548-01 (Sanderson, PI)	09/30/90-09/29/06 (continuation of center begun 09/30/90) \$979,288
CDC/NIOSH Great Plains Center for Agricultural Health To conduct multidisciplinary research; to develop and evaluate novel disease and injury prevention models and outreach intervention programs in Federal Region VII; to train health professionals; to provide technical assistance and consultation to Federal Region VII; and to maintain and strengthen linkages with agricultural health and safety professions in the state, the region, nationally, and internationally.	
<u>Administrative Core</u> Role: Center Deputy Director – Outreach	\$133,339
<u>Evaluation of Organic Dust Aerosols (O'Shaughnessy, PI)</u> Role: Co-Investigator	\$95,329
<u>Education and Outreach</u> Role: Core Director	\$80,451
<u>Certified Safe Farms for Iowa Dairy Farmers (Rautiainen, PI)</u> Role: Con-Investigator	\$40,815
<u>Certified Safe Farms Elder Farmers (Donham, PI)</u> Role: Project Director	\$150,000 (09/01/04-08/31/07)
T42/CCT722958-01 (Sprince, PI)	07/01/00-06/30/08
CDC/NIOSH Occupational Safety and Health Training Grant - Education and Research Center (ERC) Heartland Center for Occupational Safety and Health The major goal of the Center will be to provide graduate training, continuing education and outreach in occupational safety and health to serve Federal Region VII (IA, KS, MO, NE). Agricultural Training Program Role: Program Director	\$1,260,717
53624000 (Donham, PI) Iowa Board of Regents Iowa's Center for Agricultural Safety and Health (ICASH) To promote health and prevent illness and injury among farmers, farm workers and their families. Role: Principal Investigator	07/01/90-present \$255,998
5883CA02 (Donham, PI) CDC/IDPH Comprehensive Assessment of Rural Health in Iowa (CARHI) Role: Principal Investigator	10/01/02 -08/31/05 \$722,572
5 D43 TW00621-07 (Cook, PI) Fogarty International Center / NIH Iowa International Research & Training in Environmental & Occupational Health The overall purpose of this project is to build global capacity and collaboration to better understand, investigate, control and prevent environmental and occupational health problems in developing countries and the United States. Role: Principal Investigator	09/30/95-04/30/06 \$232,564
(Donham, PI) CDC/NIOSH Certified Safe Farm – Evaluating Health Insurance Claims	09/01/03-08/31/07 \$180,000

A new business arrangement with Iowa Farm Bureau Federation and Wellmark Blue Cross Blue Shield of Iowa will assist in the development and evaluation of an effective intervention program called Certified Safe Farm. The intervention is a unique combination of services including a clinical screening for occupational and health risks, a safety inspection and rating of farms, and individual and family health education, including the selection and proper use of personal protective equipment.

COMPLETED

478-40-10 (Thorne, PI) 10/10/03-06/30/04  
Iowa State University  
Science-Based Risk Assessment for Approval of Genetically Engineered  
Non-Food Crops

(Donham, PI) 04/01/98-04/30/02  
US Department of Agriculture  
A Model Research and Educational Project to Promote Pork Production – Air Quality (Donham, PI)  
Role: Principal Investigator

(Sprince, PI) 07/01/94-06/30/01  
NIOSH  
Graduate Training Programs  
-- Industrial Hygiene  
Role: Professor, Ag Health

U06 CCU717552-04 (Donham, PI) 08/01/99-07/31/03  
NIOSH / CDC  
Certified Safe Farms - Prospective Research and Sustainability

HRSA

2001-01-13 (Donham, PI) 06/10/01-06/01/02  
Wellmark Foundation  
New Frontiers: Certified Safe Farm Expansion in Iowa and South Dakota  
This summit will establish the parameters that will ensure that CSF services remain economically viable after the research and Wellmark demonstration pilot phase.  
Role: Principal Investigator

5 K01 OH00176-03 (O'Shaughnessy, PI) 04/01/99-03/31/02  
NIOSH  
Ventilation Control to Reduce Airborne Contaminants  
The overall goal of this research is to determine the feasibility of using the general ventilation produced by fans in a swine confinement to mitigate levels of airborne contaminants in that particular work environment.  
Role: Principal Investigator  
Preparing PA Students for Practice with Homeless and Rural Populations and Development of New Minority Recruitment Strategies  
Role: Project Director/Professor