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## BIOGRAPHICAL SKETCH

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NAME Daniel S. Longnecker	POSITION TITLE Professor of Pathology, Active Emeritus		
eRA COMMONS USER NAME (credential, e.g., agency login) DANIEL S LONGNECKER			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
University of Iowa, Iowa City, IA	AB	08/54	Premedical Science
University of Iowa, Iowa City, IA	MD	06/56	
City Hospital, Cleveland, OH	Internship	07/56-06/57	Rotating
Western Reserve Univ., Cleveland, OH	Residency	07/57-06/59	Anatomic Pathology
University of Iowa, Iowa City, IA	Residency/MS	07/59-06/62	Path/Biochemistry

### A. Personal Statement

Because of my interest in an academic career, I undertook graduate work in Biochemistry during and following Pathology training. Postdoctoral training (NIH Special Fellowship) in Pittsburgh with Emmanuel Farber was focused on chemically-induced pancreatitis in rats and later led indirectly to development of a chemically-induced rat model of pancreatic acinar cell carcinomas at Dartmouth and subsequent work with other pancreas cancer models in hamsters and transgenic mice. During the work with animal models, I continuously compared the findings in animals with the human disease leading to several studies based on human tissues. My research has remained focused on pancreatic disease throughout my career extending into the emeritus years.

### B. Positions and Honors

#### Positions and Employment

1962-1968	Assistant Professor, Dept. of Pathology, College of Med., U. of Iowa, Iowa City, IA (on leave 1965-1967)
1965-1967	Special Fellowship (NIH), Dept. of Pathology, Univ. of Pittsburgh; Pittsburgh, PA
1968-1969	Associate Professor (Pathology), Depts. of Pathology and Pharmacology (Oakdale Toxicology Center), University of Iowa, Iowa City, IA
1969-1972	Associate Professor, Dept. of Pathology, School of Medicine, St. Louis University, St. Louis, MO
1972-2001	Professor, Dept. of Pathology, Dartmouth Medical School, Hanover, NH
2001-present	Professor, Active Emeritus, Dept. of Pathology, Dartmouth Medical School, Hanover, NH

#### Other Experience and Professional Memberships

1963-present	American Society of Clinical Pathologists
1968-present	US-Canadian Academy of Pathology
1972-present	American Society for Investigative Pathology
1972-present	American Pancreatic Association
1976-present	American Association for Cancer Research
1978-1979	Guest worker, Laboratory of Toxicology, National Cancer Institute; Bethesda, MD
1978-1981	Member, National Advisory Environmental Health Sciences Council
1980-1983	American Pancreatic Association, Councillor
1981-1984	Member, Merit Review Board for Basic Sciences, Veterans Administration
1984-1989	Member, Pancreas Cancer Working Group, Organ Site Coordinating Center
1985-1988	Member, NIH Study Section, Chemical Pathology
1986 (6 mo)	Visiting Scientist, CIVO Institutes TNO, Zeist, Netherlands
1987-1988	American Pancreatic Association, President
1989-1993	Member, National Toxicology Program Board of Scientific Counselors

1989-1992	Member, Scientific Advisory Committee on Personnel for Research, American Cancer Society
1989-present	International Association of Pancreatology
1990-1994	Council, International Association of Pancreatology, Member
1992-1997	Program Committee, American Association of Investigative Pathology, Member

### **C. Selected Peer-reviewed Publications (Selected from 159 peer-reviewed publications)**

#### **Most relevant to the current application**

1. Longnecker DS and Curphey TJ: Adenocarcinoma of the pancreas in azaserine-treated rats. *Cancer Res* 35:2249-2258, 1975.
2. Longnecker DS, Kuhlmann ET and Curphey TJ: Effects of four retinoids in N-nitrosobis(2-oxopropyl)amine-treated hamsters. *Cancer Res* 43:3226-3230, 1983.
3. Schaeffer BK, Zurlo J and Longnecker DS: Activation of c-K-ras not detectable in adenomas or adenocarcinomas arising in rat pancreas. *Mol Carc* 3:165-170, 1990.
4. Longnecker DS, Kuhlmann ET and Freeman DH Jr: Characterization of the elastase 1-simian virus 40 T-antigen mouse model of pancreatic carcinoma: effects of sex and diet. *Cancer Res* 50: 7552-7554, 1990.
5. Grippo PJ, Nowlin PS, Demeure MJ, Longnecker DS, Sandgren EP. Preinvasive pancreatic neoplasia of ductal phenotype induced by acinar cell targeting of mutant Kras in transgenic mice. *Cancer Research* 63(9):2016-2019, 2003.
6. Hruban RH, Adsay NV, Albores-Saavedra J, Anver MR, Biankin AV, Boivin GP, Furth EE, Furukawa T, Klein A, Klimstra DS, Kloppel G, Lauwers GY, Longnecker DS, Luttges J, Maitra A, Offerhaus GJA, Pérez-Gallego L, Redston M, Tuveson DA. Pathology of genetically engineered mouse models of pancreatic exocrine cancer: Consensus report and recommendations. *Cancer Res* 66:95-106, 2006.
7. Carriere C, Seeley ES, Goetze T, Longnecker DS, Korc M. The Nestin progenitor lineage is the compartment of origin for pancreatic intraepithelial neoplasia. *Proc Natl Acad Sci USA* 104(11):4437-42, 2007.
8. Carriere C, Young AL, Gunn JR, Longnecker DS, Korc M. Acute pancreatitis markedly accelerates pancreatic cancer progression in mice expressing oncogenic Kras. *Biochemical & Biophysical Research Communications* 382(3):561-5, 2009.
9. Ji B, Tsou L, Wang H, Gaiser S, Daniluk J, Chang DZ, Bi Y, Grote T, Longnecker DS and Logsdon CD. Ras Activity Levels Control the Development of Pancreatic Diseases. *Gastroenterology* 137(3):1072-1082, 2009.

#### **Additional recent publications of importance to the field (in chronological order)**

1. Hruban RH, Adsay NV, Albores-Saavedra J, Compton C, Garrett E, Goodman SN, Kern SE, Klimstra DS, Kloppel G, Longnecker DS, Luttges J, Offerhaus GJA. Pancreatic intraepithelial neoplasia (PanIN): A new nomenclature and classification system for pancreatic duct lesions. *Am. J. Surg. Pathology* 25(5):579-586, 2001.
2. Hruban H, Takaori K, Klimstra DS, Adsay NV, Albores-Saavedra J, Biankin AV, Biankin SA, Compton C, Fukushima N, Furukawa T, Goggins M, Kato Y, Klöppel G, Longnecker DS, Lüttges J, Maitra A, Offerhaus GJA, Shimizu M, Yonezawa S. An illustrated consensus on the classification of pancreatic intraepithelial neoplasia (PanIN) and intraductal papillary mucinous neoplasms (IPMNs). *Am J of Surg Pathol* 28(8):977-987, 2004.
3. Davidson TS, Longnecker DS, Hickey WF. An experimental model of autoimmune pancreatitis in the rat. *American Journal of Pathology*, 166(3):729-736, 2005.
4. Furukawa T, Adsay NV, Albores-Saavedra J, Fukushima N, Horii A, Hruban RH, Kato Y, Klimstra DS, Klöppel G, Longnecker DS, Lüttges J, Offerhaus GJA, Shimizu M, Sunamura M, Suriawinata A, Takaori K, Yonezawa S. Consensus Nomenclature and Criteria for Classification of Subtypes of Intraductal Papillary-Mucinous Neoplasm of the Pancreas. *Virchows Archiv*, 447:794-799, 2005.
5. Longnecker DS, Adsay NV, Fernandez-del Castillo C, Hruban R, Kasugai T, Klimstra DS, Klöppel G, Lüttges J, Memoli VA, Tosteson TD, Yanagisawa A, Wilentz R and Zamboni G. Histopathological Diagnosis of PanIN and Intraductal Papillary-mucinous Neoplasms: Interobserver Agreement. *Pancreas* 31:344-349, 2005.
6. Seeley ES, Carrière C, Goetze T, Longnecker DS, Korc M. Pancreatic cancer and precursor pancreatic intraepithelial neoplasia lesions are devoid of primary cilia. *Cancer Res* 69(2):422-430, 2009.

## **D. Research Support**

### **Completed Research Support**

Dr. Longnecker's research has been supported by NIH RO1 grants and contracts (the last ending in the 1990s) and private foundation grants. Indirect support has been provided by the NIH Funded Norris Cotton Cancer Center. Recent work has been supported by grants held by investigators with whom he has collaborated.