

# Kathleen Elizabeth DelGiorno

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## **EDUCATION:**

**PhD: State University of New York at Stony Brook, Molecular Genetics and Microbiology (2012)**

Dissertation: "Causes and effects of epithelial morphogenesis in pancreatitis and pancreatic cancer".

Committee: Dr. Martha Furie (Chair), Dr. Adrianus van der Velden, Dr. Wei-Xing Zong, Dr. Mikala Egeblad, Dr. Howard Crawford (advisor)

**MS: University of Florida, Pharmacy (2008)**

**BS: The United States Air Force Academy, Biology (2005)**

## **AWARDS:**

1. **Pioneer Award**, Salk Institute, 3/2017
2. **Salk Cancer Center Pilot Award** 8/2016 (50K)
3. **NIH T32 Fellow**, Salk Institute, 3/2016-3/2017, NCI training grant (5T32CA9370-34)
4. **Travel award**, to speak at the Biology of Cancer: Microenvironment, Metastasis & Therapeutics, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 2015
5. **Travel award**, PancWest Conference, Oregon Health and Sciences University, OR, 2014
6. **NIH T32 Fellow**, Graduate program in Molecular Genetics and Microbiology, 6/2011-2013, NCI training grant (5T32CA9176-33)
7. **Poster of Distinction**, 43rd Annual Meeting of the American Pancreatic Association, 2012
8. **Service Award**, Graduate program in Molecular Genetics and Microbiology, 2011
9. **Air Force Achievement Medal**, 2007, Biological Research Officer

## **RESEARCH EXPERIENCE:**

1. **The Salk Institute for Biological Studies**, La Jolla, CA, 7/2017-  
Senior Research Associate, Dr. Geoffrey Wahl Laboratory, pancreatic cancer research
2. **The Salk Institute for Biological Studies**, La Jolla, CA, 3/2016-7/2017  
Post-Doctoral Research Fellow, Dr. Geoffrey Wahl Laboratory, pancreatic cancer research
3. **Fred Hutchinson Cancer Research Center**, Seattle, WA, 6/13-01/16  
Post-Doctoral Research Fellow, Dr. Sunil Hingorani Laboratory, pancreatic cancer research
4. **Mayo Clinic**, Jacksonville, FL, 12/2012-06/2013

Post-Doctoral Research Fellow, Dr. Howard Crawford Laboratory, pancreatic cancer research

5. **Mayo Clinic**, Jacksonville, FL, 11/2011-12/2012  
Doctoral Candidate, Dr. Howard Crawford Laboratory, pancreatic cancer research
6. **State University of New York at Stony Brook**, Stony Brook, NY, 6/2008-11/2011  
Doctoral Candidate, Dr. Howard Crawford Laboratory, pancreatic cancer research
7. **The Translational Genomics Research Institute**, Phoenix, AZ, 03/2007-08/2008  
Research Associate II, Genetic Basis of Human Disease  
Pancreatic Cancer Biospecimen Repository Coordinator
8. **Air Force Technical Applications Center**, Patrick AFB, FL, 06/2005-03/2007  
Second Lieutenant, Research Biologist, United States Air Force
9. **United States Air Force Academy**, Colorado Springs, CO, 8/2004-6/2005  
Undergraduate Researcher. Dr. Erick Snellman Laboratory
10. **Los Alamos National Laboratory**, Los Alamos, NM, 05/2004-06/2004  
Summer Research Internship

#### **PROFESSIONAL TRAINING:**

**Workshop on Pancreatic Cancer**, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 06/2011

#### **PUBLICATIONS:**

1. Dufort CC, **DelGiorno KE**, and Hingorani SR. “Mounting pressure in the microenvironment: Fluids, solids, and cells in pancreatic ductal adenocarcinoma”. *Gastroenterology*, 2016. 150:1545-1557.
2. **DelGiorno KE**, Dufort CC, Carlson MA, Osgood RJ, Zhao C, Huang Z, Thompson CB, Connor RJ, Thanos CD, Brockenbrough CJ, Provenzano PP, Frost GI, Shepard HM, and Hingorani SR. “Interstitial pressure in pancreatic ductal adenocarcinoma is dominated by a gel-fluid phase”. *Biophysical Journal*, 2016. 110:2106-2119.
3. Liou GY, Doppler H, **DelGiorno KE**, Zhang L, Leitges M, Crawford HC, Murphy MP, and Storz P. “Mutant KRas-induced mitochondrial oxidative stress in acinar cells upregulates autocrine EGFR signaling to drive formation of pancreatic precancerous lesions”. *Cell Reports*, 2016. 14(10):2325-36
4. Whittle MC, Izeradjene K, Rani PG, Feng L, Carlson MA, **DelGiorno KE**, Wood LD, Goggins M, Hruban RH, Chang AE, Calses P, Thorsen SM, and Hingorani SR. “RUNX3 controls a metastatic switch in pancreatic ductal adenocarcinoma”. *Cell*, 2015. 161:1-16.
5. Wu CC, Carpenter ES, Takeuchi KK, Halbrook CJ, Peverley LV, Bien H, Hall JC, **DelGiorno KE**, Pal D, Song Y, Shi C, Lin RZ and Crawford HC. “PI3K regulation of RAC1 is required for Kras-induced pancreatic tumorigenesis”. *Gastroenterology*, 2014. 147:1405-1416.
6. **DelGiorno KE**, Carlson M, Osgood R, Provenzano PP, Brockenbrough S, Thompson CB, Shepard HM, Frost GI, Potter JD and Hingorani SR. “Response to Chauhan et al.: Interstitial pressure and vascular collapse in pancreas cancer – fluids and solids, measurement and meaning”. *Cancer Cell*, 2014. 26: p.16-17.

7. Stromnes I, **DelGiorno KE**, Greenburg PD, and Hingorani SR. “Stromal re- engineering to treat pancreas cancer”. *Carcinogenesis*, 2014. 35: p. 1451-1460.
8. Bailey JM, **DelGiorno KE**, and Crawford HC. “The Secret Origins and Surprising Fates of Pancreas Tumors”. *Carcinogenesis*, 2014. 35: p. 1436-1440.
9. **DelGiorno KE**, Tam JW, Hall JC, Thotakura G, Crawford HC and van der Velden AWM. “Persistent salmonellosis causes pancreatitis in a murine model of infection”. *PLoS One*, 2014. 9: p.e92807.
10. **DelGiorno KE**, Hall JC, Takeuchi KK, Pan FC, Halbrook CJ, Washington, MK, Olive KP, Spence JR, Sipos B, Wright CVE, Wells JM, and Crawford HC. “Identification and manipulation of biliary metaplasia in pancreatic tumors”. *Gastroenterology*, 2014. 146: p.233-244 e5.
11. Ali WH, Chen Q, **DelGiorno KE**, Su W, Hall JC, Honqu T, Tian H, Kanaho Y, Di Paolo G, Crawford HC, and Frohman MA. “Deficiencies of the lipid- signaling enzymes phospholipase D1 and D2 alter cytoskeletal organization, macrophage phagocytosis, and cytokine-stimulated neutrophil recruitment”. *PLoS One*, 2013. 8: p.e55325
12. Ardito CM, Gruner BM, Takeuchi KK, Lubeseder-Martellato C, Teichmann N, Mazur PK, **DelGiorno KE**, Carpenter ES, Halbrook CJ, Hall JC, Pal D, Briel T, Herner A, Trajkovic-Arsic M, Sipos B, Liou GY, Storz P, Murray NR, Threadgill DW, Sibia M, Washington MK, Wilson CL, Schmid RM, Raines EW, Crawford HC and Siveke JT. “EGF receptor is required for KRAS-induced pancreatic tumorigenesis”. *Cancer Cell*, 2012. 22: p.304-317.
13. Bombardelli L, Carpenter ES, Wu AP, Alston N, **DelGiorno KE**, and Crawford HC. “Pancreas-specific ablation of beta1 integrin induces tissue degeneration by disrupting acinar cell polarity”. *Gastroenterology*, 2010. 138: p.2531-40, 2540 e1-4.

#### **TALKS:**

1. **DelGiorno KE**, Shi C, and Hingorani SR. (2015) “Interstitial fluid pressure reflects extracellular matrix content and vascular integrity in human pancreas cancers”. Talk presented at Biology of Cancer: Microenvironment, Metastasis, & Therapeutics. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
2. **DelGiorno KE**, Chung C, Ridinger M, Tsui C, Ohmoto M, Matsumoto I, and Wahl GM. (2017) “Chemosensory tuft cells as immune modulators in pancreatitis and pancreatic tumorigenesis”. Talk presented at Mechanisms and Models of Cancer. The Salk Institute for Biological Studies, La Jolla, CA.