

Curriculum Vitae

Karen Held Hales, Ph.D.

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Education

Colorado State University, Fort Collins, CO. B.S. 1979.
University of Colorado Health Sciences Center, Denver, CO. Ph.D. 1985.

Professional Experience

1979-85 Ph.D. Research, Department of Pathology
University of Colorado Health Sciences Center, Denver, CO
Regulation of viral gene expression in murine embryonal carcinoma cells

1985-89 Postdoctoral Fellow, Department of Microbiology and Immunology
University of Michigan, Ann Arbor, MI
Regulation of RNA processing: poly(A) site selection in the adenovirus 2 major late transcription unit

1989-1995 Postdoctoral Fellow, Department of Biochemistry
University of Illinois at Chicago
Regulation of RNA processing and ovarian mRNA transport of *Drosophila* tropomyosin

1995-2001 Research Assistant Professor, Department of Physiology and Biophysics
University of Illinois at Chicago
Mechanisms of inhibition of testosterone synthesis by the immune system
Role of P-ser43 and P-ser45 in cardiac troponin I activity

2005-2007 Adjunct Professor, Science Department, Triton College, River Grove, IL

2007-2008 Instructor, Department of Biology, Northeastern Illinois University

2008-2009 Assistant Professor, Department of Biology, Northeastern Illinois University

2009-2014 Assistant Professor, Department of Physiology, Southern Illinois University

2014- Assistant Professor, Department of Obstetrics and Gynecology, Southern Illinois University.
Molecular and epigenetic control of early events in ovarian carcinogenesis

Grant Activity

2014-2017	Team Science Grant, Simmons Cancer Institute at SIU, Co-Pi (Brard, Hales, K Hales) "Flaxseed as maintenance therapy for ovarian cancer patients in remission" \$100,000
2012-2018	Art Ehrmann Cancer Fund Research Grant, "The role of senescent cells in the development of ovarian cancer" \$5000
2015-2016	Research Seed Grant, Simmons Cancer Institute at SIU "Development of a tissue culture toolbox for the hen model of epithelial ovarian cancer" \$15,000

Awards

1979-81	NIH Predoctoral Fellowship
1981-84	Graduate Teaching Assistantship, University of Colorado
1985-86	Thurnau Postdoctoral Fellowship
1988-1990	National Research Service Award
2012	Fraternity of Eagles

Teaching Activities

Thesis Supervisor SIUC

Scott Geiger	2010-	M.S. Thesis
Sheree Speckman	2010-2015	PhD Dissertation

Thesis committees SIUC

6 PhD dissertation committees

5 MS thesis committees

Medical Student (MPEE), Undergraduate research trainees SIUC

2014- 8

Recent Publications (of 30)

1. Pui-Wah Choi, Wai Wing So, Junzheng Yang, Shubai Liu, Ka Kui Tong, Kin King Kwan, Jamie, S-L Kwok, Stephen KW Tsui, Shu-Kay Ng, **Karen H. Hales**, Dale B. Hales, Gregory J. Goodall, William R. Welch, Christopher P. Crum, Wing-Ping Fong, Ross S. Berkowitz and Shu-Wing Ng, "MiR-200 family governs ovarian inclusion cyst formation and mode of ovarian cancer spread". Accepted Oncogene, March 2020.
2. Purab Pal, **Karen Hales**, Jim Petrik, Dale Buchanan Hales, "Pro-apoptotic and anti-angiogenic actions of 2-methoxyestradiol and docosahexaenoic acid, the biologically derived active compounds from flaxseed diet, in preventing ovarian cancer." Journal of Ovarian Research <https://doi.org/10.1186/s13048-019-0523-3>
3. Casaco, AP, Palomo, AG, Hales, DB, **Hales KH**, Fernandez, LE "Detection and characterization by immunohistochemistry of the NGcGM3 ganglioside in the chicken animal model of ovarian cancer." Journal of Oncology Translational Research (in press 2017)
4. Dikshit, A, Hales, KH, Hales, DB "Whole flaxseed diet alters estrogen metabolism to promote 2-methoxyestradiol-induced apoptosis in hen ovarian cancer" J Biochemical Nutrition 42: 117-125 (2017)