

FACULTY PROFILE

Dr. Beth Scaglione Sewell

Associate Professor of Biology

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Education

B.A - Simpson College (1985) Ph.D. - Kansas State University (1992)

Research Interests

Cells Beth Scaglione Sewell's research investigates the regulation of growth and differentiation of cells. Specifically she has been interested in regulators of the mammalian cell cycle that are adversely affected in colon cancer cell culture models. Techniques utilized in the laboratory include, Western Blotting, Northern Blotting, cell culture, enzyme assays and some electron microscopy.

Publications

- A Vitamin D3 analog induces a G1-Phase arrest in CaCo-2 cells by inhibiting Cdk2 and Cdk6: Roles of Cyclin E, p21Waf1 and P27Kip1., *Endocrinology* 141:3931-3939., (2000)
- Decreased PKC-alpha expression increases cellular proliferation and enhances the transformed phenotype of CaCo-2 cells, *Cancer Research* 58:1074-1081., (1998)

Books

- "Review of the Aging of Physiological Systems." In: *Gerontological Nursing: Competencies for Care*. - Plahuta, Janice, Hamrick-King, Jennifer and Beth Scaglione-Sewell. Ed. Kristen L. Mauk. Boston: Jones and Bartlett Publishers; 2010. pp.128-231.

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