

Benjamin Haley
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Education

University of Illinois, B.S. in Honors Biology, 2005
School of Liberal Arts and Sciences, Champaign/Urbana, IL
Major G.P.A. 3.64/4.0

Relevant Coursework

Cellular Biology, Chemistry, Physics, Calculus, Statistics

Independent Study

Discrete Mathematics, Probability, Python, HTML, JavaScript

Experience

Information Manager - Northwestern University | Chicago, IL | Aug 2008 – Present

Department of Radiation Oncology

- Currently creating a searchable [web portal](#) for Argonne's Irradiated Dog Tissue Archives using Microsoft Access, php, JavaScript, HTML and MySQL
- Responsible for lab website maintenance and updating profiles

Technician - Northwestern University | Chicago, IL | Nov 2005 - Jan 2008

Department of Radiation Oncology

- Wrote and submitted for publication a review of literature on hnRNP and Ionizing radiation (citation below)
- Performed RNA-cleavage experiments with titanium dioxide nanocomposites
- Formalized protocols, trained, taught and supervised six students in cell culture, PCR, and rt-PCR
- Maintained PC-12 cell lines, media preparations, cryopreservation and cell counting
- Performed DNA, and RNA isolation, PCR and rt-PCR, and data analysis on tissues isolated from 'wasted' PCNA +/- mice to study DNA repair gene regulation pathways in response to ionizing radiation.
- Maintained mouse-facilities, ordered lab supplies, prepared lab for safety inspections, kept account of inventory and expenditures, performed machine maintenance and calibration, and oversaw major shipments and equipment installations.

Lab Assistant - University of Illinois | Champaign/Urbana, IL | Sept 2003- Aug 2005

Veterinary Medicine

- Assisted in research on circadian signal transduction between SCN cells
- Performed time trials of co-cultured cells, *in vitro*, using rt-PCR to characterize isolated mRNA expression profiles
- Tested for changes of cell proliferation/death rates, *in vitro*, in various sera using the MTT assay
- Isolated brain tissue slices of the SCN, genotyped and assisted in the handling of mice

Skills

Computer:

- Python: controls, data structures, error handling, classes, OS interface, xml parsing, url retrieval, email protocol (SMTP), XML parsing, and regular expressions
- Microsoft Access: creating and editing tables, performing relational queries
- HTML and JavaScript: forms, tables, style sheets, attributes, linking, basic validation, control statements, and DOM access

Publications

Benjamin Haley, Tatjana Paunesku, Miroslava Protić, & Gayle E Woloschak. Response of heterogeneous ribonuclear proteins (hnRNPs) to ionizing radiation and their involvement in DNA damage repair. *Submitted 2008*.

Eric M.B. Brown, Tatjana Paunesku, AiGuo Wu, K. Ted Thurn, **Benjamin Haley**, Jimmy Clark, Taisa Priester, Gayle E Woloschak. Methods for assessing DNA hybridization of peptide nucleic acid-titanium dioxide nanoconjugates. *Analytical Biochemistry* 383(2):226-235, 2008.

Barbara Szolc-Kowalska, Irka Templeton, **Benjamin Haley**, Angela Babbo, Tatjana Paunesku and Gayle E Woloschak. Expression of the Proliferating Cell Nuclear Antigen (PCNA) in Lymphoid Tissues of Radiosensitive "Wasted" Mice. *International Journal of Radiation Biology* 66(3):595-596 2006.

Personal Interests

Team Coordinator | Chicago, IL | Summers 2006 & 2007

Chicago Cares and Friends of River, Lathrop River Garden Project

Adventurer | San Diego, CA - Fort Bragg, CA | April 2008 - July 2008

Bicycle trip up the coast of California

References

Gayle Woloschak

Northwestern University - Professor, Radiation Oncology

(630) 842-5060 - g-woloschak@northwestern.edu

Tanja Paunesku

Northwestern University - Assistant Professor, Radiation Oncology

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