

Jack A. Vincent, Ph.D.

Curriculum Vitae

University of Washington Tacoma
Interdisciplinary Arts and Sciences
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Education

Ph.D., Molecular and Cellular Biology Program, University of Washington and Fred Hutchinson Cancer Research Center (Seattle, WA), January 2008

- Dissertation title: Facilitation of DNA replication by the Isw2 and Ino80 ATP-dependent chromatin-remodeling complexes

B.S., Biology, Indiana University (Bloomington, IN), May 2000

Teaching Experience**Lecturer, University of Washington-Tacoma (September 2011-present)**

- TESC 110: General Biology
 - autumn quarter 2011, spring & autumn 2012, summer 2013
- TESC 120: Introductory Biology I
 - winter 2012 (2 sections), autumn 2013
- TESC 130: Introductory Biology II
 - winter (2 sections) & spring 2013
- TESC 370: Genetics and Society
 - autumn 2013, summer & autumn 2013
- TESC 406: Introduction to Biochemistry II
 - spring 2012
- TESC 422: Evolution
 - autumn 2011, summer 2012; spring 2013

Visiting Assistant Professor, University of Puget Sound

- BIOL 311: Genetics
 - spring semesters 2009-2011, summer session 2011
- BIOL 111: Unity of Life
 - fall semesters 2008 & 2010
- BIOL 361: Biochemical Pathways
 - winter semesters 2009-2010

Adjunct Professor, Seattle University

- BIO 101: Introductory Biology
 - winter quarter 2008

Teaching Assistant, University of Washington-Seattle

- MICROM 302: General Microbiology Laboratory
 - summer quarter 2003
- BIOC 442: Biochemistry II
 - spring quarter 2003

Undergraduate Teaching Intern, Indiana University

- L311: Genetics
 - fall & spring semester 1999-2000

Service (University of Washington Tacoma)

Academic & career advising

- Faculty Advisor for Environmental Science and Environmental Studies majors, 2012-2013
- Faculty Mentor, Student Success Mentoring Program
 - Student: Luan Dang; 2012-present
 - Student: Sem Chan; 2013-present

Student project advising

- Faculty Advisor, TESC 498 Directed Readings, summer 2012
- Faculty Advisor, TESC 496, Student internship
 - Student: Kelly Hatfield-Burmaz; project title: “Cost effective recycling for Bethel School District”; summer 2012-spring 2013
- Faculty Advisor, TESC 499, Undergraduate Research
 - Student: Jessica Dennis; topic: Species identification in environmental isolates of dinoflagellates; will start winter 2014

Staff searches

- Scientific Instructional Technician, Environmental Sciences program, summer 2012 & summer 2013 (two searches)

Work groups

- Environmental Studies curriculum workgroup; winter 2013-present

Curriculum development and revisions

- Created new laboratory exercises for TESC110 General Biology
- Created laboratories for option of offering TESC422 Evolution as laboratory-based class

Teaching Professional Development

- Part of team application for NW PULSE meeting and curriculum planning workshop (application not accepted)
- GRDSCH 630: “Teaching and Learning in Higher Education”, University of Washington, winter quarter, 2007

Outreach

- Panel member for Math-Science Leadership Program’s 10th grade “DNA Detectives” team; summer 2013

Research training & subject of research

- Dissertation research, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, April 2002-January 2008, Advisor: Toshio Tsukiyama
 - Functions of ATP-dependent chromatin remodeling complexes during DNA replication in budding yeast
- Research Associate, Department of Biology, Indiana University, June 2000-July 2001, Advisor: James Drummond
 - *In vitro* studies of the mechanism of DNA mismatch repair
- Undergraduate Research Associate, Department of Biology, Indiana University, June 1999-May 2000, Advisor: Miriam Zolan
 - Identification of *RAD50* mutants and characterization of their meiotic phenotypes in the basidiomycete, *Coprinus cinereus*

Research Publications

- Au TJ, Rodriguez J, **Vincent JA**, Tsukiyama T. 2011. ATP-dependent chromatin remodeling factors tune S-phase checkpoint activity. *Mol Cell Biol.* 31(22): 4454-4463.
- Acharya SN, Many AM, Schroeder AP, Kennedy FM, Savytsky OP, Grubb JT, **Vincent JA**, Friedle EA, Celerin M, Maillet DS, Palmerini HJ, Greischar MA, Moncalian G, Williams RS, Tainer JA, Zolan ME. 2008. *Coprinus cinereus rad50* mutants reveal an essential structural role for Rad50 in axial element and synaptonemal complex formation, homolog pairing and meiotic recombination. *Genetics.* 180(4): 1889-1907.
- **Vincent JA**, Kwong TJ, Tsukiyama T. 2008. ATP-dependent chromatin remodeling shapes the DNA replication landscape. *Nat Struct Mol Biol.* 15(5): 477-484.
- Duquette ML, Handa P, **Vincent JA**, Taylor AF, Maizels N. 2004. Intracellular transcription of G-rich DNAs induces formation of G-loops, novel structures containing G4 DNA. *Genes Dev.* 18(13): 1618-1629.

Conference Presentations

- **Vincent JA**, Tsukiyama, T. 2006. ATP dependent chromatin remodeling promotes DNA replication during replication stress. FASEB Summer Research Conferences: Yeast Chromosome Structure, Replication & Segregation; June 24-29; Indian Wells, CA.
- Acharya SN, **Vincent JA**, Grubb JT, Schroeder AP, Friedle EA, Celerin M, Zolan ME. Checkpoint arrest in *rad50* mutants of *Coprinus cinereus*. 2001. FASEB Summer Research Conferences: Genetic Recombination and Chromosome Rearrangements; July 21-26; Snowmass, CO.
- Acharya SN, **Vincent JA**, Celerin M, Zolan ME. 2000. Isolation of the *rad50* gene of *Coprinus cinereus*. Cold Spring Harbor 65th Symposium: Biological Responses to DNA Damage; May 31-June 5; Cold Spring Harbor, NY.

Honors & Awards

- IAS Teaching Funds, University of Washington-Tacoma Interdisciplinary Arts and Sciences, December 2012
- Cellular and Molecular Biology Training Grant, National Institute of General Medical Sciences and University of Washington, July 2004-June 2007
- Honorable Mention, National Science Foundation Graduate Research Fellowship, March 2003
- *Magna Cum Laude*, Indiana University, May 2000