

Brett K. Kaiser, Ph.D.

Assistant Professor of Biology | College of Science and Engineering
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EDUCATION

Stanford University	Ph.D. in Cancer Biology Ph.D. advisor: Peter K. Jackson Dissertation title: Regulation of the centrosome and DNA replication cycles by the human Cdc14A and B phosphatases.	2002
University of California, Davis	B.S. in Biochemistry (with honors) Minor in Spanish Advisor: Dr. Michael Dahmus Honors Research Project: Identification of proteins that interact with the CTD of RNA Polymerase II using a photoactivatable cross-linking approach.	1996

APPOINTMENTS

SEATTLE UNIVERSITY	Seattle, WA	
Assistant Professor	Biology Department	2012–present
	Research: Structure/function relationships of proteins using biochemical and biophysical approaches.	
PREGENEN INC. (<i>acquired by Bluebird Biotech</i>)	Seattle, WA	2012
Principal Scientist	Research: Development of Pregenen's protein engineering platform.	
TARGETED GROWTH INC. (<i>now Matrix Genetics</i>)	Seattle, WA	2010-2012
Scientist	Research: Genetic engineering of cyanobacteria (<i>S. elongatus</i> PCC7942) for increased hydrocarbon production.	
FRED HUTCHINSON CANCER RESEARCH CENTER	Seattle, WA	

PUBLICATIONS (Peer-reviewed)

H-index=12 | Research Gate score: 26.18. | Total citations: 1,641

Kaiser, B.K., Carleton, M., Hickman, J.W., Miller, C., Lawson, D., Budde M., Warrener, P., et al. (2013) "Fatty aldehydes in Cyanobacteria are a metabolically flexible precursor for a diversity of biofuel products." *PloS one*

Kaiser, B. K., Zimmerman, Z. A., Charbonneau, H., and Jackson, P. K. (2002). Disruption of centrosome structure, chromosome segregation, and cytokinesis by misexpression of human

RESEARCH GRANTS AND FUNDING

External Research Funding

Murdock College Research Program for Life Sciences.

“Characterization of WhiA, a bacterial transcriptional regulator with a unique evolutionary history.”

Awarded March, 2014 for 2 years. \$32, 200

Other financial support obtained

- Cancer Research Institute (CRI) Post-doctoral Fellowship | 2004-2006
- University of Washington Dept. of Immunology, Post-doctoral
Pediatric Immunology Fellowship 2004
- Lieberman Fellowship, Stanford University 2001-2002

PRESENTATIONS

Since arriving at Seattle U:

- “A study of the structure and function of WhiA, a bacterial transcriptional regulator”. 2014
Brad Walker (Seattle U undergrad) and Brett Kaiser
Murdock Undergraduate Research Symposium, Vancouver, WA
Poster presentation
- “Engineered Nucleases: the cutting edge in genome engineering”. 2014
Brett Kaiser
Seattle U
Oral presentation to Bannan Scholars
- “Turning selfish proteins into programmable genome editors”. 2014
Jazmine Richter*, Betty Shen, Abbie Lambert, Barry Stoddard, Brett Kaiser
Experimental Biology conference, San Diego, CA.
Poster presentation
- “Turning selfish proteins into programmable genome editors”. 2013
Jazmine Richter*, Betty Shen, Abbie Lambert, Barry Stoddard, Brett Kaiser
Murdock Undergraduate Research Symposium, Vancouver, WA
*Oral presentation by Jazmine Richter (Seattle U undergrad)
- “Taming the beast: domestication of a selfish protein”. 2013
Brett Kaiser
Natural Science Seminar, Seattle U
Oral presentation

Selected Honors, Awards and Fellowships

Summer 1996 Post-graduate Research Fellowship, Northern California Biochemical Association

1996 Presidential Undergraduate fellowship, UC Davis

1995-96