

John Favate
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EXPERIENCE

Visiting Scientist at the American Museum of Natural History, 2015-2017

In the lab of Dr. Eunsoo Kim, conducted research into the environmental conditions and molecular mechanisms that may have lead to the endosymbiosis event that created the first photosynthetic Eukaryotic organisms. The lab uses electron and light microscopy, genomics approaches, flow cytometry, and protein analysis. Additionally, the lab studies molecular and genetic phylogeny, systematics, evolution, and modern day symbiosis.

Graduate Research at The Cancer Institute of New Jersey, 2015-2016

In the lab of Dr. Sharon R. Pine, conducted research into the response of SOX9 to certain kinds of DNA damage in non-small cell lung carcinoma. Work involved designing and testing assays to examine the potential colocalization of two proteins during a DNA damage response caused by applying UV radiation via a laser microdissection microscope and subsequent analysis using confocal microscopy.

Undergraduate Researcher at University of Delaware; Newark, DE, 19809, 2013-2014

Participated in and carried out experiments and research regarding interaction between prostate cancer cells and bone marrow stromal cells in conjunction with Ph.D candidate, in the lab of Dr. Robert A. Sikes. Work included Eukaryotic and Prokaryotic cell culture and cell line maintenance, cell counting, western blots, protein assays, plasmid/virus analysis, gel electrophoresis, PCR, photospectroscopy.

EDUCATION

Rutgers University, New Brunswick, New Jersey — MBS Biomedical Sciences, 2016

University Of Delaware, Newark, DE — B.A. Biology with Biochemistry minor, 2014

SKILLS

General knowledge of computers and programs for data/image analysis.

Skilled in woodworking, metal working and welding, composite material construction.

PUBLICATIONS

1. Miles, F. et al. Transforming growth factor- β signaling induced during prostate cancer cell death and neuroendocrine differentiation is mediated by bone marrow stromal cells. Prostate 75, 1802–1813 (2015).

2. Graham et. al. *Algae Third Edition*, 2016, photomicrograph of an organism appearing at page 16-13.
3. Unpublished manuscript in progress; Amber Paasch, John A. Burns, John Favate, Solange Duhamel, O. Roger Anderson, Eunsoo Kim. A marine phago-mixotrophic green alga selectively obtains phosphorous from bacterial prey.