
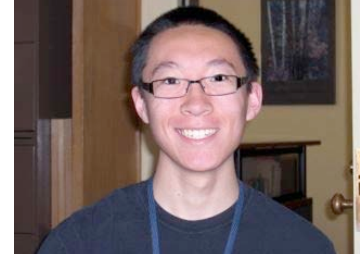






# What's New in Biochemistry

## PERSONNEL CHANGES:

	Joshua Karchin completed his PhD degree in Stewart Loh's lab and accepted a position at Glaxo SmithKline.
	Daniel Loh has left his Student Assistant position in Michael Cosgrove's lab to return to his undergraduate studies at Yale.
	Illari Delgado joined Bruce Knutson's lab as a Student Assistant.
	Skyler Gold joined Steve Hanes' lab as a Student Assistant.

## Protein-like Nanoparticles Based on Orthogonal Self-Assembly of Chimeric Peptides.

Jiang L, Xu D, Namitz KE, Cosgrove MS, Lund R, Dong H.

Small. 2016 Aug 9. doi: 10.1002/sml.201600910. [Epub ahead of print]

<http://onlinelibrary.wiley.com/doi/10.1002/sml.201600910/abstract;jsessionid=3B9BB95290B8F931BC5EAF80B0AD8894.f01t03?systemMessage=Due+to+essential+maintenance+the+subscribe%2Frenew+pages+will+be+unavailable+on+Wednesday+26+October+between+02%3A00+-+08%3A00+BST%2F+09%3A00+%E2%80%93+15%3A00++SGT%2F+21%3A00-+03%3A00+EDT.+Apologies+for+the+inconvenience.>

## Structural and functional basis of protein phosphatase 5 substrate specificity.

Oberoi J, Dunn DM, Woodford MR, Mariotti L, Schulman J, Bourbouli D, Mollapour M, Vaughan CK.; Proc Natl Acad Sci U S A. 2016 Aug 9;113(32):9009-14. doi: 10.1073/pnas.1603059113. Epub 2016 Jul 27.

<http://www.pnas.org/content/113/32/9009.long>

## Tbx3 represses bmp4 expression and with Pax6 is required and sufficient for retina formation.

Motahari Z, Martinez-De Luna RI, Viczian AS, Zuber ME.; Development. 2016 Aug 30. pii: dev.130955. [Epub ahead of print]

<http://dev.biologists.org/content/143/19/3560.long>

## PUBLICATIONS:

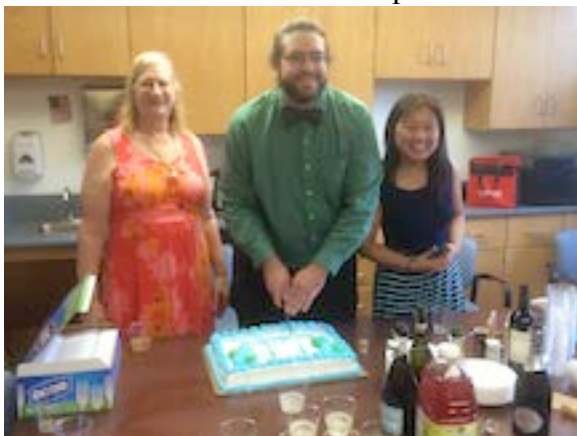
Nilda L. Alicea-Velázquez, Stephen A. Shinsky, Daniel M. Loh, Jeong-Heon Lee, David G. Skalnik, and Michael S. Cosgrove "Targeted Disruption of the Interaction Between WD-40 Repeat Protein 5 (WDR5) and Mixed Lineage Leukemia (MLL)/SET1 Family Proteins Specifically Inhibits MLL1 and SETd1A Methyltransferase Complexes", JBC Papers in Press. Published on August 25, 2016 as Manuscript M116.752626. The latest version is at:

<http://www.jbc.org/cgi/doi/10.1074/jbc.M116.752626>

## AWARDS, RECOGNITIONS, AND OTHER ACTIVITIES:

Congratulations to Ashley Canning who won second place for her poster at the Biomedical Sciences Retreat on September 15<sup>th</sup>.

Congratulations to Joshua Karchin who successfully defended his PhD thesis on September 9<sup>th</sup>!



Josh's mother (left), Josh (center), and his wife, Jing (right).

Sergio couh-cardel presented at the Gordon Research Conference, Synaptic Transmission, held in Waterville Valley, NH, August 14-19<sup>th</sup>. His poster title was: "The V-ATPase c-ring acts as an ion-conducting pore suggesting a direct involvement in neurotransmitter release." Sergio was also the discussion leader in a session titled: Presynaptic Mechanisms of Neurotransmission.

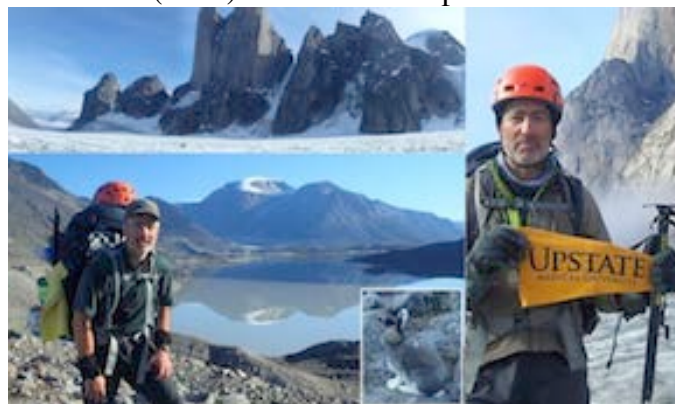
Steven Hanes gave a talk on the Bin3 Methyltransferase at the 4<sup>th</sup> International Meeting on La and Related Proteins (LARPs) in Wiltshire, UK on September 15, 2016, and a seminar on the Ess1 Prolyl Isomerase at the Department of Biochemistry, Oxford University, UK on September 19, 2016. In between he got to see Stonehenge.



The above photo is the part of the Radcliffe Camera (built 1737-1749), part of Oxford's Bodleian Library

## PERSONAL NEWS:

Steve Hanes and two others, T. Benner (Ithaca) and S. Roberge (Ottawa) completed a three week trek in the Auyuittuq Park Wilderness on Baffin Island in the Canadian Arctic. Carrying everything you need for three weeks was not easy, but the rewards were worth it: mountains, glaciers, arctic scenery and solitude (no cell service or email!). Crossing glacier-fed rivers was the biggest danger. Polar bears were not seen (thankfully) but the arctic hare are almost as big. Steve will be giving an informal slide show (TBA) to the BMB Department.



Steve Hanes at the Auyuittuq Park Wilderness on Baffin Island in the Canadian Arctic

Congratulations to Patty's son, Zach, who was officially named a National Merit Semi-finalist. This is a big honor and Patty is very proud of him. <http://www.cbasyracuse.org/three-students-named-semifinalists-in-national-merit-scholarship-program/>



Zach Popp (second from right)

Stuti Sharma participated in the 8<sup>th</sup> Annual Syracuse Iron Girl Competition at Oneida Shores on Sunday, August 7<sup>th</sup>. Nearly 700 women competed in the triathlon, which included a 600-meter swim, 30K bike ride, and a 5K run.



Stuti after the race

### Ice Shelf. ....Steve”



Steve’s arrival in Antarctic.



Stuti on right and Heather Nelson on left. Heather is a PhD student in Anatomy & Cell Biology who was the winner in the competitive wave with an overall time of 1:25:03.7.



The big tent in the distance is the main heated living quarters with kitchen, laboratory, and sleeping quarters. Steve’s little red tent in the foreground. He slept there the other night and froze his butt off (as he stated) (-20°F outside).

Steve Hanes is on a temporary leave of absence to do research in the Antarctic. Penny received the following email from Steve on October 24<sup>th</sup>.

“We often have to go out at midnight to refuel ice melting equipment (for dive holes), so the 24 hour light is nice. In the big Jamesway tent we have dark window shades and most of us sleep with earplugs (5 of us sleeping in a room the size of my office) and eyeshades. We are having a really good season here so far, divers collecting samples, and we are all getting along well. There was a death at McMurdo Station that probably made the news up there. We are not directly effected by it, but are saddened because we met that research group and PI who died (snowmobile fell into a crevasse) near the Ross



This is Katie, one of the divers, chipping freshwater ice for melting (for washing up).

Kevin Namitz is a dad! Rhiannon Allegra was born on Monday, October 17, 2016 at 12:11 am. She weighed 7 lbs., 7.5 oz. and was 20” long.



Rhiannon Allegra Namitz

Nick Stam married Katie Latanyshyn at Holy Family Church in Auburn on October 22<sup>nd</sup>. The reception was at Springside Inn. For their honeymoon, they took a week and started in Stowe, VT and then road tripped later that week (stopping at a couple places on the way) down to Boston for a few days.



Nick Stam and his new wife, Katie



Cherry Ignacio, Steven Berry, Elizabeth Hoffman, Nilda Alicea-Velazquez, Ryan O'Dell, Stephen Shinsky, Samantha Miller, and Andrew McCulley at Nick's wedding.

### NEWS ABOUT ALUMNI:

Penny received the following email from Dr. Kelly Salinas, who completed her PhD with Mark Schmitt:

“On 10/9/16 I completed my 6th marathon. What's special about this one was that I knocked 30 minutes off my previous best time, and qualified for the 2018 Boston Marathon! My time was 3:31:17 (more than 13 minutes under the threshold needed to qualify). Next up is the New York City Marathon on 11/6/16. :) Other than that, things are good. Prospering at the job (been here almost 8 years already)- I love the work I do. Brisa is now 17 and a senior deciding on college; Michael is 14, and Liliana is 8. Time flies, but I miss my time at Upstate, which influenced me tremendously. :)”



Kelly Salina after her qualifying race