

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Seth S. Margolis, Ph.D.

DEMOGRAPHIC INFORMATION:

Professional Appointments:

Assistant Professor, Department of Biological Chemistry
Johns Hopkins University School of Medicine
09/2011 - current

Personal Data:

Laboratory address:
725 N. Wolfe Street, 516 WBSB
Baltimore, MD 21205
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Education and Training:

1993-1997	BS/University of Rochester, Rochester NY	Biochemistry
1999-2005	PhD/Duke University, Durham, NC	Molecular Cancer Biology
2006-2011	Postdoc/Harvard Medical School, Boston, MA	Neurobiology

Professional Experience:

1995 Summer Research Scholar, Phytera. Inc., Worcester, MA
1995 Research Assistant, University of Rochester, Rochester, NY
1997-1999 Laboratory Technician, University of Massachusetts Medical School, Worcester, MA

RESEARCH ACTIVITIES:

Peer Reviewed Publications:

- 1) Soma S.R. Banik, Chuanhai Guo, Allyson C. Smith, **Seth S. Margolis**, D. Ashley Richardson, Carlos A. Tirado and Christopher M. Counter. C-terminal regions of the human telomerase catalytic subunit essential for in vivo enzyme activity. Mol Cell Biol. 2002 Sep; 22(17):6234-46.
- 2) Susan Walsh, **Seth S. Margolis**, Sally Kornbluth. Phosphorylation of the Cyclin B1 cytoplasmic retention sequence by mitogen-activated protein kinase and Plx. Mol Cancer Res. 2003 Feb; 1(4):280-9.
- 3) **Seth S. Margolis**, Susan Walsh, Douglas C. Weiser, Minoru Yoshida, Shirish, Shenolikar, and Sally Kornbluth. PP1 control of M phase entry exerted through 14-3-3-regulated Cdc25 dephosphorylation. EMBO J. 2003 Nov3; 22(21):5734-45.
- 4) **Seth S. Margolis**, Sally Kornbluth. When the Checkpoints Have Gone: Insights into Cdc25 Functional Activation. Cell Cycle. 2004 Apr; 3(4):425-428.

- 5) Leta K. Nutt*, **Seth S. Margolis***, Meta Jensen, Catherine E. Herman, William G. Dunphy, Jefferey C. Rathmell, and Sally Kornbluth. Metabolic regulation of oocyte cell death through the CaMKII-mediated phosphorylation of caspase-2. *Cell*. 2005 Oct 7; 123(1):89-103. (Cover article).

Comment in "Cell"

Lipinski MM, Yuan J. (2010) A cellular response to an internal energy crisis. *Cell*. 7;123(1):3-5.

- 6) **Seth S. Margolis***, Jennifer A. Perry*, Douglas H. Weitzel, Christopher D. Freel, Minoru Yoshida, Timothy A. Haystead, and Sally Kornbluth. A role for PP1 in the Cdc2/Cyclin B-mediated positive feedback activation of Cdc25. *Mol Biol Cell*. 2006 Apr; 17 (4): 1779-89.
- 7) **Seth S. Margolis***, Jennifer A. Perry*, Craig M. Forester*, Leta K. Nutt, Yanxiang Guo, Melanie J. Jardim, Michael J. Thomenius, Christopher D. Freel, Rashid Darbandi, Jung-Hyuck Ahn, Jason D. Arroyo, Xiao-Fan Wang, Shirish Shenolikar, Angus C. Nairn, William G. Dunphy, William C. Hahn, David M. Virshup, and Sally Kornbluth. Role for the PP2A/B56delta phosphatase in regulating 14-3-3 release from Cdc25 to control mitosis. *Cell*. 2006 Nov 17; 127(4):759-73.
- 8) Zachary T. Schafer, Amanda B. Parrish, Kevin M. Wright, **Seth S. Margolis**, Jeffrey R. Marks, Mohanish Deshmukh, and Sally Kornbluth. Enhanced Sensitivity to Cytochrome c-Induced Apoptosis Mediated by PHAPI in Breast Cancer Cells. *Cancer Res*. 2006 Feb 15; 66 (4): 2210-2218.
- 9) Qiju Wu, Yanxiang Guo, Ayumi Yamada, Jennifer A. Perry, Michael Z. Wang, Marito Araki, Christopher D. Freel, Jeffrey J. Tung, Wanli Tang, **Seth S. Margolis**, Peter K. Jackson, Hiroyuki Yamano, Maki Asano, and Sally Kornbluth. A role for Cdc2- and PP2A-mediated regulation of Emi2 in the maintenance of CSF arrest. *Curr Biol*. 2007 Feb 6; 17(3):213-24.
- 10) Jessie Yanxiang Guo, Ayumi Yamada, Taisuke Kajino, Judy Qiju Wu, Wanli Tang, Christopher D. Freel, Junjie Feng, B. Nelson Chau, Michael Zhuo Wang, **Seth S. Margolis**, Hae Yong Yoo, Xiao-Fan Wang, William G. Dunphy, Pablo M. Irusta, J. Marie Hardwick, and Sally Kornbluth. Aven-dependent activation of ATM following DNA damage. *Curr Biol*. 2008 Jul 8; 18(13):933-42.
- 11) Leta K. Nutt, Marisa R. Buchakjian, Eugene Gan, Rashid Darbandi, Sook-Young Yoon, Judy Q. Wu, Yuko J. Miyamoto, Jennifer A. Gibbon, Josh L. Andersen, Christopher D. Freel, Wanli Tang, Changli He, Manabu Kurokawa, Yongjun Wang, **Seth S. Margolis**, Rafael A. Fissore and Sally Kornbluth. Metabolic control of oocyte apoptosis mediated by 14-3-3zeta-regulated dephosphorylation of caspase-2. *Dev Cell*. 2009 Jun; 16(6):856-66.
- 12) **Seth S. Margolis***, John Salogiannis*, David M. Lipton, Caleigh Mandel-Brehm, Zachary P. Wills, Alan R. Mardinly, Linda Hu, Paul L. Greer, Jay B. Bikoff, Hsin-Yi Henry Ho, Michael J. Soskis, Mustafa Sahin, Michael E. Greenberg. EphB mediated degradation of the RhoA GEF Ephexin5 relieves a developmental brake on excitatory synapse formation. *Cell*. 2010 Nov 29; 143 (4): 442-55

Comment in "Cell"

Dalva MB.(2010) Expecting excitatory synapse development. *Cell*. 29;143(3):341-2.

*These authors contributed equally

Inventions, Patents, Copyrights:

"METHOD FOR DETERMINING ACTIVATORS OF EXCITATORY SYNAPSE FORMATION", Provisional Patent Application No. US 13/881,910 filed October 26, 2010, Issued October 17, 2013.

Extramural Funding:

2012-2014 Correcting synapse loss in the Alzheimer's disease brain, A2012070

BRIGHTFOCUS Foundation — \$150K, PI: Seth Margolis, 20% effort.

2009-2011 The Edward R. and Anne G. Lefler Postdoctoral Fellowship

2006-2008 Ruth L. Kirschstein Postdoctoral NRSA

2003-2004 George H. Hitchings Fund Fellowship for Health Research and Science Education from the Triangle Community Foundation

1999-2001 NIH Training Fellowship

2000 William Randolph Hearst Educational Endowment

2000 Frank R. Lillie Fellowship and Scholarship Fund

1995 Summer Research Scholar, Phytera Inc.

EDUCATIONAL ACTIVITIES:

Teaching:

Topics in Biological Chemistry, lecture, JHUSOM, '12 - present

Neural development II, Synaptogenesis, '13 – present

Neural development II, Developmental Disease, Lecture, '13 – present

Cognitive Neuroscience II, Second Messengers and phosphorylation, Lecture, '13 – present

Mentoring Experience:

Graduate Student – Thomas Schaffer '11 – present

Graduate Student – Mark Zbinden '11 – present

Graduate Student – Gabrielle Sell '11 – present

Graduate Student – Kapil Ramachandran '11 – present – NSF GRFP

Undergraduate student – JHU - Ransom Chin '12

Undergraduate student – JHU - Mitchell Silver '13 - present

Undergraduate student – JHU - Michael Ayad '13 – present

Undergraduate student – JHU - Qingcong Zeng '13 - present

Thesis committee – Olaf Lagerlof

Thesis committee – Hana Goldschmidt

Thesis committee – Hari Prasad

Thesis committee – Jieun Lee

Thesis committee – Leonardo Hagmann

Training grant – 2012 – present, BCMB

Training grant – 2013 – present, Neuroscience

Educational Program Building/Leadership

Career Panel “Research Leadership” '12 and '13, panelist

Clinical Activities:

None

Organizational Activities

Editorial Activities:

Ad Hoc Peer review: Journal of Comparative Neurology, Current Biology

Consultantship:

2011 – 2012 Neurox Pharmaceuticals, Inc., Scientific Consultant

Recognition

Invited Talks:

2003 Pharmacology Departmental Symposium, Duke University, Invited Speaker.

2003 Graduate Student Symposium, Duke University, Invited Speaker.

2009 Department of Neurobiology, Harvard University Medical School, seminar, invited speaker.

2010 Cellular Neuroscience, Neurodegeneration and Repair, Yale School of Medicine, seminar, invited speaker.

2011 Department of Biochemistry, St. Jude Children's Research Hospital, Seminar, invited speaker.

2012 Department of Neurogenetics, Kennedy Krieger Institute, Seminar, invited speaker.
2012 ASF symposium, Angelman Syndrome Foundation, Invited speaker.
2013 Cold Spring Harbor Meeting, From Synapses to Molecules to Behavior, invited speaker.
2013 Genzyme, Rare Disease Division, invited speaker.
2013 ASF symposium, Angelman Syndrome Foundation, invited speaker.
2013 BrightFocus Public Education Event on AD, invited speaker.
2014 Psychiatry Research Conference, Johns Hopkins University School of Medicine, invited speaker.

Other profession accomplishments:

Search Committees and Recruiting

2012, 2013 Faculty Search Committee - Biological Chemistry
2013 Faculty Search Committee - Brain Science Institute
2013 Faculty Search Committee - HIT Center
2012 – present Graduate Student Recruiting - BCMB
2012 - present Graduate Student Recruiting – Biological Chemistry
2012 – present Graduate Student Recruiting - Neuroscience
2013 M. Daniel Lane Lectureship Selection Committee

Program planning

Co-organizer of annual BCMB retreat