

Paris A. Skourides, Ph.D.
Associate Professor
Head, Laboratory of Cell and Developmental Biology
University of Cyprus

Personal Details

Name: Paris A. Skourides
Date of Birth: 08/06/1974
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University of Cyprus
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Education

1998-2004 **PhD, The Rockefeller University.** Morphogenetic Movements during the Xenopus Gastrulation and Development of Biocompatible Quantum Dots. (advisor: Professor Ali Hemmati-Brivanlou)

1994-1997 **B.A. Biochemistry, Brandeis University.**
Summa Cum Laude and Highest Honors in Biochemistry

Professional Profile

2016-Now Associate Professor and Head of Laboratory, University of Cyprus
2010-2016 Assistant Professor and Head of Laboratory, University of Cyprus
2005-2010 Lecturer and Head of Laboratory, University of Cyprus
2002-2003 Consultant for Brinkman-Eppendorf
Consulted on new product development.
1996-1998 Research Associate at Brandeis University,

1996-1997 Worked on Chronic Myelogenous Leukemia in the lab of Dr. Ruibao Ren
Consultant for Pixera Corporation
Worked on Improving the Software and hardware of the Pixera Professional and 120es Imaging Systems.

Achievements/Awards

- 2016** My group was responsible for 1 out of a total of 1.84 fractional count points attributed to Cyprus in the Life Sciences in the latest Nature Index
- 2015** Article in the journal Cell Reports selected as F1000 prime recommended by experts in the field.
- 2015** My group was responsible for 2 out of a total of 3.14 fractional count points attributed to Cyprus in the Life Sciences in the latest Nature Index
- 2012-14** Article in the journal Developmental Cell selected as F1000 prime recommended by two international experts in the field.
- 2013** Top PhD student award in the Department given to a student from my group for the third year in a row, Top student selected based on impact factor of publications and grades, University of Cyprus 2013
- 2012** Top PhD student in the Department award given to a student from my group, Top student selected based on impact factor of publications and grades, University of Cyprus 2012
- 2012-14** Cover articles in the Journals Developmental Biology and Developmental Cell
- 2011-12** Awarded two Cyprus Research Promotion foundation Grants
- 2011** Top PhD student in the Department award given to a student from my group, Top student selected based on impact factor of publications and grades, University of Cyprus 2011
- 2011** Cover of Journal of Nanobiotechnology for article "Split-Inteins for Simultaneous, Site-Specific Conjugation of Quantum Dots to Multiple Protein Targets In vivo. J Nanobiotechnology Sep 15;9(1):37.
- 2009-10** Cyprus Research Promotion foundation Grants including an infrastructure grant for the first Multi Photon Laser Scanning Confocal Microscopy System in Cyprus
- 2008** 4 Research Promotion Foundation Grants (2: project coordinator for PENEK and DRASI, 2:Collaborator for PENEK and Strategic Infrastructure Project)

- 2006** European Commission, Marie Curie Grant "Novel Quantum Dot Imaging technologies for the study of morphogenesis and other biological processes"
- 2002** Featured on CAS Science Spotlight and QD work was selected as a "Most Intriguing" Document of the second quarter of 2002 out of 200,000 publications
- 1998** Nathan O. Kaplan Award for Excellence in Biochemistry
- 1997** Howard Hughes Undergraduate Research Fellow
- 1994** Fulbright Scholar

Scientific, Professional and Administrative Activities

- Member of the Editorial Board , Frontiers Cell And Developmental Biology, Switzerland, Frontiers
- Editor for Journal of Nanomedicine Research
- Ad-Hoc reviewer for the Journals Developmental Biology, Nature Protocols, Cell Reports, Cilia, Journal of Cell biology , ACS Chemical Biology, Plos One, Biotechnology Progress and Biotechniques
- 2013, Grant Reviewer for the Hadwen Trust for Humane Research, United Kingdom
- 2011- present, Member of the Research Promotion Foundation Advisory Committee on Nanosciences and Nanotechnology
- 2009-2012, Ethics Committee Member, Marie Curie Initial Training Network" MEDICAL IMAGING USING BIO-INSPIRED AND SOFT COMPUTING"
- Participant COST ACTION D43 " Colloid and Interface Chemistry for Nanotechnology"
- Invited Referee by the ERMIS Research & Incubator Center for the evaluation of Proposals in the Biological Sciences

Summary

<i>Total number of Citations</i>	3536
Total External Research Funds	1,537,000.00 euro
Total Internal Research Funds	256,000.00 euro
Total number of research grants	11

List of Publications

Peer Reviewed Original Articles

1. Antoniadou I, Stylianou P, Christodoulou N, **Skourides PA**. Addressing the functional determinants of FAK during ciliogenesis in multiciliated cells. **J Biol Chem**. 2016 Nov 28. pii: jbc.M116.767111.
2. Petridou NI, **Skourides PA**. A ligand-independent integrin β 1 mechanosensory complex guides spindle orientation. , **Nature Communications** 2016 Mar 8;7:10899. doi: 10.1038/ncomms10899. PMID: 26952307 22
3. Christodoulou N, **Skourides PA**. Cell-Autonomous Ca(2+) Flashes Elicit Pulsed Contractions of an Apical Actin Network to Drive Apical Constriction during Neural Tube Closure. **Cell Reports**, 2015 Dec 15;13(10):2189-202. doi: 10.1016/j.celrep.2015.11.017. **F1000Prime recommended**
4. Petridou NI and **Skourides PA**. FAK is required for the transduction of extracellular forces that orient the mitotic spindle and control tissue morphogenesis, **Nature Communications**, 2014 Oct 24;5:5240. doi: 10.1038/ncomms6240.
5. M. Andreou, CYI Yan, **PA Skourides**. 40LoVe and Samba Are Involved in Xenopus Neural Development and Functionally Distinct from hnRNP AB, **PloS one** 9 (1), e85026
6. Antoniadou I, Stylianou P, **Skourides PA**. Making the connection: ciliary adhesion complexes anchor Basal bodies to the actin cytoskeleton. **Dev Cell**. 2014 Jan 13;28(1):70-80. doi: 10.1016/j.devcel.2013.12.003. **Cover article and F1000Prime recommended**
7. Zanardelli S, Christodoulou N, **Skourides PA**. Calpain2 protease: A new member of the Wnt/Ca2+ pathway modulating convergent extension movements in Xenopus. **Dev Biol**. 2013 Sep 26.
8. Petridou NI, Stylianou P, **Skourides PA**. A dominant-negative provides new insights into FAK regulation and function in early embryonic morphogenesis. **Development**. 2013 Sep 18
9. Ioannou A, Santama N, **Skourides PA**. Xenopus laevis nucleotide binding protein 1 (xNubp1) is important for convergent extension movements and controls ciliogenesis via regulation of the actin cytoskeleton. **Dev Biol**. 2013 Aug 15;380(2):243-58. **Cover article**

10. Petridou NI, Stylianou P, Christodoulou N, Rhoads D, Guan JL, **Skourides PA**. Activation of endogenous FAK via expression of its amino terminal domain in *Xenopus* embryos. **PLoS One**. 2012;7(8):e42577.
11. Ioannou, A., Eleftheriou, I., Lubatti, A., Charalambous, A. & **Skourides, PA**. High-resolution whole-mount in situ hybridization using Quantum Dot nanocrystals. **J Biomed Biotechnol** 2012, 627602 (2012).
12. Muro, E., Fragola, A., Pons, T., Lequeux, N., Ioannou, A., **Skourides, P.** & Dubertret, B. Comparing intracellular stability and targeting of sulfobetaine quantum dots with other surface chemistries in live cells. **Small** **8**, 1029-37 (2012).
13. Andreou, M., Eleftheriou, I., eleftheriou, A., Christodoulou, N., Antoniadis, I., Ioannou, A., Petridou, N., Stylianou, P. & **Skourides, P.** Evaluation of total toxicity of effluents from several waste water treatment stations and major water sources of Cyprus using *Xenopus laevis* as a model organism. **Journal of Environmental Research and Development** **6**(2011).
14. Charalambous, A., Antoniadis, I., Christodoulou, N. & **Skourides, PA**. Split-inteins for simultaneous, site-specific conjugation of quantum dots to multiple protein targets in vivo. **J Nanobiotechnology** **9**, 37 (2011).
15. Muro, E., Vermeulen, P., Ioannou, A., **Skourides, P.**, Dubertret, B., Fragola, A. & Lorient, V. Single-shot optical sectioning using two-color probes in HiLo fluorescence microscopy. **Biophys J** **100**, 2810-9 (2011).
16. Charalambous, A., Andreou, M. & **Skourides, PA**. Intein-mediated site-specific conjugation of Quantum Dots to proteins in vivo. **J Nanobiotechnology** **7**, 9 (2009).
17. Stylianou, P. & **Skourides, PA**. Imaging morphogenesis, in *Xenopus* with Quantum Dot nanocrystals. **Mech Dev** **126**, 828-41 (2009).
18. Yan, C. Y. I., **Skourides, P.**, Chang, C. & Brivanlou, A. Samba, a *Xenopus* hnRNP expressed in neural and neural crest tissues. **Developmental Dynamics** **238**, 204-209 (2009).
19. Demetriou, M. C., Stylianou, P., Andreou, M., Yiannikouri, O., Tsaprailis, G., Cress, A. E. & **Skourides, P.** Spatially and temporally regulated alpha6 integrin cleavage during *Xenopus laevis* development. **Biochem Biophys Res Commun** **366**, 779-85 (2008).
20. Dubertret B, **Skourides P**, Norris DJ, Noireaux V, Brivanlou AH, Libchaber A. In vivo imaging of quantum dots encapsulated in phospholipid micelles. **Science**. 2002 Nov 29;298(5599):1759-62.

21. **Skourides P**, Perera SA, Ren R. Polarized distribution of Bcr-Abl in migrating myeloid cells and co-localization of Bcr-Abl and its target proteins.
Oncogene. 1999 Feb 4;18(5):1165-76.

Invited Reviews

1. Antoniadou I, Stylianou , Skourides PA. The role of the actin Cytoskeleton in Motile Ciliogenesis. Communicative & Integrative Biology, In preparation
2. Petridou NI and Skourides PA. Calcium signaling in response to mechanotransduction in Development. International Journal of Developmental Biology, In preparation

Book Chapters

1. Anna Charalambous, Maria Andreou, Ioanna Antoniadou, Neophytos Christodoulou and **Paris A Skourides** (2012), "In vivo, site-specific, covalent conjugation of Quantum Dots to proteins via split-intein splicing", Dr. M. Soloviev, Methods in Molecular Biology : Nanoparticles in Biology and Medicine, Methods in Molecular Biology™, 2012, Volume 906, Part 2, 157-169, DOI: 10.1007/978-1-61779-953-2_11
2. Andriani Ioannou, Iro Eleftheriou, Anna Charalambous, and **Paris A Skourides** "Single and Multiplexed Fluorescent In Situ Hybridization using Quantum Dots Nanocrystals in Xenopus" In Situ Hybridization Methods, edited by Giselbert Hauptmann, PhD, **Humana Press, USA (in press)**