

CURRICULUM VITAE

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Education

1989-1993	Ocean University of China, Qingdao, China	B.S. in Biology
1993-1996	Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China	M.S. in Molecular Biology
1996-2001	University of North Carolina at Chapel Hill	Ph.D. in Biology

Research Experience

1993-1996 Advisors: Dr. C.K. Tseng and Dr. Song Qin
Master's thesis research on selectable markers for genetic transformation of kelp and regeneration of transgenic kelp.

1996-1997 Rotation in Dr. Ralph S. Quatrano's laboratory at UNC-CH
Screening of *Arabidopsis* and maize DNA libraries for septins and integrins, and in situ hybridization of actin and myosin mRNAs in *Fucus*.

1997-2001 Advisor: Dr. John R. Pringle at University of North Carolina at Chapel Hill
Ph.D. dissertation research on roles of alpha-actinin, fimbrin, and septins in cell polarization and cytokinesis in the fission yeast *S. pombe*.

Nov. 2001- Advisor: Dr. Thomas D. Pollard at Yale University, New Haven, CT
Postdoctoral research on the mechanisms of cytokinesis in fission yeast.

Teaching Experience

Fall, 1996 Teaching assistant in "Plant Biology" (Department of Biology, UNC)

Spring, 1997 Teaching assistant in "Laboratory Experiments in Genetics" (Dept. of Biology, UNC)

2001-present Trained/Training two technicians, one rotation graduate student, three Yale senior students on various projects

Members and Honors

1989-1993 Highest University Scholarships

2001-present Member of the American Society for Cell Biology

2004- The Anna Fuller Fund Molecular Oncology Postdoctoral Fellowship

Publications – Peer Reviewed Original Research

Wu, J.-Q. and T.D. Pollard. 2005. Counting cytokinesis proteins globally and locally in fission yeast. *Science* **310**: 310-314.

Kovar, D.R., J.-Q. Wu, and T.D. Pollard. 2005. Profilin-mediated competition between capping protein and formin Cdc12p during cytokinesis in fission yeast. *Mol. Biol. Cell* **16**: 2313-2324.

Wu, J.-Q., J.R. Kuhn, D.R. Kovar, and T.D. Pollard. 2003. Spatial and temporal pathway for assembly and constriction of the contractile ring in fission yeast cytokinesis. *Dev. Cell* **5**: 723-734. [Times cited: 26]

Wu, J.-Q., J. Bähler, and J.R. Pringle. 2001. Roles of a fimbrin and an α -actinin-like protein in fission yeast cell polarization and cytokinesis. *Mol. Biol. Cell* **12**: 1061-1077. [Times cited: 21]

Bähler, J. *, J.-Q. Wu *, M.S. Longtine, N.G. Shah, A. McKenzie III, A.B. Steever, A. Wach, P. Philippsen, and J.R. Pringle. 1998. Heterologous modules for efficient and versatile gene targeting in *Schizosaccharomyces pombe*. *Yeast* **14**: 943-951. [Times cited: 386]

* Co-first authors

- Wu, J.-Q., S. Qin, T. Deng, X.-L. Guo, and C.K. Tseng. 1999. Expression of chloramphenicol acetyltransferase (CAT) gene transferred into *Laminaria japonica*. *Oceanologia et Limnologia Sinica* **30**: 28-33. [In Chinese]
- Wu, J.-Q., X.-H. Wang, S. Qin, and C.K. Tseng. 1995. Studies of selectable marker for kelp transformation. *Marine Sciences* **5**: 42-45. [In Chinese]
- Qin, S., S. Tong, W. Cui, Y.-F. Li, X.-H. Wang, J.-Q. Wu, G.-Y. Wu, P.-J. Zhang, and C.K. Tseng. 1994. TEM observation and hybridization study of plasmid from *Spirulina platensis*. *Oceanologia et Limnologia Sinica* **25**: 560-563. [In Chinese]

Manuscripts on Original Research in Preparation

- Wu, J.-Q., T. D. Pollard, and J.R. Pringle. 2005. Cooperation between the septins and the actomyosin ring and role of a putative cell-integrity pathway during cell division in fission yeast. *Submitted to Molecular Biology of the Cell*.
- Wu, J.-Q., V. Sirotkin, D.K. Kovar, M. Lord, C.C. Beltzner, L.-L. Zhao, M. Manix, and T.D. Pollard. 2005. Lateral assembly of contractile ring and roles of Arp2/3 complex in fission yeast cytokinesis. *Will submit to Journal of Cell Biology in October*.
- Al-Awar, O.*, J.-Q. Wu*, H.B. Kim*, T.A. Pugh*, M. Valencik*, J. Bähler, C. Caruso, A.M. Healy, P.A. Fantes, and J.R. Pringle. 2005. Analysis of septin function in the fission yeast *Schizosaccharomyces pombe*. *In preparation*.

*Co-first authors

Publications – Reviews

- Hales, K.G., E. Bi, J.-Q. Wu, J.C. Adam, I.-C. Yu, and J.R. Pringle. 1999. Cytokinesis: an emerging unified theory for eukaryotes? *Curr. Opin. Cell Biol.* **11**: 717-725. [Times cited: 68]
- Wang, X.-H., X.-J. Yan, S. Tong, J.-Q. Wu, S. Qin, and C.K. Tseng. 1995. Marine algal molecular biology and genetic engineering researches in Institute of Oceanology, The Chinese Academy of Sciences. *Marine Sciences* **1**: 18-19. [In Chinese]

Presentations at Meetings

Talks:

- Sep., 1999 The First International Fission Yeast Meeting (Edinburgh, UK)
Heterologous modules for efficient and versatile PCR-based gene targeting in *Schizosaccharomyces pombe*.
- Dec., 2001 The American Society for Cell Biology 41st Annual Meeting (Washington, DC)
The role of septins in fission yeast cytokinesis.
- Jul., 2003 The First East Coast Regional Fission Yeast Meeting (Worcester, MA)
Spatial and temporal pathway for the assembly of the cytokinetic contractile ring in the fission yeast *Schizosaccharomyces pombe*.
- Dec., 2003 The American Society for Cell Biology 43rd Annual Meeting (San Francisco, CA)
Spatial and temporal pathway for the assembly and constriction of contractile ring in fission yeast cytokinesis.

Posters:

- Aug., 1999 Yeast Cell Biology Meeting (Cold Spring Harbor Laboratory, New York)
Roles of a fimbrin and an α -actinin-like protein in fission yeast cell polarization and cytokinesis.
- Sep., 1999 The First International Fission Yeast Meeting (Edinburgh, UK)
Roles of an α -actinin, a fimbrin, and septins in fission yeast cell polarization and cytokinesis.
- Aug., 2002 Plant and Fungal Cytoskeleton Gordon Research Conference
(Proctor Academy, Andover, New Hampshire)
Timing of the contractile-ring assembly in fission yeast.

- Jul., 2004 ASCB 2004 Summer Meeting On Cytokinesis (Burlington, Vermont)
Quantitative analysis of contractile ring assembly in fission yeast.
- Aug., 2004 The Third International Fission Yeast Meeting (San Diego, CA)
Quantitative analysis of contractile ring assembly and constriction in fission yeast cytokinesis.
- Dec., 2004 The American Society for Cell Biology 44th Annual Meeting (Washington, DC)
Quantitative analysis of contractile ring assembly in fission yeast cytokinesis.

References:

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