

NICHOLAS JAMES QUINTYNE

EDUCATION:

Ph.D., Biology, 2001. The Johns Hopkins University, Baltimore, Maryland

B.S., Biology, 1995. Dickinson College, Carlisle, Pennsylvania

TEACHING EXPERIENCE:

2003

Howard Hughes Cell Biology Outreach Workshop For High School Teachers,
University of Pittsburgh

1996- 1997

Teaching Assistant, The Johns Hopkins University

1993 - 1994

Teaching Assistant, Dickinson College

RESEARCH EXPERIENCE:

2003 – 2005

Research Associate, University of Pittsburgh
Two-step mechanism of multipolar spindle formation in cancer cells
Advisor: William S. Saunders, Ph.D.

2002 - 2003

Postdoctoral Fellow, University of Pittsburgh
Multipolar spindle formation in oral cancer cells.
Advisor: William S. Saunders, Ph.D.

2001 - 2002

Postdoctoral Fellow, The Johns Hopkins University
Roles of dynein and dynactin in cell cycle progression and nuclear envelope
breakdown.
Advisor: Trina A. Schroer, Ph.D.

1995 - 2001

Doctoral Candidate, The Johns Hopkins University
Thesis: Dynactin is required for multiple aspects of microtubule organization
Advisor: Trina A. Schroer, Ph.D.

Fall 1994

Independent Project, Dickinson College

Cloning of *jun-b* promoter
Advisor: Michael P. Roberts, Ph.D.

Summer 1994

Internship, University of Georgia
Cloning of Mannosidase-IIA and Lysosomal Mannosidase
Advisor: Kelley W. Moremen, Ph.D.

PROFESSIONAL ASSOCIATIONS:

1997 - present American Society for Cell Biology (ASCB) - Member

PUBLICATIONS:

Quintyne, N. J., J. E. Reing, D. R. Hoffelder, S. M. Gollin and W. S. Saunders. 2005. Spindle Multipolarity is prevented by centrosomal clustering. *Science*. 307: 127-129.

King, S. J., C. L. Brown, K. C. Maier, N. J. Quintyne and T. A. Schroer. 2003. Analysis of the dynein–dynactin interaction *in vitro* and *in vivo*. *Mol. Biol. Cell*. 14: 5089-97.

Quintyne N. J. and T. A. Schroer. 2002. Distinct cell cycle-dependent roles for dynactin and dynein at centrosomes. *J. Cell Biol.* 159: 245-254.

Quintyne, N. J., S. R. Gill, D. M. Eckley, C. L. Crego, D. A. Compton and T. A. Schroer. 1999. Dynactin is required for microtubule anchoring at centrosomes. *J. Cell Biol.* 147: 321-334.

INVITED TALKS AT NATIONAL MEETINGS:

43rd Annual Meeting of The American Society for Cell Biology, 2003. Centrosomes and Disease subgroup: “Centrosome over-replication and perturbation of dynein induces multipolar spindle formation.”

PRESENTATIONS AT NATIONAL MEETINGS:

Nicholas J. Quintyne, Susanne M. Gollin and William S. Saunders. *Spindle Multipolarity in Cancer Cells Involves Loss of Centrosome Coalescence*. American Society for Cell Biology, 2004.

Nicholas J. Quintyne, Susanne M. Gollin and William S. Saunders. *NuMA and Dynein Play Critical Roles in Multipolar Spindle Formation*. American Society for Cell Biology, 2003.

E. William Schmitt, Stephanie A. Lex, Tara L. Culver, Nicholas J. Quintyne and Stephen J. King. *Dynactin has two distinct microtubule binding domains*. American Society for Cell Biology, 2003.

Nicholas J. Quintyne and Trina A. Schroer. *Cell-Cycle Localization of Dynein and Dynactin to the Centrosome*. American Society for Cell Biology, 2000.

Nicholas J. Quintyne and Trina A. Schroer. *Dynactin Function at the Centrosome*. American Society for Cell Biology, 1999.

Nicholas J. Quintyne, Steven R. Gill, D. Mark Eckley and Trina A. Schroer. *A Role for Dynactin at the Centrosome*. American Society for Cell Biology, 1998.