Dr. Weidong Yang

**Ph. D., Fudan University, Shanghai, China**

Bowling Green State University

College of Science & Technology , Temple University

Publications

Ma J. and Yang W. (2010) Three-Dimensional Distribution of Transient Interactions in the Nuclear Pore Obtained by Single-Molecule Snapshots, **Proc. Natl. Acad. Sci. USA** (in press).

Goryaynov A., Sarma A, Ma J. and Yang W. (2010) Single-Molecule Imaging of Nuclear Transport, **J. Vis. Exp.** (in press).

Sun, C., Yang, W., Tu, L.-C. and Musser, S. M. (2008) "Single Molecule Measurements of Importin Alpha/Cargo Complex Dissociation at the Nuclear Pore," **Proc. Natl. Acad. Sci. USA**, 105, 8613-8618.

Yang W. and Musser M. S. (2006) “Nuclear transport time and efficiency are dependent on importin ß concentrations” **Journal of Cell Biology**, 174, 951-961.

Yang W. and Musser M. S. (2006) “Visualizing single molecules transiting through nuclear pore complexes using narrow-field epifluorescence microscopy” **Methods**, 39, 316-328.

Yang W., Gelles J. and Musser M. S. (2004) “Imaging of single-molecule translocation through nuclear pore complexes” **Proc. Natl. Acad. Sci. USA**, 101, 12887-12892.

Wang P. N., Yang W., et al. (2004) “Photoluminescence from High Purity InN and InGaN Nanoparticles Synthesized by Pulsed Discharge” in **Focus on Nanotechnology Research**, Eugene V. Dirote (Editor), Nova Science Publisher. Chapter 8, 155-172.

Yang W., Wang P.N., Li F.M. and Cheah K.W. (2002) "Synthesis of oxygen-free InN nanoparticles by pulse discharge". **Nanotechnology**, 13, 65-68.

13.Ma J., Goryaynov A., Sarma A. and Yang W. (2012) Self-Regulated Viscous Channel in the Nuclear Pore Complex, Proc. Natl. Acad Sci. USA, 109 , 7326-7331.

12. Goryaynov A., Ma J. and Yang W. (2012) Single-Molecule Studies of Nuclear Transport: from One Dimension to Three Dimensions, Integrative Biology (Cover), 4, 10-21.

11. Sarma A. and Yang W. (2011) Calcium-Regulation of Nucleocytoplasmic Transport, Protein & Cell, 2:291-302.

10. Mi L., Xiong R., Zhang Y., Li Z., Yang W., Chen J., Wang P. (2011) Microscopic Observation of the Intercellular Transport of CdTe Quantum Dot Aggregates Through Tunneling-Nanotubes. JBNB, 2, 172-179.

9. Yang W. (2011) ‘'Natively Unfolded’' Nucleoporins in Nucleocytoplasmic Transport: Clustered or Evenly Distributed? Nucleus, 2, 10-16.

8. Goryaynov A., Sarma A, Ma J. and Yang W. (2010) Single-Molecule Imaging of Nuclear Transport, J. Vis. Exp. (http://www.jove.com/index/Details.stp?ID=2040).

7. Ma J. and Yang W. (2010) Three-Dimensional Distribution of Transient Interactions in the Nuclear Pore Obtained by Single-Molecule Snapshots, Proc. Natl. Acad. Sci. USA, 107, 7305-7310.

6. Sun, C., Yang, W., Tu, L.-C. and Musser, S. M. (2008) "Single Molecule Measurements of Importin Alpha/Cargo Complex Dissociation at the Nuclear Pore," Proc. Natl. Acad. Sci. USA, 105, 8613-8618.

Before 2007

5. Yang W. and Musser M. S. (2006) "Nuclear transport time and efficiency are dependent on importin concentrations" Journal of Cell Biology, 174, 951-961.

4. Yang W. and Musser M. S. (2006) "Visualizing single molecules transiting through nuclear pore complexes using narrow-field epifluorescence microscopy" Methods, 39, 316-328.

3. Yang W., Gelles J. and Musser M. S. (2004) "Imaging of single-molecule translocation through nuclear pore complexes" Proc. Natl. Acad. Sci. USA, 101, 12887-12892.

2. Wang P. N., Yang W., et al. (2004) "Photoluminescence from High Purity InN and InGaN Nanoparticles Synthesized by Pulsed Discharge" in Focus on Nanotechnology Research, Eugene V. Dirote (Editor), Nova Science Publisher. Chapter 8, 155-172.

1. Yang W., Wang P.N., Li F.M. and Cheah K.W. (2002) "Synthesis of oxygen-free InN nanoparticles by pulse discharge". Nanotechnology, 13, 65-68.