

## CURRICULUM VITAE

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**Date of Birth:** April, 1965

**Nationality:** USA

### Contact Information

School of Life Sciences

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### I. EDUCATION

**Ph.D.** Albert-Ludwigs-Universitaet Freiburg, Germany, Molecular Genetics

**M.S.** Institute of Hydrobiology, CAS, Wuhan, Hydrobiology

**B.S.** Hebei Normal University, Shijiazhuang, Biology

### II. PROFESSIONAL EXPERIENCE

- 2006 – Professor, School of Life Sciences, Tsinghua University, Beijing, China
- 2001 – 2006 Research Assistant Professor, Department of Cell Biology, UT Southwestern Medical Center at Dallas, Texas
- 1997 – 2001 Postdoctoral research fellow, UT Southwestern Medical Center at Dallas, Texas
- 1989 -1992 Research scientist, Institute of Salt Research, P.R. China
- 1991 Visiting fellow, Department of Botany, University of Texas at Austin (Host laboratory: Dr. Richard Starr)

### III. Awards and Honors

Germany DAAD Fellowship, 2009

Chinese National Youth Talent Awards, 2009

Changjiang Scholarship Professor, 2009

## VI. Research Interest

Molecular and cellular biology of cilia and eukaryotic flagella with an aim to understand regulation of flagellar assembly, disassembly and length control. Of particular, regulation by protein phosphorylation, microtubule dynamics and intraflagellar transport.

## IV. Presentations in Meetings or Seminars

- 11/2010 Invited speaker, Handan College, Handan, China
- 07/2010 Invited speaker, FASEB meeting on “Biology of Cilia and Flagella”, Saxons River, USA
- 06/2010 Selected presentation, 14th Chlamydomonas conference Cell and Molecular Biology of Chlamydomonas. Wheaton College, USA
- 12/2009 Invited speaker, 10<sup>th</sup> Sino-Singapore Symposium in Biology, Xiamen, China
- 12/2009 Invited talk, Jiansu University, Zhenjiang, China
- 08/2009 Invited talk, Max Planck Institute for Molecular Plant Physiology, Potsdam-Golm, Germany
- 05/2008 Selected presentation, 13th Chlamydomonas conference Cell and Molecular Biology of Chlamydomonas. Hyeres, France
- 11/2008 Invited talk, Beijing Normal University, Beijing, China
- 06/2008 Invited talk, Institute of Hydrobiology, Wuhan, China

## V. Publications

1. Luo M, M Cao, Y Kan, G Li, W Snell and **Junmin Pan\***. 2011. Protein phosphorylation states of an auroa-like kinase marks the length of growing flagella. **Current Biology**. (accepted).
2. Yinan Kan, **Junmin Pan\***. 2010. a one-shot solution to bacterial and fungal contamination in the green alga *Chlamydomonas reinhardtii* culture by using an antibiotic cocktail. **Journal of Phycology**, 46, 1356-1358.
3. Piao tian, , Minna Luo, Liang Wang, Yan Guo, De Li, Peng Li, William J. Snell, **Junmin Pan\***. 2009. A microtubule depolymerizing kinesin functions during both flagellar disassembly and flagellar assembly in *Chlamydomonas*. **PNAS** **PNAS**, 106, 4713-4718 (direct submission).
4. Cao Muqing, Yu Fu, Yan Guo and **Junmin Pan\***. 2009. *Chlamydomonas* (Chlorophyceae) colony PCR. **Protoplasma**, 235, 107.
5. Cao Muqing, Guihua, Li, and **Junmin Pan\***. 2009. Regulation of cilia assembly, disassembly, and length by protein phosphorylation. **Methods in Cell Biology**, 94, 333-346.

6. **Junmin Pan\***. 2008. Cilia and ciliopathies: From *Chlamydomonas* and beyond. **Sci China Ser C-Life Sci**, 51, 479-486.
7. **Junmin Pan** and William Snell. 2007. The primary cilium: Keeper of the key to cell division. **Cell**, 129, 1255-1257.
8. Merchant S., ..., **Junmin Pan**, et al., 2007. The *Chlamydomonas* Genome Reveals the Evolution of Key Animal and Plant Functions. **Science**, 318, 245-250.
9. Wang Q. **Junmin Pan**, and William Snell. 2006. A new role for intraflagellar transport: Intraflagellar transport particles participate directly in signal transduction during cilium-generated signaling in *Chlamydomonas*. **Cell**, 125, 549-562
10. **Junmin Pan** and William Snell. 2005. *Chlamydomonas* shortens its flagella by activating disassembly, stimulating IFT particles and blocking anterograde cargo loading. **Developmental Cell**, 9, 431-438.
11. **Junmin Pan**, Q. Wang, and William Snell. 2005. Cilium-generated signaling and cilia-related disorders. **Laboratory Investigation**, 85, 452-463.
12. **Junmin Pan**, Qian Wang and William J. Snell. 2004. An Aurora Kinase Is Essential for Flagellar Disassembly in *Chlamydomonas*. **Developmental Cell**, 6: 445-451.
13. William J. Snell, **Junmin Pan** and Qian Wang. 2004. Cilia and flagella revealed: from flagellar assembly in *Chlamydomonas* to Human obesity disorders. **Cell**, 117, 693-697.
14. Wang Q. **Junmin Pan**, and William Snell. A new role for intraflagellar transport: Intraflagellar transport particles participate directly in signal transduction during cilium-generated signaling in *Chlamydomonas*. **Cell**, 125, 549-562
15. **Junmin Pan** and William Snell. 2005. *Chlamydomonas* shortens its flagella by activating disassembly, stimulating IFT particles and blocking anterograde cargo loading. **Developmental Cell**, 9, 431-438.
16. **Junmin Pan**, Q. Wang, and William Snell. 2005. Cilium-generated signaling and cilia-related disorders. **Laboratory Investigation**, 85, 452-463.
17. William J. Snell, **Junmin Pan** and Qian Wang. 2004. Cilia and flagella revealed: from flagellar assembly in *Chlamydomonas* to Human obesity disorders. **Cell**, 117, 693-697.
18. **Junmin Pan**, Qian Wang and William J. Snell. 2004. An Aurora Kinase Is Essential for Flagellar Disassembly in *Chlamydomonas*. **Developmental Cell**, 6: 445-451.
19. **Junmin Pan**, Michael J. Misamore, Qian Wang, and William J. Snell, 2003. Protein transport and signal transduction during fertilization in *Chlamydomonas*. **Traffic**. 4:452-459.
20. **Junmin Pan** and William J. Snell, 2003. Kinesin-II and regulated intraflagellar transport of *Chlamydomonas* aurora protein kinase. **J. Cell Sci.** 116:2179-2186.
21. Joseline Ojaimi, **Junmin Pan**, Sumana Santra, William J. Snell, and Eric A. Schon, 2002. An Algal Nucleus-encoded Subunit of Mitochondrial ATP Synthase Rescues a Defect in the Analogous Human Mitochondrial-encoded Subunit. **Mol. Biol. Cell.** 13(11):3836-44.
22. **Junmin Pan** and William J. Snell, 2002. Kinesin-II is required for flagellar sensory transduction during fertilization in *Chlamydomonas*. **Mol. Biol. Cell.** 13(4):1417-26.
23. **Junmin Pan** and William J. Snell, 2000. Signal transduction during fertilization in the unicellular green algae, *Chlamydomonas*. **Curr. Opin. Microbiol.** 3:596-602.
24. **Junmin Pan** and William J. Snell, 2000. Regulated Targeting of a Protein Kinase into an Intact Flagellum: An aurora/Ipl1p-like protein kinase translocates from the cell body

- into the flagella during gamete activation in *Chlamydomonas*. **J. Biol. Chem.** 275: 24106-24114.
25. **Junmin Pan**, Haring, MA, Beck, CF, 1997. Characterization of blue light signal transduction chains that control development and maintenance of sexual competence in *Chlamydomonas reinhardtii*. **Plant Physiol.** 115:1241-1249.
  26. **Junmin Pan**, Haring, MA, Beck, CF, 1996. Dissection of the blue light dependent signal transduction pathway involved in gametic differentiation of *Chlamydomonas reinhardtii*. **Plant Physiol.** 112:303-309.
  27. **Junmin Pan** and Zhang, XK, 1991. Adaptation of *Cyclotella* HP3 to light intensity. In Studies on exploitation of biological resources in Honghu lake and improvement of the ecological system of the lakes. **Sea and Ocean Press**, Beijing, pp81-84.
  28. **Junmin Pan** and Zhang, XK, 1990. A rapid thin layer chromatography of chlorophylls and carotenoid from algae. **Plant Physiol. Commun.** No. 3, pp51-53.