



# Song KE



**Finishing year:** 2015

**Supervisor:** Anna  
Weinzinger, Faculty of Life  
Sciences, University of  
Vienna

**Thesis title:** Selectivity and  
conduction studies in  
bacterial voltage-gated  
sodium channels by  
molecular dynamics  
simulations.

**Current Employer:** Medical  
Advisor at Beigene,  
Shanghai, China

**MolTag alumni page:**

[Song Ke \(univie.ac.at\)](#)

**Social network:**

[Song Ke | LinkedIn](#)

**How would you summarize your thesis results in 3 sentences?**

We performed the MD analysis of the sodium ion conduction in sodium channels; analyzed the kinetics and thermodynamics of the sodium ions inside channel's selectivity filter at atomic level.

**What was the impact of the MolTag program on your further career?**

It provides sufficient basic training, freedom and funding resources to conduct research. Through these trainings, I developed rigorous and strategic scientific thinking and acumens which ensures a fine career as medical science liaison and medical advisor in pharma-industry.

**Did you keep connections with some former colleagues?**

Not too much, but look forward to reconnecting with Moltag Alumni.

**What did you particularly like about the MolTag program?**

- Sufficient funding sources** to support us to participate into the exchange program and international conferences
- Enough freedom and good interdisciplinary platform to expand our vision** of various cross-functional and cutting-edge knowledge and techniques

**What is your recommendation for current MolTag PhD students?**

**Don't forget to carry out aerobic sports & extensive reading in philosophy** during busy studies, which makes you even more energetic and creative.

