

BIOLS SEMINAR SERIES

北京生命科学研究院精品讲座

报告时间：2012年10月16日（星期二）上午 9:00

报告地点：中国科学院动物所B105会议室

报告题目：Regulatory Pathways Controlling Mosquito Reproduction.

报告人：Dr. Alexander S. Raikhel. Member of National Academy of Sciences (USA)
Professor, Department of Entomology, University of California, Riverside.

欢迎广大科研人员和研究生光临！



Dr. Alexander S. Raikhel is the University Distinguished Professor in the Department of Entomology, University of California Riverside. He obtained his M.S. in zoology from Leningrad University and his Ph.D. in biological sciences from the Zoological Institute of Russian Academy of Sciences. Prof. Raikhel is recognized internationally for his significant contributions to insect science and vector biology, a leader in insect and mosquito reproduction and immunity. He is the author or coauthor of more than 150 research papers in international peer-reviewed scientific journals and books. Prof. Raikhel's research mainly focused on the process of mosquito egg production at the physiological, biochemical, and molecular biological levels. Another important contribution of his research is elucidation of important aspects

of mosquito immunity. His studies have opened the way for novel insect control strategies designed to block reproduction. Prof. Raikhel has served as co-editor of *Insect Biochemistry and Molecular Biology*. Now, he is Editor of *Proceedings of the National Academy of Sciences USA*.

Prof. Raikhel also established the Center for Disease Vector Research at the University of California Riverside, and successfully recruited new faculty members for the Center. In 2001, Prof. Raikhel received Entomological Society of America Recognition Award in Insect Physiology, Biochemistry & Toxicology and in 2009 was elected as a Fellow of this society in recognition of his fundamental contributions in insect science. He is a Fellow of the American Association for Advancement of Sciences (AAAS). In 2009, Prof. Raikhel was elected to the U.S. National Academy of Sciences in recognition of his pioneering research in mosquito physiology and molecular biology. For his scientific achievements, Prof. Raikhel was named the University of California Presidential Chair.

Key Publications:

- 2012. bHLH-PAS heterodimer of methoprene-tolerant and Cycle mediates circadian expression of juvenile hormone-induced mosquito genes.
Proc. Natl. Acad. Sci. USA e-publication September 24.
- 2010. *miR-275* is indispensable for blood digestion and egg development in the mosquito *Aedes aegypti*.
Proc. Natl. Acad. Sci. USA (inaugural article) 107: 22391-22398.
- 2010. Pathogenomics of *Culex quinquefasciatus* and Meta-Analysis of Infection Responses to Diverse Pathogens.
Science 330: 88 – 90.
- 2010. Distinct melanization mechanisms in the mosquito *Aedes aegypti*. *Immunity* 32:41-53.

联系电话：64887916 联系人：程 浩