

アメリカ化学会(ACS)2010 年春の大会

日時：2010 年 3 月 21 日～25 日

場所：サンフランシスコ

この大会期間中に、Agrochemical 部会で、日本農薬学会にとっても非常に関連のある 2 件のシンポジウムが企画されています。

- 1 . ACS アグロ部会の International Award ( 2010 年度の受賞者：利部伸三岐阜大学教授 ) を顕彰するシンポジウム

シンポジウム ( タイトル : **Discovery of Neonicotinoids** ) のプログラム

**Part I: Organizers** *John. Casida and Motohiro Tomizawa*

Keynote Lecture: Discovery of imidacloprid and afterward development: View from strategic molecular design.

*Prof. Shinzo Kagabu (Gifu University, Japan)*

Overview on the status and global strategy for neonicotinoids.

*Dr. Peter Jeschke (Bayer CropScience, Germany)*

**Part II: Physicochemistry, Metabolism, and Resistance**

Introductory remarks. *Chair Dr. Keiji Tanaka (Mitsui Chemicals Agro, Japan)*

Importance of physicochemical properties for design of new pesticides.

*Prof. Miki Akamatsu (Kyoto University, Japan)*

Distribution and development of neonicotinoid resistance.

*Dr. Ian Denholm (Rothamstead Research, UK)*

Neonicotinoid metabolism in insects relative to mechanism-based resistance.

*Dr. Ralf Nauen (Bayer CropScience, Germany)*

Neonicotinoid metabolism: Compounds, substituents, enzymes, and relevance.

*Prof. John E. Casida (University of California, Berkeley, USA)*

**Part III: Neonicotinoid Chemistry**

Introductory remarks. *Chair Dr. Takahiro Haga (ISK, Japan)*

Chemistry of clothianidin and related compounds.

*Dr. Hideki Uneme (Sumitomo Chemical, Japan)*

Molecular design and chemical properties of dinotefuran.

*Dr. Takeo Wakita (Mitsui Chemicals Agro, Japan)*

Cis-configuration: A new tactic/rationale for neonicotinoids molecular design.

*Prof. Zhong Li (East China University of Science and Technology, PR China)*

Discovery, biology, and biochemistry of sulfoxaflor - A new sap-feeding insecticide.

*Dr. Michael R. Loso (Dow AgroSciences, USA)*

#### **Part IV: Nicotinic Receptor and Ligand Design**

**Introductory remarks. *Chair Prof. David B. Sattelle (University of Oxford, UK)***

**Chemical neurobiology of the nicotinic receptor.**

*Prof. Dennis A. Dougherty (California Institute of Technology, USA)*

**Analysis of Structure and Species Selectivity of Neonicotinoid Insecticides using the Acetylcholine Binding Protein as a Structural Template.**

*Prof. Palmer Taylor (University of California, San Diego, USA)*

**Pharmacological characterization of insect nicotinic acetylcholine receptors.**

*Prof. Neil S. Millar (University College London, UK)*

**Receptor structure-guided neonicotinoid design.**

*Prof. Motohiro Tomizawa (Gifu University, Japan)*

**Concluding remarks. *Organizers Casida and Tomizawa***

**2. カリフォルニア大（パークレー校）J.Casida 教授の 80 歳を祝してのシンポジウム**

**Symposium & Celebration in Honor of Professor John Casida**

**Celebrating Prof. Casida, his Alumni and Colleagues' Contributions to the Chemistry, Metabolism and Mode of Action of Agrochemicals and Professor Casida's 80<sup>th</sup> Birthday!**