

# AAPS Connection

American Association of Pharmaceutical Scientists

April 2011

## Celebrate with AAPS in 2011!

AAPS will celebrate its 25th anniversary in 2011! AAPS has spent the past 25 years offering timely educational programming and professional development opportunities to pharmaceutical scientists. AAPS will commemorate its 25th year by recognizing the ways the organization has developed science and impacted health. Upcoming issues of the *AAPS Newsmagazine* will include articles featuring profiles of AAPS founders, past presidents, and members from diverse disciplines. AAPS will also highlight significant events in the pharmaceutical sciences and present AAPS's impact in the field during the past 25 years. Plus, we'll look ahead to what the future may have in store for the pharmaceutical sciences. There will be other exciting events throughout the year, all culminating at the AAPS 25th Anniversary Celebration at the 2011 AAPS Annual Meeting and Exposition in Washington, DC.



## Emerging Oral Delivery Strategies and Technologies to Enable Biopharmaceutical Performance of BCS II, III and IV Molecules

April 14–15, 2011

Sheraton Inner Harbor, Baltimore, MD, USA

### Goals and Objectives

For small molecules, approximately 60–70% of NMEs are BCS II and IV, and there is increasing need for drug delivery technologies to enable the development of “drug-like” molecules in a timely and cost-effective manner. Proper biopharmaceutical and ADMET properties along with adequate selectivity and potency minimize subsequent failure risks and increase the chance that the most promising leads are advanced to development candidates. In the case of macromolecules (BCS III), intestinal permeability and metabolism are still the major barriers to overcome, with no commercial product on the market despite significant advancements over the last two decades. Proper selection and evaluation of a suitable drug delivery technology using proper *in vitro/in vivo* methodologies by considering the physicochemical and biopharmaceutical properties of the molecule/macromolecule are critical to the overall drug discovery and development strategy and success. This feature will be highlighted throughout the workshop and introduced by two keynote talks on new paradigms in drug discovery and development and emerging drug delivery technologies. The workshop will then cover the following three areas, the first on general drug development principles and considerations and the other two on specific drug delivery technologies and case studies: physicochemical and biopharmaceutical properties and

## Network through AAPS's Online Career Center!



Networking is an essential part of any successful job search, and the AAPS Online Career Center makes it easier with the “email to a friend” feature. Perhaps you know someone at a company you're targeting, or maybe you'd like to assist someone who's looking for a job. With the AAPS Online Career Center, you could find a great job for yourself or see something that would be perfect for someone else. The AAPS Online Career Center makes it easy to pass that tip to a friend. Visit our website today at <http://careers.aaps.org> to view available openings.

evaluation tools, lipid-based systems and solid dispersions, and prodrugs and nanoparticles.

For more information, please visit  
[www.aapspharmaceutica.com/oraldelivery](http://www.aapspharmaceutica.com/oraldelivery).

## AAPS Workshop on Delivery and Disposition of Biotherapeutics across the Blood-Brain Barrier

May 14–15, 2011  
 Hilton San Francisco Union Square  
 San Francisco, CA, USA

### Goals and Objectives

In recent years, a significant effort has been guided toward the identification of novel therapeutic targets for central nervous system (CNS) disorders. However, these efforts have not translated into a robust success in developing biotherapeutic modalities for CNS diseases in the industry drug development pipeline. The primary reason is that the blood-brain barrier (BBB) isolates and protects CNS structures, creating a unique biochemically and immunologically privileged environment. Therefore, passage of macromolecules across this barrier is fraught with challenges. Further, even if 0.1–0.2% of any biotherapeutic drug modality crosses the BBB, there is no consensus in terms of method to be used or tissue/fluids to be collected for the optimum measurements of the therapeutic. In recent years, some technologies have evolved from academia or the small biotech industry that promise to deliver biotherapeutics in sufficient quantities. Although successful at the preclinical stage in lower vertebrates, none of these technologies have emerged in the clinical setting. What could be the issues stifling this progress? Investigators in academia as well as in industry have realized that there is a definite lack of proper communication channel that has prevented progress in the development of introduction of biotherapeutics across the BBB. Can we fix this?

For more information, please visit  
[www.aapspharmaceutica.com/Biotherapeutics](http://www.aapspharmaceutica.com/Biotherapeutics).

## 2011 AAPS National Biotechnology Conference



May 16–18, 2011  
 Hilton San Francisco, Union Square  
 San Francisco, CA, USA

The 2011 AAPS National Biotechnology Conference will take place May 16–19, 2011 at the Hilton San Francisco Union Square in San Francisco, California. Attendees will have access to one full week of educational programming during this annual event devoted to advancing health through innovations in biotherapeutics.

The week begins with the AAPS workshop Delivery and Disposition of Biotherapeutics across the Blood-Brain Barrier, taking place May 14–15. Also, the two-day 2011 AAPS Immunogenicity Training Course: Development of Ligand Binding Analytical Methods to Support Immunogenicity Testing Theoretical to Practical Considerations will take place May 14–15.

The week proceeds through the full 2011 AAPS National Biotechnology Conference programming. The 2011 programming consists of a plenary session, symposia, roundtables, posters, and hot topics. The week concludes with three short courses. Additionally, an exposition hall will be hosting major companies.

If you have any questions about the program or registration procedures, please contact the AAPS office at 703-243-2800 or [meetings@aaps.org](mailto:meetings@aaps.org). The 2011 AAPS National Biotechnology Conference is designed to provide a complete educational event allowing each and every attendee the ability to customize their experience with the goal of advancing health through innovations in biotherapeutics.

## AAPS Prestigious Awards Seek Nominations

The AAPS awards program provides a wonderful opportunity for scientists and graduate students to be recognized and honored for their valuable contributions to the pharmaceutical sciences. Nominate your colleagues for one of the prestigious awards to be presented by AAPS at the 2011 Annual Meeting and Exposition, October 23–27, in Washington, DC.

For more information, please visit [www.aaps.org/inside/Awards\\_Fellows](http://www.aaps.org/inside/Awards_Fellows) or contact Me'Gesha Portlock, Awards and Fellows Administrator, at [portlockm@aaps.org](mailto:portlockm@aaps.org).

**AAPS eLearning**  
 Check out our upcoming and archived webinars!  
[www.aapspharmaceutica.com/webinars](http://www.aapspharmaceutica.com/webinars)



## Upcoming AAPS Meetings

Log onto [www.aapspharmaceutica.com/meetings](http://www.aapspharmaceutica.com/meetings) for details.

### ► April 14-15, 2011

AAPS Workshop on Emerging Oral Delivery Strategies and Technologies to Enable Biopharmaceutical Performance of BCS II, III and IV Molecules

Sheraton Inner Harbor Hotel, Baltimore, MD, USA

### ► May 14-15, 2011

AAPS Workshop on Delivery and Disposition of Biotherapeutics across the Blood-Brain Barrier

Hilton San Francisco Union Square, San Francisco, CA, USA

### ► May 16-18, 2011

2011 AAPS National Biotechnology Conference

Hilton San Francisco Union Square, San Francisco, CA, USA

### ► October 22-23, 2011

AAPS Workshop on Facilitating Oral Product Development and Reducing Regulatory Burden through Novel Approaches to Assess Bioavailability/Bioequivalence

Walter E. Washington Convention Center  
 Washington, D.C., USA

### ► October 23-27, 2011

2011 AAPS Annual Meeting and Exposition

Walter E. Washington Convention Center  
 Washington, D.C., USA

