

23rd International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems

February 21-22, 2022

WEBINAR

14th International Conference & Expo on Chromatography Techniques

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Emerging Platforms for Targeted and Optimized Brain Drug Delivery

As noted by the World Health Organization, neurological and psychiatric disorders represent the greatest global economic and health burden, where more than 1 billion people are affected, and the number is rapidly growing because of the global pandemic. Even though this medical demand has been known for decades, the clinical development pipelines from the pharmaceutical industry are largely deficient, where the most recent commercialized drug for Depression was approved by the FDA after three decades of effort by the entire pharmaceutical industry.

The lack of clinical advancements is not a strategic failure, but rather a direct result of well-known physiological impedances to drug delivery such as the first-pass effect and the blood-brain-barrier, which either produce significant side effects and/or prevent drugs from reaching the therapeutic target. Thankfully, researchers have discovered viable therapeutic pathways to [bypass drug delivery](#) barriers, and advancements in [Nano medicine](#) will further enable drug delivery, but the greatest potential resides in emerging non-invasive medical device innovations that will provide both targeted and fully optimized drug delivery.

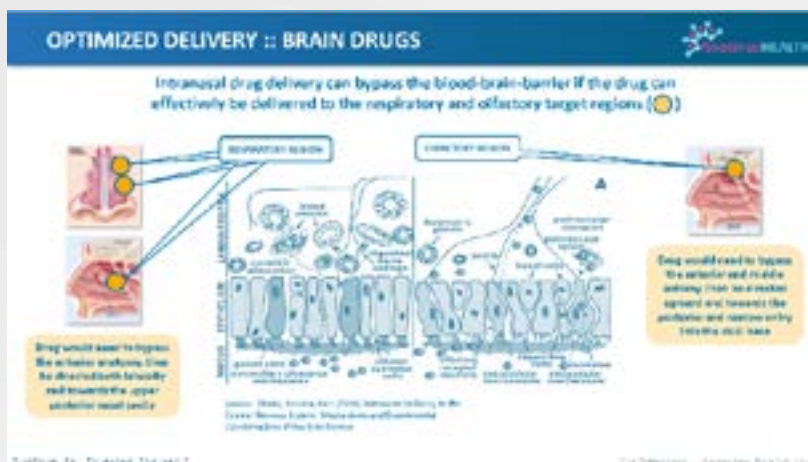
This keynote presentation will provide a view into the evolution of drug delivery, clinical dynamics that are motivating emerging classes of therapeutics, existing barriers that could impede advancements, and the latest developments that represent great potential for global health transformation. Specific examples of current research and development will be given, with a focus on the role of non-invasive medical devices to produce targeted and optimized drug delivery via local, systemic, and nose-to-brain routes. Lastly, the talk will discuss how emerging [medical devices](#) can also serve to substantially improve the well-known problem of treatment and medicine adherence, which itself is a \$300 billion per year problem, and poor adherence will continue to impede even the greatest of advancements in drug delivery and Nano medicine if the problem is not resolved.

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Biography

Don Turner has more than 28 years of experience building world-class companies, with a passion for commercializing innovations globally. He currently serves as the CEO for Neosinus Health and Board Member for UNC Center for the Business of Health. Previously, Don served as the SVP and Global Head of Commercialization for IBM Watson Health, Global Head of Commercialization at Merge Healthcare, Managing Director for Millennium Pharmaceuticals, Committee Chairman at Mass Biotechnology Council, and Advisory Board Member for Cisco Systems.

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