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# Systems Biology Approaches to Drug Discovery: Single Gene Targeting is Not Enough

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The most pressing unmet medical needs correspond to complex diseases caused by a combination of genetic and environmental factors. Traditional drug discovery strategies ignore the complexity of biological systems, screening compounds on individual targets rather than focusing on biomolecular networks. Despite growing evidence that the conditions we aim to treat are complex and require the development of treatments that exhibit polypharmacological properties, current drug discovery programs still rely on simplistic approaches during compound selection. Complexity is then considered during the development phase, where the costs and risks are much higher than in the discovery phase. This symposium aims to challenge the “one-target, one-disease” tradition and to discuss design and implementation of biological assays featuring multiple target strategies during the primary discovery steps.

### Organizers

**Mercedes Beyna**, MS, Pfizer Global Research and Development

**Manuel Duval**, PhD, Enumeral Biomedical Corp.

**Thomas B. Freeman**, MS, Boehringer-Ingelheim

**Jennifer Henry**, PhD, The New York Academy of Sciences

### Speakers

**Albert-László Barabási**, PhD, Northeastern University

**Alessandra Cesano**, MD, PhD, Nodality

**Manuel Duval**, PhD, Enumeral Biomedical Corp.

**Alison O’Mahony**, PhD, BioSeek

**Tony Pawson**, PhD, Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Canada

**Eric Schadt**, PhD, Mt Sinai School of Medicine

Presented by the **Biochemical Pharmacology Discussion Group** at the **New York Academy of Sciences** and the **New York Chapter of the American Chemical Society**.

The **Biochemical Pharmacology Discussion Group** is proudly supported by



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DEC  
11  
8:30 AM-  
4:30 PM

### Reception to follow

#### Registration

Member: \$30

Student/Postdoc Member: \$15

Nonmember (Academia): \$65

Nonmember (Corporate): \$85

Nonmember (Non-profit): \$65

Nonmember (Student/Postdoc/

Resident/Fellow): \$45

#### Location

The New York  
Academy of Sciences  
7 World Trade Center  
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New York, NY 10007-2157

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