DEPARTMENT OF CHEMISTRY AND
ENVIRONMENTAL SCIENCE

SPRING 2017 SEMINAR SERIES

Sponsored by: Purdue Pharma L.P.
Bristol-Myers Squibb Company

WEDNESDAY, APRIL 19, 2017                      TIERNAN HALL
2:30 PM                                                    ROOM 373

GUEST SPEAKER
Guodong Chen, Ph.D.
Bioanalytical and Discovery Analytical Sciences
Pharmaceutical Candidate Optimization
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Bristol-Myers Squibb Company
Princeton, New Jersey

TOPIC
Mass Spectrometry in Biologics Discovery: Challenges and Opportunities

ABSTRACT
Since the introduction of the first recombinant DNA-derived protein insulin in the 1980s and the
launch of Interferons and Interleukins in the 1990s, biologics market has shown a healthy
growth. This is largely due to advances in recombinant DNA technology that have provided the
means to produce therapeutic proteins. Mass spectrometry is uniquely positioned to cope with
additional challenges for the analysis of biologics, due to its analytical sensitivity, speed and
specificity. This presentation will present current status and advancements in mass spectrometry
characterization of biologics, including primary structural analysis and higher order structure
characterization in drug discovery.

BIOGRAPHY
Dr. Guodong Chen has extensive pharmaceutical research experience in major pharmaceutical
companies, including Eli Lilly, Schering-Plough and Bristol-Myers Squibb. Currently, he heads
analytical/mass spectrometry group at Bristol-Myers Squibb central New Jersey site. He has over
75 research publications in peer-reviewed journals and book chapters, three edited/co-edited
books on pharmaceutical and biopharmaceutical analysis, multiple patents on antibody
therapeutics and has given over 100 presentations at national/international conferences and academic institutes. His scientific contributions also include short course instructor at EAS, Pittcon and ASMS conferences, journal reviewer and session chair at various forums. He serves on the Editorial Board for *Journal of the American Society for Mass Spectrometry*. He received his Ph.D. in Analytical Chemistry from Purdue University under the direction of Professor R. Graham Cooks.

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