



**SCIENTIFIC
UPDATE**

We've got chemistry

MEDICINAL CHEMISTRY STRATEGIES TO MITIGATE PRECLINICAL SAFETY RISKS IN DRUG DISCOVERY

1 1/2 day
Course

2020

"The presenter was superbly prepared, well-organized, knowledgeable and easily approachable for questions."

Queen's University

30

Celebrating 30 years serving
the global chemistry industry

1989 - 2019

MEDICINAL CHEMISTRY STRATEGIES TO MITIGATE PRECLINICAL SAFETY RISKS IN DRUG DISCOVERY

A 1^{1/2} day course

INTRODUCTION

The identification of potential new therapeutic agents is met with significant challenges in preclinical discovery and development. Both efficacy and safety endpoints must be adequately assessed prior to testing a new investigational agent in humans. Perhaps the most challenging part of drug discovery is the mitigation of safety risks that arise during most drug discovery optimization efforts. In order to design and make safer drug candidates, medicinal chemists work with cross-functional drug discovery partners to understand, assess and mitigate safety risks associated with potential new drug candidates. Successful drug discovery teams will properly design and execute experiments that can best assess and discharge risks prior to first human dose (FHD). This must be accomplished in the context of anticipated human drug exposures and patient risk-benefit analysis. Through the lens of modern medicinal chemistry, this course explores the current best practices and methods used to identify, understand and mitigate common preclinical safety risks from both a strategic and tactical perspective. Importantly, the course also describes proactive approaches that can help medicinal chemists avoid many safety issues and deliver safer small molecule drug candidates. A key objective of the course is to improve medicinal chemist's preparedness for participation and leadership on cross-functional drug discovery teams.

COURSE OUTLINE

- > Principles of toxicology and safety assessment.
- > The Investigational New Drug (IND) application.
- > Target assessment, predictive toxicology and in silico methods.
- > Preferred drug properties to minimize toxicological risks.
- > Common off-target safety concerns and mitigation.
- > Managing on-target safety concerns.
- > Pharmacokinetics in preclinical safety assessment.
- > Drug metabolism and bioactivation.
- > Toxicophores and Structure Alerts.
- > Mechanisms and mitigation strategies for Drug-Induced Liver Injury (DILI).
- > Preclinical safety biomarkers and translation to the clinic.
- > Clinical candidate selection and FHD enablement.

"My colleague and I found the training course useful and informative. Dr. Norman was an exceptional teacher and the venue was conveniently located, well equipped and had excellent amenities. We enjoyed the course very much"

Amgen

IN-HOUSE COURSE

For 8+ people contact us to discuss holding this event In-House - sciup@scientificupdate.com

WHO SHOULD ATTEND?

The course content is specifically designed for medicinal chemists. Other members of cross-functional drug discovery teams, such as toxicologists, biologists, pharmacologists, pharmacokineticists and program managers may also gain valuable insights into medicinal chemistry approaches to preclinical safety avoidance and mitigation.



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Registration 7.45
Course commences 8.00 Day 1
Course adjourns 12:00 on Day 2

Course fees include a comprehensive course manual, refreshments

For all prices and dates please refer to our website



IT'S EASY TO REGISTER ONLINE

COURSE TUTORS

Dr Bryan H. Norman

Bryan H. Norman received his Ph.D. in Organic Chemistry at Emory University and was an NIH Postdoctoral Fellow at Penn State University. After three years at Monsanto/Searle, Bryan joined Eli Lilly and Company in 1993, where he led multiple cross functional drug discovery efforts, many of which culminated in clinical candidates for oncology, endocrine and pain indications. In addition to his expertise in medicinal chemistry, Bryan has significant cross functional drug discovery experience and expertise in additional disciplines, such as biomarkers, pharmacokinetic/pharmacodynamic (PK/PD) relationships, mechanisms of drug metabolism and toxicology. He has specific expertise in the mechanisms and mitigation strategies to avoid drug-induced liver injury (DILI). The breadth of his background has led to his service on many Due Diligence teams to assess potential in-license opportunities. In addition to drug discovery training and consulting activities, Bryan is currently an Adjunct Professor at the Indiana University School of Medicine, where he teaches multiple drug discovery topics.



Dr Bryan H. Norman

He is a Volume Editor and serves on the Editorial Board of Burger's Medicinal Chemistry, Drug Discovery and Development. Bryan is currently on the Board of Directors of the Medicinal and Bioorganic Chemistry Foundation and serves on various grant review committees. He has published over 45 papers in peer-reviewed scientific journals, been named an inventor on over 30 U.S. patents and given many invited lectures at scientific conferences and universities. His most recent research interests have focused on the identification of mechanisms associated with drug-induced liver injury and the discovery of novel analgesic agents for use in chronic pain.

REGISTRATION

Use our **fast online booking system by visiting**

www.scientificupdate.com

Alternatively you can mail or fax the attached registration form to:
Scientific Update
Maycroft Place, Stone Cross,
Mayfield, East Sussex, TN20 6EW, UK
Fax Number +44 1435 872734

How to Pay

When you register online, you can have the option to pay via credit card (Amex, MasterCard or Visa). A receipted invoice will be automatically generated once paid and sent via email. Should your company wish to pay by cheque or bank transfer, on booking, bank details will be supplied with an invoice.

Group Discounts

Group discounts are available on two or more attendees - see registration form. This offer only applies if bookings are made simultaneously and from the same billing address.

Confirmation of your registration

These will be sent via email.

Late Applications

For late applications, please register online or fax the completed registration form, including credit card payment information.

Cancellations/Refunds

Should you be unable to attend and cancel in writing no later than 1 month before the start of the course, Scientific Update will refund your registration less £300.00 (or equivalent in €/€) processing fee. Unfortunately refunds are not possible after that date. Substitutions can be made at any time.

CONSULTANCY SOLUTIONS

OUR EXPERTISE

We are specialists in Industrial Organic Chemistry, solving problems and managing projects in Process Research and Development covering the following industries:

- > Pharmaceuticals
- > Fine Chemicals
- > Agrochemicals
- > Flavour & Fragrance
- > Specialty Chemicals

OUR TEAM

You will be assigned one leading consultant but you will benefit from our team with over 100 years collective industrial experience.



OUR APPROACH

We will sign a CDA and discuss your project by telecom or webinar to assess what benefits we can offer. This initial consultation (up to 4 hours) is free of charge. After which we will offer a detailed proposal with the service we can provide tailored to your individual requirements.

EVENT:**DATES:****LOCATION:****No. of attendees****Price****NEW FAST ONLINE REGISTRATION**

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 Surname
 Job Title
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 Country
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Second attendee

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 Surname
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Third attendee

Title (Dr/Prof/Mr/Mrs/Ms)
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To pay by credit card a secure link will be provided once you receive your booking confirmation email, this will then take you to a secure payment gateway.

*payments via Amex can only be made in US dollars

Currency Payments

If you select to pay in a different currency than the event is advertised in, the amount charged will be based on the exchange rate at the time of preparing the invoice.

Discounts

Complete the details for either two or three delegates and your discount will automatically be applied. This offer only applies where all delegates are booked simultaneously and at the same billing address.

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Data Protection

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For full terms of business and payment details please see our website

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