

Biotech & Pharma Business Summer School

September 3 – 6, 2014 Campus Berlin-Buch

German Life Sciences Association (VBIO e.V.) and the Life Science Learning Lab are offering a practice-oriented training course entitled:

„Biotech & Pharma Business Summer School – from Target to Market“

Target Group

20 participants with an academic degree from the fields of basic research, biotechnology and research-oriented pharmaceutical companies

Objectives

The course will provide participants with a comprehensive overview of the entire drug development process in biotechnology and in the pharmaceutical industry – starting with the initial idea, extending to development and even including marketing.

The team of lecturers is comprised of renowned experts from the pharmaceutical industry, biotech companies, CROs and leading research institutes. The course consists of lectures introducing each topic and case-related practical exercises appropriate for each level of drug development.

Highlights & Advantages

- Interactive and case-related practical exercises make learning easier
- Course provides a basic understanding of how the pharmaceutical industry „ticks“
- A unique chance to gain insight into the drug development process and to establish contacts
- Opportunity to discuss individual questions with the experts

Documentation

At the beginning of the course, all participants will receive comprehensive seminar materials. These include all PowerPoint slides, work sheets for the group exercises, a glossary with a list of abbreviations as well as useful links and lists of further reading for each module.

Cost

The course fee is EUR 1,395 plus German VAT and includes participation in the seminar, course materials and meals indicated in the program. For participants from academic institutions, the course fee is EUR 1,095 plus German VAT.

Individual members of VBIO and members of associations affiliated with VBIO receive a 10% discount on the relevant fee.

Inexpensive accommodation is available in Hotel Bel Air and Hotel Alt-Karow and in the Campus guest houses.

Certificate of Participation

The participants will receive a certificate of participation in the seminar highlighting the content, main topics and objectives of the course. The certificate is issued by the VBIO and the participating institutions that contributed to the development of the course.



1st Day: September 3, 2014

Life Science Learning Lab, Campus Berlin-Buch

08:30 a.m.

Registration and breakfast snack

09:00 a.m.

WELCOME AND INTRODUCTORY PRESENTATIONS:
OBJECTIVE AND STRUCTURE OF THE COURSE

Dr. Kerstin Elbing, VBIO e. V.

Dr. Ulrich Scheller, BBB Management GmbH

09:30 a.m.

GUIDED TOUR THROUGH THE TARGET SCREENING UNIT
AT THE FMP

Dr. Jens Peter von Kries, FMP

Module 1

Overview of the Drug Development Process Chain – Phases, Challenges, Trends

10:45 a.m.

SPECIAL REQUIREMENTS OF DRUG DEVELOPMENT AND CURRENT TRENDS

- Brief overview of the drug development process chain; drug discovery, preclinical development, exploratory phase I and II clinical trials, phase III trials, clinical phase IV, approval (concise definitions)

PD Dr. Wolf-Stefan Richter, Pharmtrace GmbH

12:00 noon

Coffee break

Module 2

Drug Delivery and Drug Targeting

12:15 p.m.

- Traditional forms of pharmaceutical development
- The role of drug delivery technologies in the R&D process

Hildebrand Pharma Consulting

01:30 p.m.

Lunch break

Module 3

From Active Agent to Preclinical Trial

02:15 p.m.

- The role of preclinical drug testing
- Conditions and laws: risk-benefit analysis prior to the start of the clinical trial
- Assessment of the required pharmacokinetics – expected pharmacokinetics in humans
- Safety analysis during clinical development
- Definition of the therapeutic goal
- Selection of pharmacological models
- Relevance of animal studies and transferability of findings
- Determination of type and site of action, mechanism of action, potency

Dr. Johannes Nagelschmitz, Bayer HealthCare AG

03:30 p.m.

Coffee break

03:45 p.m.

- Impact of human metabolism on drug tolerability
- “Risk” toxicology: mechanism-related (possible side effects), compound-related
- Consideration of toxicokinetics: exposure analysis, distribution, accumulation
- Safety pharmacology: study of the organ systems

Dr. Johannes Nagelschmitz, Bayer HealthCare AG

05:00 p.m.

PRACTICAL EXERCISE: interpretation of toxicological data

In small groups, the participants will evaluate the toxicological data of an exemplary case. The aim is to develop an understanding of the measures taken in practice to determine the risk of occurrence of adverse drug reactions prior to administration in humans. Subsequent presentation of the group work and discussion.

Dr. Johannes Nagelschmitz, Bayer HealthCare AG

07:00 p.m.

Buffet dinner



2nd day: September 4, 2014

Life Science Learning Lab, Campus Berlin-Buch

Module 3

From Active Agent to Preclinical Trial

09:00 a.m.

PRINCIPLES & EXAMPLES FOR THE DEVELOPMENT OF CANCER DRUGS

Dr. Michael Becker, epo GmbH

11:00 a.m.

Coffee break

Module 4

Requirements for Authorization to Conduct a Clinical Trial and for Approval as a Drug

11:15 a.m.

- Requirements in phases I-IV of clinical development; regulatory processes and authorization for clinical trials in the EU and the US
- Global regulatory strategies to obtain approval

Dr. H. Günter Hennings, Hgh regulatory sciences Ltd.

12:15 p.m.

- Active dialog with authorities as contribution to successful development of scientific and regulatory advice

Dr. H. Günter Hennings, Hgh regulatory sciences Ltd.

01:30 p.m.

Lunch break

02:15 p.m.

Based on a specific drug as example, the application procedure will be discussed, whereas the differences in application procedures and application types in the EU and the US will be highlighted.

Dr. H. Günter Hennings, Hgh regulatory sciences Ltd.

06:00 p.m.

Dinner

07:00 – 09:00 p.m.

Dinner lecture: Clinical trials in oncology – a critical evaluation of the clinical significance of phase II/III/IV trials and the need for „post-marketing surveillance“

Prof. Dr. Wolf-Dieter Ludwig, HELIOS Klinikum Berlin-Buch



3rd day: September 5, 2014

Life Science Learning Lab, Campus Berlin-Buch

Module 5

Drug Manufacturing: Requirements, Resources, Processes

08:00 a.m.

- Legal basis
- GMP guide
- EU-GMP-Guide requirements for documentation in manufacturing and quality control

Uwe Werner, IDT Biologika GmbH

09:30 a.m.

Coffee break

09:45 a.m.

Together with the lecturer, the participants shall plan the manufacture of a clinical trial drug according to GMP principles.

Uwe Werner, IDT Biologika GmbH

11:15 a.m.

! PRACTICAL EXERCISE: GMP documents

In small groups, the participants shall practice creating specific GMP documents for manufacturing and quality control. Subsequent presentation of results u

Uwe Werner, IDT Biologika GmbH

12:45 p.m.

Lunch break

Module 6

Clinical Drug Testing Prior to Approval

01:30 p.m.

FROM THE INITIAL APPLICATION TO THE PROOF OF CONCEPT: PRINCIPLES, CONTENT AND REQUIREMENTS OF PHASES I – II:

- Safety and tolerability
- Pharmacokinetics characterization and its importance for further development

PD Dr. med. habil. Matthias Grossmann, PAREXEL International GmbH

04:00 p.m.

Coffee break

04:30 p.m.

PHARMACODYNAMICS OR CLINICAL BENEFIT?

Questions, content and requirements from proof of concept up to approval

Instruments to avoid bias and chance findings

PD Dr. med. habil. Matthias Grossmann, PAREXEL International GmbH

06:00 p.m.

GUIDED TOUR OF THE CAMPUS AND BARBECUE

4rd day: September 6, 2014

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Module 7

Intellectual Property

09:00 a.m.

GENERAL PRINCIPLES & OVERVIEW OF PROPERTY RIGHTS

The patent process – application, examination, granting
Relevance of patent rights in the biotech & pharma sector
Rafaela Kunz, Patent2lp

10:45 a.m.

Coffee break

11:00 a.m.

FIRST STEPS TO PATENT RESEARCH

Overview of national & international databases

11:30 a.m.

PRACTICAL EXERCISE with all participants: patent research
Rafaela Kunz, Patent2lp

Module 8

Business Development – and the Licensing Business

12:00 noon

BUSINESS DEVELOPMENT THROUGH PATENTS & LICENSES

The licensing business
Rafaela Kunz, Patent2lp

12:30 p.m.

PRACTICAL EXERCISE: Successful negotiation

01:30 p.m.

Lunch break

Module 9

Project Planning and Management in Drug Development

02:00 p.m.

- Project planning guidelines for the development, production and approval of biological classes
 - Project structure/process organization
 - Milestone planning, risk and portfolio management
- Dr. Mathias Schroedter, Adrenomed AG*

03:30 p.m.

Coffee break

03:45 p.m.

PROJECT PLANNING WITH PRACTICAL EXAMPLES

Dr. Mathias Schroedter, Adrenomed AG

05:15 p.m.

PRACTICAL EXERCISE with all participants: development of a project plan for the development and approval of a drug; presentation of results and discussion.

Dr. Mathias Schroedter, Adrenomed AG

06:00 p.m.

Final discussion and presentation of the certificates

06:30 p.m.

Conclusion

