



École de l'innovation thérapeutique Ariis / Inserm
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Châteaufort Les campus – Seine Port (77)

EMTRAIN and the IMI E&T programme



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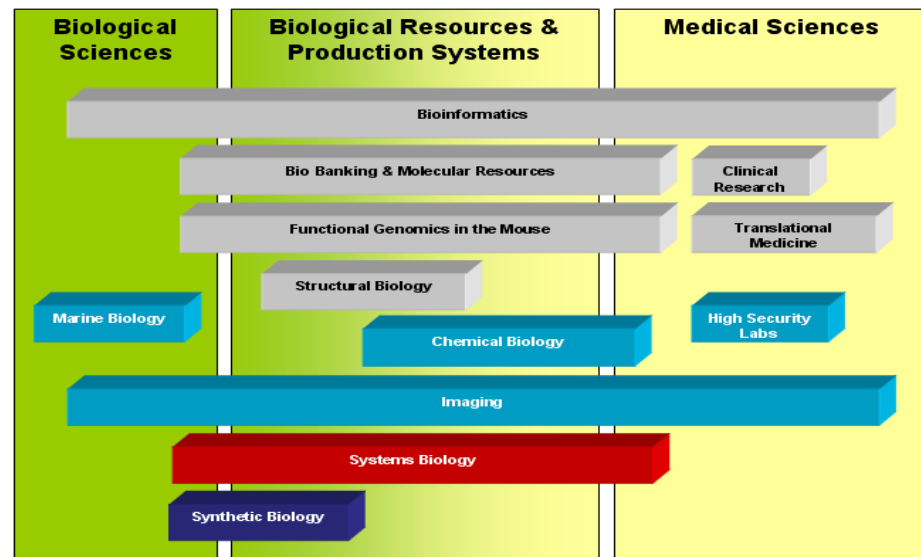
- EMTRAIN (www.emtrain.eu)
 - Survey on national training capacity, needs and strategy
 - Course catalogue: www.on-course.eu
 - Quality, accreditation for training
 - Lifelong learning: LifeTrain
- PharmaTrain (www.pharmatrain.eu)
 - Syllabus for medicines development: “pharmaceutical medicine”
 - Clinical research training (eCLIC) and additional modules

European education platform covering the whole life-cycle of medicines research, from basic science through clinical development

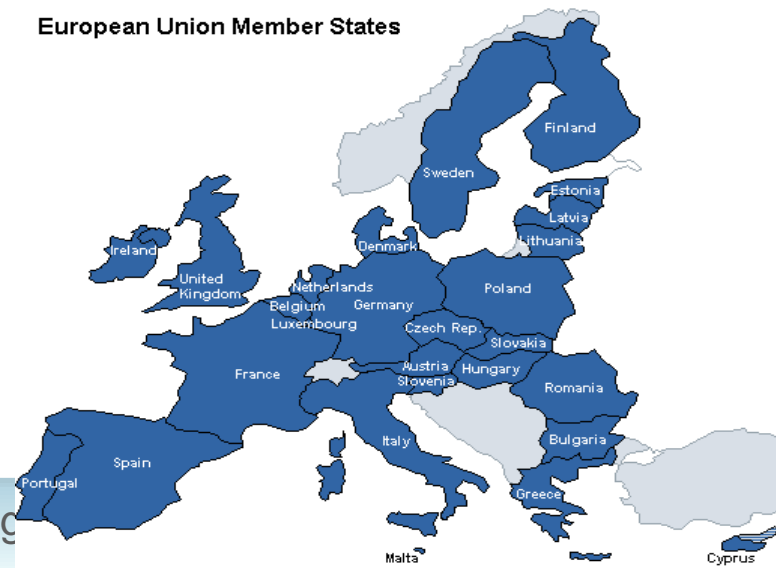
www.emtrain.eu

EMTRAIN develops a strategy and tools to train R&D professionals, bridging gaps between

- disciplines
- countries
- industry and academia



European Union Member States



ESFRI - Biological and Medical Sciences

2006

BBMRI - Biobanks

EATRIS - Translational research facilities

ECRIN - Clinical trial platform

ELIXIR – Data repositories

Infrafrontier - Mouse archives and clinics

INSTRUCT - Structural biology facilities

EMBRC - Marine biology resources

ERINHA - High-security labs

2008

EuroBioImaging – Imaging facilities

EU-Openscreen - Chemical libraries

2010

ANAE - Analysis and experimentation on ecosystems

ISBE – Infrastructure for systems biology

MIRRI – Microbial resources





Survey on training needs, capacity, strategy academic side

- 1.1 Status of biomedical/life science/drug development education and training
- 1.2 Academic capacity for Master and PhD degree
- 1.3 Life Long Learning
- 1.4 Public Private Partnerships (PPP) structuring (and funding) e.g. Bioclusters...
- 1.5 Specific funding for PPP PhD programmes
- 1.6 Programmes covered by academic, private, PPP ?
 - pharmaceutical medicine
 - MD-PhD programme
 - training on emerging technology and biotechnology
 - training on information technology and bioinformatics
 - training on project management and intellectual property
 - training of medicines R&D professionals that are neither MD nor pharmacists
 - life-long training and continuous career development
 - other emerging areas :
- 1.7 Curricula oriented towards international careers (taught in English?)
- 1.8 National research and innovation agenda in the health sector?
- 1.9 National education and training strategy document in the health sector?



Survey on training needs, capacity, strategy industry side

- 2.1 Health industry, special reference to the R&D activities ?
- 2.2 Covers the whole spectrum of drug development, or specialises in specific segments (eg. chemistry, biotechnology, preclinical, clinical, etc) ?
- 2.3 National health industry specialising in specific disease areas ?
- 2.4 Trends for the development of the health sector industry (number of companies, employees)?
- 2.5 Current and future needs of health industry in terms of education and training?
- 2.6 Professional federation(s)/association(s) dealing with education and training issues (initial and continuing professional development):
- 2.7 Strategy / blueprint document on education and training issues for initial education and continuing development ?
- 2.8 Link between academia and companies during the learning curricula (Master and PhD and CPD level)?

on-course



inspiring science

on-course[®] is the most comprehensive and sustainable biomedical and medicines research and development postgraduate course portal in Europe.

<http://www.on-course.eu/>

- **Quality** – Every course we offer is described by a predefined set of quality criteria and labelled accordingly so you know what to expect.
- **Transparency** – This is the first platform that enables users to compare existing training in Europe in terms of costs, credits and recognitions, location and duration.
- **Influence** – In case your search was not yielding satisfying results, you can ask for any specialised courses you are looking for and/or send feedback on any other related aspect. Through the feedback provided to **on-course**® you will influence the future of Europe's educational landscape.
- **Availability** – **on-course**® includes courses provided in over 20 different languages covering more than 60 scientific/ therapeutic biomedical areas.
- **Easy** – To navigate, to use and to interact!

- 📌 **Visibility – on-course[®]** will become the reference in biomedical postgraduate courses in Europe and has the potential to promote your courses and increase your visibility in the biomedical research community.
- 📌 **Access** – Have access to a range of tools that foster efficient communication and keep you updated with the rapidly changing education requirements through tight linkage with employers, professional bodies and course seekers (professionals as well as students).
- 📌 **Gauge interest** – Find out what's in demand and what the needs are of students and the industry and other employers.

MBA Biotech and Pharmaceutical Management

Start Date: Oct 2012 - [Add to compare list](#)

Country: Austria - Danube University Krems, Masters - taught

Full-time duration: 1 Years - Part-time duration: 2 Years

Increasing demands for innovative therapies and mounting cost pressures characterize the development of novel pharmaceutical and medical products. Managers in biotech, pharmaceutical and medical device companies need to understand the factors driving health care systems on the one hand, and the industry, on the other hand. It is critical to have an insight to the five main areas of the value chain: Research ? from starting up their own biotech companies, driving compounds and products through R&D to negotiating market access with authorities. Graduates of the Danube Professional MBA Biotech & Pharmaceutical Management program will be prepared to take over demanding managerial positions in (bio)pharmaceutical and medical device companies in a competitive international environment. The General Management modules are shared with the MBA Finance program, the specialization modules are specific for the Danube Professional MBA Biotech & Pharmaceutical Management program



Accreditation of CPD courses

Course Quality

- EMTRAIN has developed a position paper with their IMI E&T partner projects.
- This statement recommends a set of standards for quality assessment of continuing professional development (CPD) for medicines research and development.

Klech H, Brooksbank C, Price S, Verpillat P, Bühler FR, Dubois D, Haider N, Johnson C, Lindén HH, Payton T, Renn O,

European initiative towards quality standards in education and training for discovery, development and use of medicines.

Eur J Pharm Sci. 2012 Apr 11;45(5):515-20. Epub 2011 Dec 9.



Common Framework for CPD LifeTrain Initiative

EMTRAIN and the other IMI Education and Training projects have been developing a **concept paper** for **continuing professional development**. This has been done in conjunction with a number of **EU Professional/Scientific bodies**.

Planned expansion of the consultation process:

Towards a Common Framework for Continuing Professional Development in the Biomedical Sciences: A Concept Paper Based on the First IMI Education and Training LifeTrain Workshop, Manchester, 4-5 October 2011

http://www.emtrain.eu/images/stories/news/concept_paper_lifetrain_march%205th.pdf

- PharmaTrain Syllabus for Medicines Development provides the content for all education and training activities including Introductory, Base Diploma Course and Master Programme Modules.
- It covers the drug development process from discovery of a new chemical or biological entity through research and development to regulatory approval, pharmacovigilance, health economics, commercialisation and lifecycle management of a medicine
- Clinical investigation course : eCLIC, additional modules
- OECD initiative: „global core competences“

