

# **Department of Pharmaceutics and Analytical Chemistry**

**Short presentation of the department**

**Department of Pharmaceutics and Analytical Chemistry**

**About 34 full time VIP (=Full, Associate+Assistant  
Professor) /57 incl. Temporary**

**About 53 "Other Staff"**

**About 59 Ph.D: Students**

**"**

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Main: Faculty of Pharmaceutical Sciences - University of Copenhagen  
www.farma.ku.dk/index.php?id=3742

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## Faculty of Pharmaceutical Sciences

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### Departments

- ▶ Department of Pharmaceutics and Analytical Chemistry
- ▶ Department of Pharmacology and Pharmacotherapy
- ▶ Department of Medicinal Chemistry

### Calendar

- ▶ 2011.01.13 DRA Symposium: Future formulation strategies
- ▶ 2011.01.14 PhD defence: Charlotte Rode Mosbek (Small Angle X-Ray Scattering Studies of Blood Coagulation FV11 and Antibodies at High Concentration)
- ▶ 2011.01.14 PhD defence: Vishal Koradia (Understanding Implications of Anhydrate-Hydrate Forms in Pharmaceutical Development)
- ▶ 2011.01.28 The Day of Research


PHARMA : Main




### Faculty of Pharmaceutical Sciences

Drugs constitute the core in all the Faculty's research and education. Drug research is interdisciplinary by nature. Research and education at the Faculty thus comprise an integration of natural-, health-, social- and technical sciences.


#### MSc in Pharmaceutical Sciences




#### Postgraduate courses



#### MSc in Medicinal Chemistry



#### Read about the new Intranet



### The Faculty in the media

After the University of London, Bjarke Abrahamsen packed his bags and returned home to Denmark in 2008 for a postdoc at the University of Copenhagen, which ranked second for international locations in our 7th Annual Best places to Work for Postdocs survey.

December 3, 2010 | Denmark  
**Ethics council warns against 'brain doping'**  
Medication should be used to treat illness, not...

December 3, 2010 | The Copenhagen Post  
**Ethics council warns against brain doping**  
Medication should be used to treat illness, not...

August 24, 2010 | Analytical Chemistry (ACS Publications)  
**Interfacial Complexes between a Protein and Lipophilic Ions at**

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Department of Pharmaceutics and Analytical Chemistry: Faculty of Pharmaceutical Sciences  
www.farma.ku.dk/index.php/Department-of-Pharmaceutics-an/459/0/

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## Department of Pharmaceutics and Analytical Chemistry


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### Department of Pharmaceutics and Analytical Chemistry

- ▶ Research
- ▶ Teaching
- ▶ Theses in English
- ▶ Staff

PHARMA : Departments : Department of Pharmaceutics and Analytical Chemistry

### Department of Pharmaceutics and Analytical Chemistry



#### Mission

The Department of Pharmaceutics and Analytical Chemistry's mission is to contribute to the development and exchange of knowledge within the areas of pharmaceutics and analytical chemistry, both in Denmark and internationally and to provide society with new research results and new knowledge.

The mission is to be fulfilled through:

- Conducting basic as well as applied research at the highest international level.
- Offering research-based teaching at the highest international level in the field of pharmaceutics and analytical chemistry. This includes research-based undergraduate and graduate level education, PhD-programmes and research-based continuing education programmes.
- Participation in dissemination and exchange of knowledge with the surrounding community.

Head of Department  
Flemming Madsen

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#### Head of Department

Flemming Madsen  
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E-mail: fm(at)farma.ku.dk

#### Theses in English


Theses catalogue 2012 is issued, see.  
Or see more about theses page

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Analytical Chemistry  
Faculty of Pharmaceutical Sciences

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PHARMA : Departments : Department of Pharmaceutics and Analytical Chemistry : Research

**Research**



**Research competence - Drug products and drug substances in centre**

The Department of Pharmaceutics and Analytical Chemistry conducts basic as well as applied research within the areas of pharmaceutics and analytical chemistry at the highest international level.

Having drug products and drug substances as focus in all strategic research areas the department is unique in Denmark, when it - in a broad sense - comes to pharmaceutics and analytical chemistry.

The scientific and teaching objectives of the department encompass the areas of:

- Pharmaceutical technology
- Drug delivery and formulation
- Drug related analytical and physical chemistry
- Nanomedicine and Nanotoxicology
- Toxicology and environmental chemistry

Research projects are carried out in collaboration with research groups from other departments at the Faculty and University, other Danish and foreign universities, governmental institutions and pharmaceutical industries.

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Research: Faculty of Pharmaceutical Sciences

www.farma.ku.dk/index.php/Research/465/0/ Google

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Faculty of Pharmaceutical Sciences

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**Department of Pharmaceutics and Analytical Chemistry**

**Research**

- Pharmaceutical Technology
- Pharmaceutical formulation/Poorly soluble drugs
- Pharmaceutical and Physical Chemistry
- Biomacromolecular Drug Delivery
- Drug Transporters in ADME
- Analytical Chemistry/Bioinorganic Chemistry
- Drug Metabolism and Analytical Chemistry
- Toxicology and Environmental Chemistry
- Nanomedicine

Teaching  
Theses in English  
Staff

**Research**



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## Teaching

### Teaching in English at The Department of Pharmaceutics and Analytical Chemistry



The Department of Pharmaceutics and Analytical Chemistry is conducting the following courses in English

**Graduate courses**

**A-304 Efficient Analysis of Data**

**Master of Science in PAT - a cooperation between PHARMA, LIFE and DTU.**  
Courses at The Department of Pharmaceutics and Analytical Chemistry

**Introductory Course**  
Production

**Thesis in English**

It's possible to write your master thesis in English at the Department of Pharmaceutics and Analytical Chemistry.  
Go to [Thesis in English](#) to see which projects are available.

**PhD courses**

For further information on the PhD study programme, go to the following page:  
[About the PhD Study](#)

Department of Pharmaceutics and Analytical Chemistry are responsible for the following courses:

Analytical Challenges in the Formulation Design of Pharmaceutical Proteins  
Biological membranes. Drug Targets and Absorption Barriers  
Drug Delivery  
Sample Preparation and Separation Techniques  
Mass Spectrometry Coupled to Separation Techniques in Bioanalytical Chemistry

**Master kurser**

For further information on the Master education MIND, go to the following page:  
[Master of Industrial Drug Development](#)

The Department of Pharmaceutical and Analytical Chemistry are responsible for the following courses:  
Drug Regulatory Affairs in Drug Development  
Drug formulation and delivery  
QA, QC, GXP for pharmaceutical production

Undervisning Institut for Farmaci og Analytisk Kemi

**Valgfrie kurser**  
Gå til siden [fagbeskrivelser/valgfrie kurser](#) for nærmere information

Projekt i analytisk kemi  
Lægemiddel metabolisme  
Bioanalytisk kemi  
Efficient analysis of data  
Bioorganisk kemi  
Individuelt miljøprojekt  
Miljøkemi  
Akvatisk miljøkemi  
Systemanalyse og biosimulering for farmaceuter og miljøkemi  
Lægemidlers kemiske reaktivitet og stabilitet  
Statistisk forsøgsplanlægning  
Controlled Release  
Farmaceutisk præformulering  
Registrering af lægemidler  
Videregående lægemiddelformulering  
Industrielt lægemiddelproduktion og kvalitetssikring  
Industrielle fremstillingsprocesser  
Patentering i farmaceutisk forskning og udvikling  
Farmaceutisk formulering af peptider og proteiner

**Master of Science in PAT - et samarbejde mellem FA og DTU**  
Introductory Course  
Production

**Ph.d kurser**  
For nærmere information om ph.d. - uddannelsen, gå til siden [Ph.d. - uddannelsen](#)

Institut for Farmaci og Analytisk kemi er ansvarlig for følgende ph.d. - kurser:  
Analytical challenges in the formulation design of pharmaceutical proteins  
Biological membranes, Permeation barriers and drug targeting  
Drug delivery  
Sample preparation and separation techniques  
Mass spectrometry coupled to separation techniques

**Master kurser**  
For nærmere information om masteruddannelsen MIND, gå til følgende side:  
[Master of Industrial Drug Development](#)

Institut for Farmaci og Analytisk kemi er ansvarlig for følgende master kurser:  
Drug Regulatory Affairs in Drug Development  
Drug Formulation and Delivery  
QA, QC, GXP for pharmaceutical production

**Alle institutter**

Farmaceutisk grundkursus  
Videnskabsteori  
Speciale

København Universitet  
Det Farmaceutiske Fakultet  
Vilhelmsborgvej 2

Tlf. 35 33 60 00  
Fax 35 33 60 01  
Mail [farma@farma.ku.dk](mailto:farma@farma.ku.dk)

For nærmere information om masteruddannelsen MIND, gå til [www.farma.ku.dk/index.php/Undervisning/...](#)

