

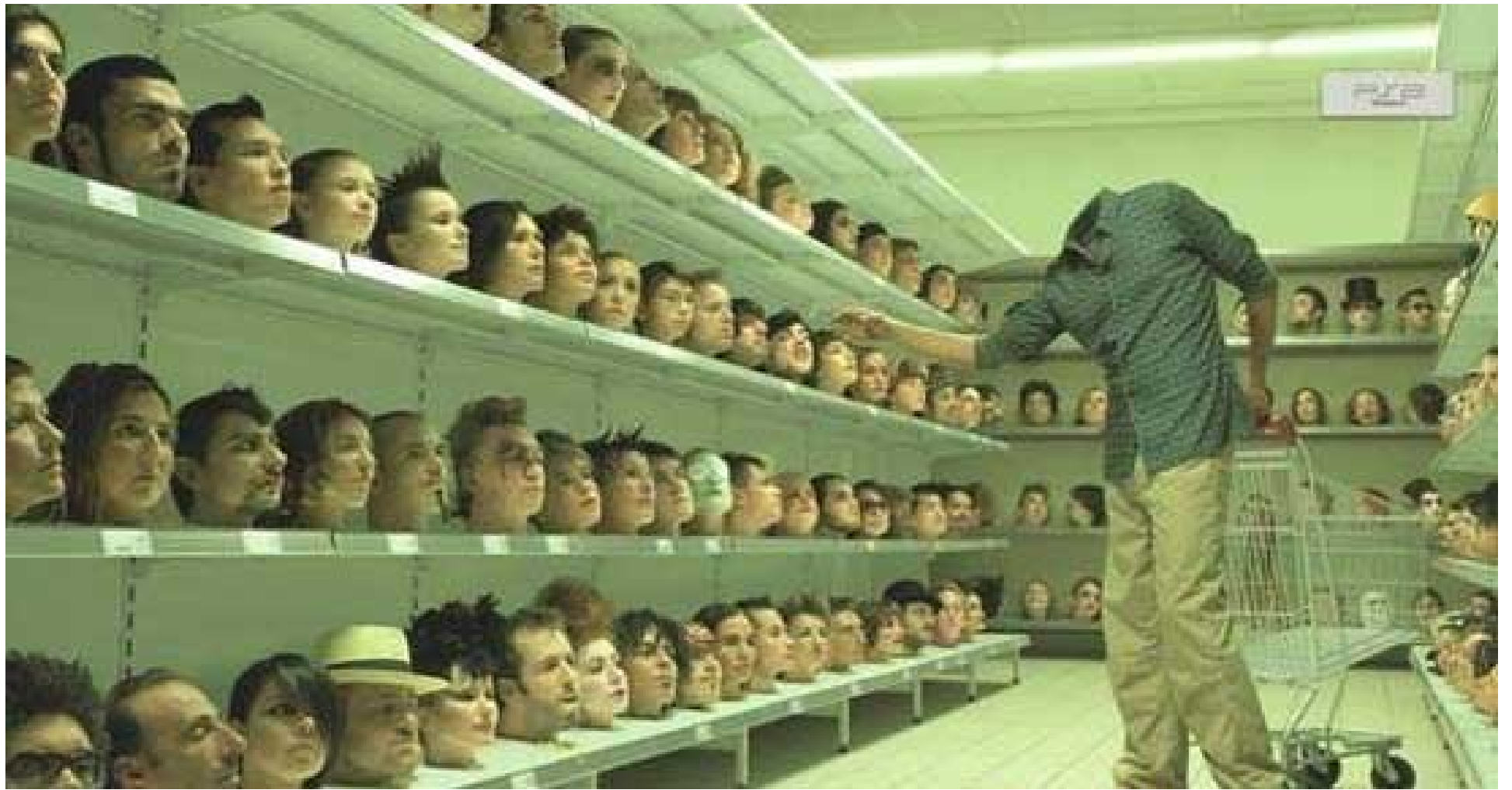
# Scandinavian Models for Graduate Schools & Research Schools

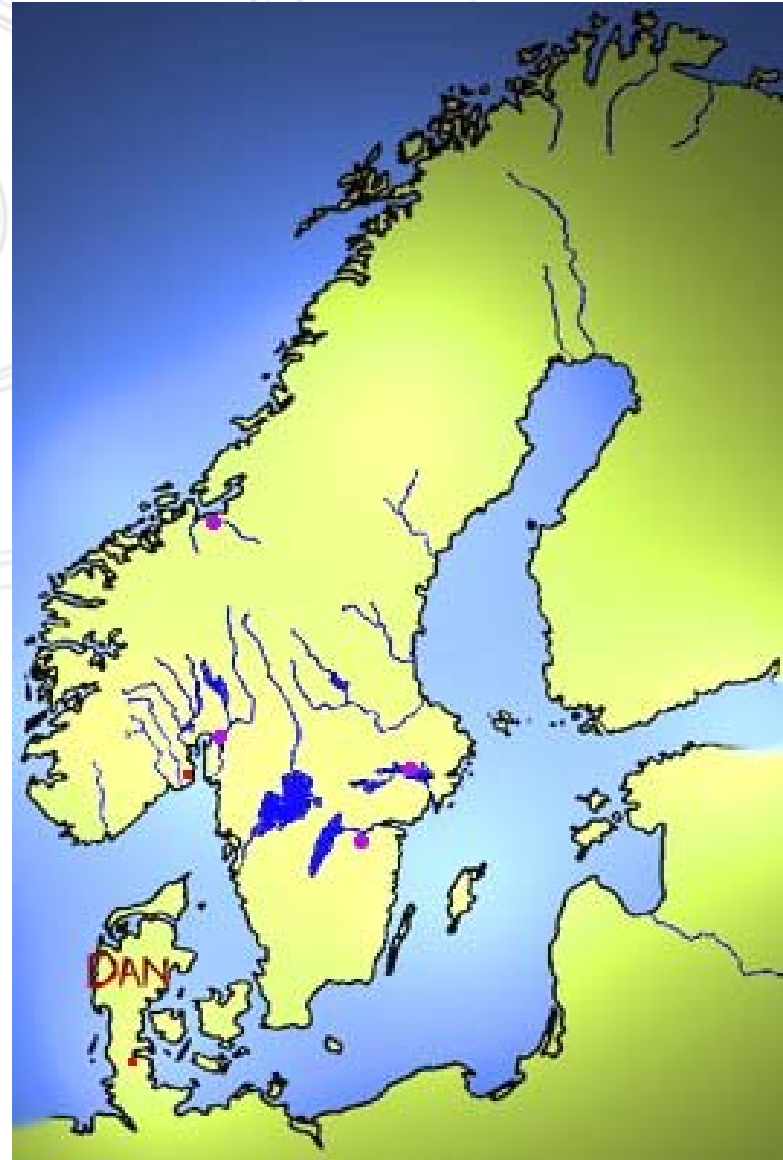
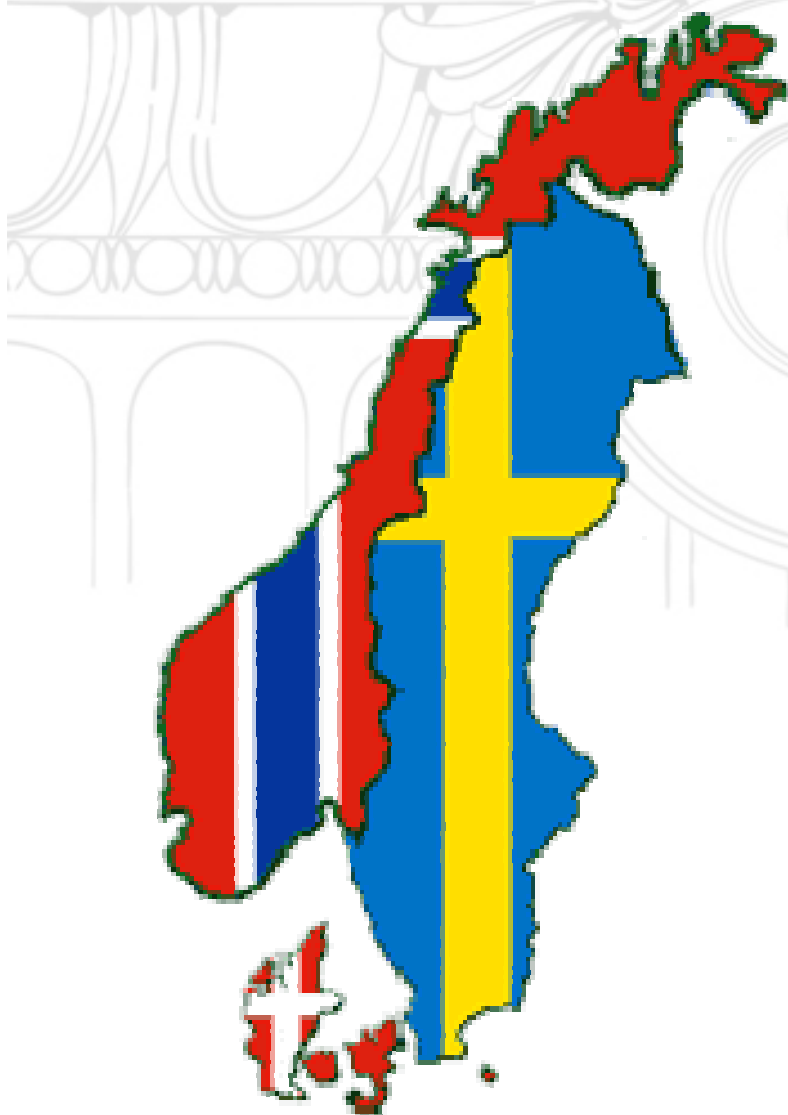
3rd UKCGE European Conference  
"Impact of Bologna on Doctoral Education in Europe"

*Gry Kibsgaard*



UNIVERSITY OF BERGEN





## Scandinavian Models For Graduate Schools & Research Schools

- Doctoral education and PhD in Scandinavia
- Concepts of research/graduate schools
- Models by cases
- Possible future landscape of research schools





## Doctoral education and PhD in Scandinavia

- Denmark:
  - PhD degree system in 1993
  - PhD – a public good: Research schools national funding scheme
  - New law in 2007: PhD schools
- Sweden:
  - Research school model since 1970, PhD degree system in late 1970
  - National research schools, 2001



# Doctoral education and PhD in Scandinavia

- Norway:
  - New PhD degree system 2002 (earlier dr. art, dr. juris etc)
  - Research schools 2002-3
  - National research schools 2005, 2008



## Common grounds for structured doctoral training

- Master education not integrated in graduate/research schools
- Doctoral education structured, 3-4 years, supervision, courses and thesis, public defense
- Funding
  - Research schools, part of basic budget of Universities
  - National research schools, some basic external funding
  - National funding of PhD-students (scholarships, fellowships, PhD-positions)



## Common challenges in Scandinavian doctoral education

- Critical mass, small research environments
- Doctorates use too long time to finish (Norway av. 10 years)
- Completion rate must be improved
- Doctorates are too old when they graduate
- Need for more interdisciplinarity (Sweden)
- To meet these challenges Scandinavia has chosen to introduce research schools as one possible structure for doctoral training



# Concepts graduate/research school

- **Denmark:** Council for doctoral education (*Forskeruddannelsesrådet*) definition of research school:
  - An organized unity of a **certain size** with a **well defined management**. This management will in cooperation with one or several research institutions, institutions, businesses etc assure that a larger group of PhD students, within a well defined research area, will be offered a **structured and continuous educational training** in a high level. A research school should normally include **several partners** out of which at least one should be a university. Doctoral training activities at an institute or a similar scientific unity at a University may also in its totality be organized as a research school.

(Forskningsstyrelsen nov 2003)



# Concepts graduate/research school

- **Sweden:** Swedish National agency for Higher Education, characteristics of a research school:
  - An organized unity of a **certain size** with a **well defined management**
  - Strengthening of **supervision** – supervisory teams
  - **Network and cooperation** with HEI, (cross- or multidisciplinary, national/international) private sector/industry
  - **Inter- or multidisciplinary**
  - Admission of several PhD-students in cohorts
  - Organized **courses**
  - **Financing** of doctoral education for PhD-students
  - Common **profile** or scientific thematic focus

(Högskoleverket 2004, Swedish prop 1992/93)



# Concepts graduate/research school

- **Norway:** The Norwegian Association of Higher Education Institutions characteristics of a research school:
  - Strong research environments for doctoral education organized around a **specific discipline** or research **focus/theme**
  - An organized unity of a **certain size** with a **well defined management**
  - A **scientific program** w/ courses and seminars
  - Focus on supervision and **supervision processes**
  - High international scientific level
  - **Collaboration** w/ international research environments and other **HEI**, w/ univ as host institution
  - **Critical mass:** A minimum access of **5 new PhD-students** pr year

(UHR, Forskerskoler i Norge? 2003)



## Models graduate/research schools

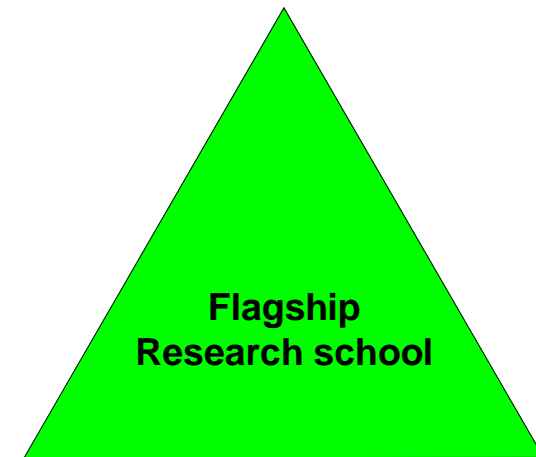
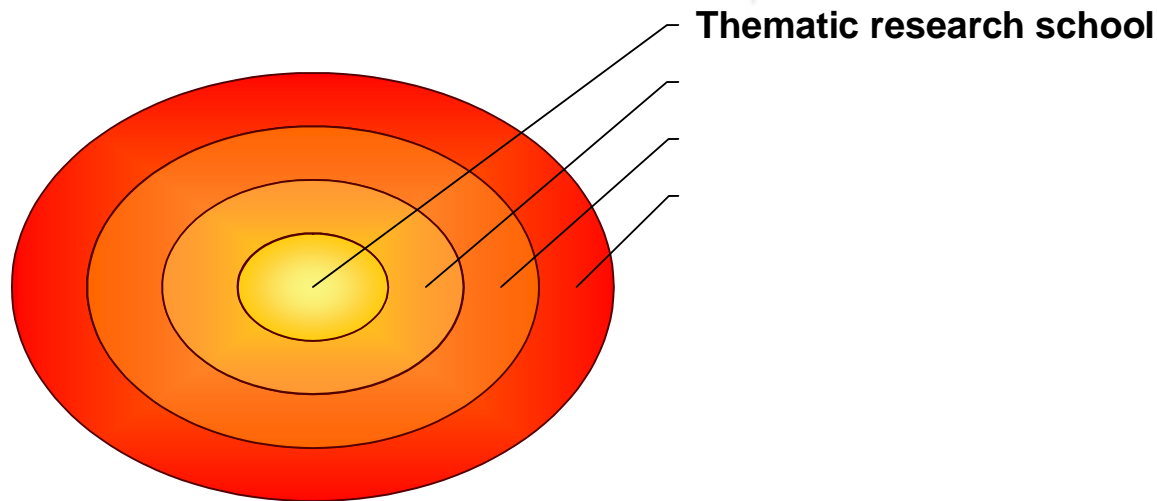
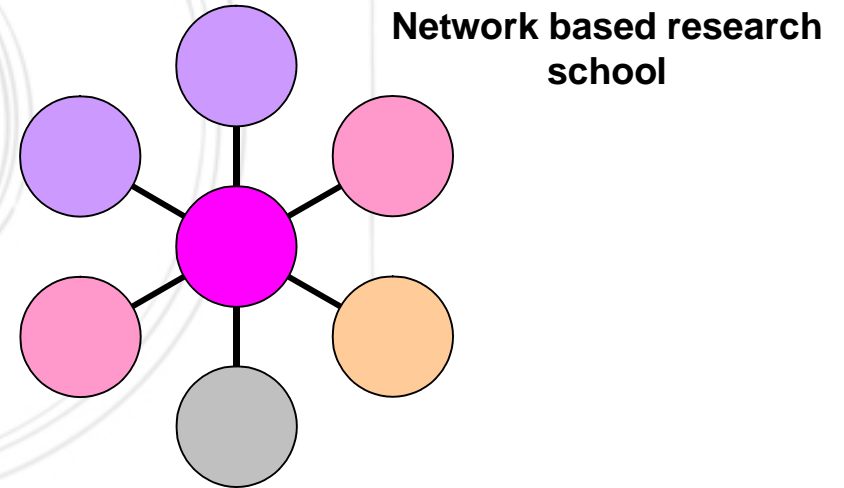
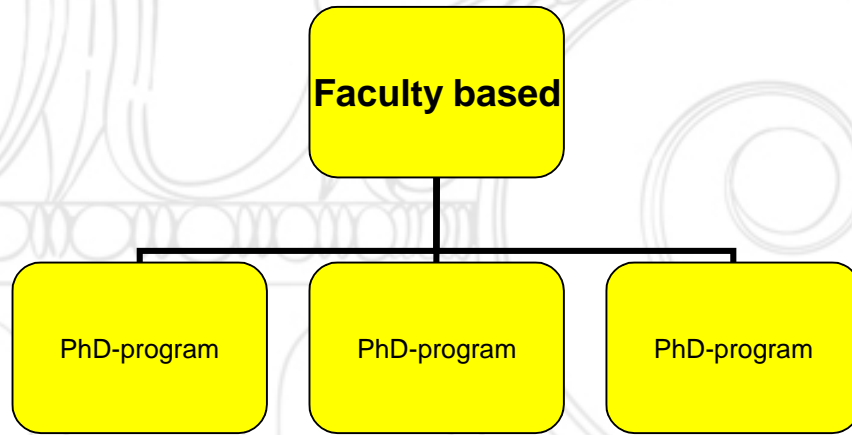
- EUA Bologna Seminar on Doctoral Programmes, Nice 2006: Two main models of organizational structures:
  1. Structures including master & doctoral candidates & providing crosscutting administrative training and development support
  2. Structures including doctoral candidates only, around a research theme or a cross-disciplinary area & possibly including several institutions
- Scandinavia: implementation of graduate schools/research schools: a **variety of models, but mainly with structure of # 2**



## Models graduate/research school

- Graduate school as we know it from USA and UK not the same in Scandinavia
- **Research school**, focus on research and research training
- No clear cut models!
- Models are overlapping, mixed and with "fuzzy edges"

# Models research school in Scandinavia



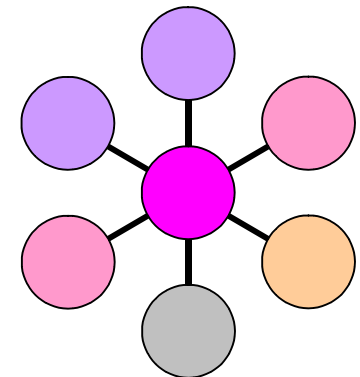


# Models research school in Scandinavia

- Network based
  - Combining research activities within several institutions
  - national, international
- Flagship model
  - Mainly in one institution, organized around strong research groups and a large group of PhD-students
- Thematic research schools
  - Thematic focus, disciplinary, interdisciplinary
- Faculty based
  - Overarching graduate/research school, including all PhD-programmes within a Faculty, offers structure and courses, seminars to all PhD-students regardless of PhD-programme. Ensures educational quality standards

## Models by cases: network based research school

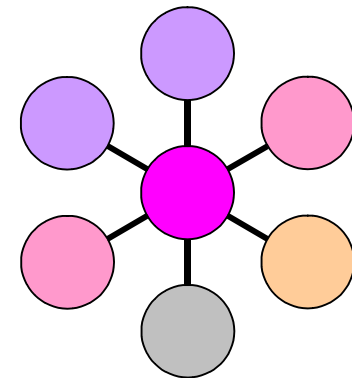
- Network based
  - Combining research activities within several institutions (national, international)
  - Relation to non-academic institutions: industry, hospitals, cultural institutions etc..
  - Interdisciplinary
  - Disciplinary
  - National research school





# National research schools

- Denmark
  - A public good PhD in Denmark 2006: A National PhD Agenda
  - National funding of research schools, some of which were national research schools
- Sweden
  - 16 research schools funded through Swedish Foundation for Strategic Research (SFSR)
  - Evaluation of research schools SFSR, 2000
  - National follow up 2004
  - Stronger funding of research and innovation in doctoral training: 100 mill kr: 10 research schools 2007
- Norway
  - Norwegian research council, proposition 2005
  - Proposition about a strengthened doctoral training 2008
  - Call for applications, NRC 2008





# National Research Training Programme - Text, Image, Sound, and Space

- The faculties of arts and the humanities
  - University of Bergen
  - University of Tromsø
  - Agder University College
  - NTNU
- Aim: national coordinator, cooperating internationally, and establishing academic groups and networks for the research training
- Establish cooperation with other institutions within art and culture to inspire doctoral projects and strengthen the ties between academia and society
- Cooperation w/ research school Copenhagen University: Copenhagen doctoral school in cultural studies





## Nordic networks of national research schools

- NordForsk grants funding for **networks of national research schools**.
  - facilitate cooperation
  - strengthen the mutual exchange of ideas and competencies, mobility, and the Nordic region as a common area for research training
  - national courses are open to PhD students in the Nordic and Baltic countries as well as North-West Russia.
  - aim: To support the various national and local doctoral programmes by creating larger scholarly environments and broader networks between the departments
- PhD courses, guest professors from non-Nordic countries, supervisor meetings

# Nordic Network of Astrobiology Graduate Schools

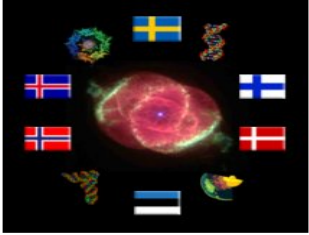
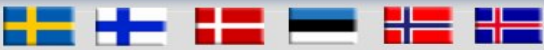


Home - Microsoft Internet Explorer

Address <http://www.nordicastrobiology.net/>

## Nordic Network of Astrobiology Graduate Schools

Towards a Nordic Research and Education Area in Astrobiology



- Home
- Institutions + People
- Courses
- Events
- Links
- Apply for funding

### Aims of the Network

The Nordic Network of Astrobiology Graduate Schools aims to

- create a Nordic Research and Education area in Astrobiology
- provide [funding](#) for Nordic students to attend Astrobiology [courses](#) at other universities in the Nordic Countries
- [fund travels](#) of Nordic Scientists to teach Astrobiology at other Nordic Institutions
- organise [events](#) for young astrobiologists
- collaborate with other astrobiology institutions
- worldwide in order to achieve these aims

### Funding and duration

Funding for the Network has been secured by the Nordic Council of Ministers under the [NordForsk](#) scheme for 2007-2010 with a total amount of NOK 1 200 000,- for different networking activities. 7 different institutions from 6 Nordic and Baltic Countries participate in the Network. Please check the respective links for Network [events](#) and [funding](#) possibilities.

### Contact

For all enquiries concerning the Network please contact the Network coordinator, [Wolf D. Geppert](#), Stockholm University, tel. ++46-8-55378649, Fax ++46-8-55378601

- Stockholm University
- University of Turku
- University of Bergen
- Aarhus University
- University of Copenhagen
- University of Tartu
- University of Iceland
- University of Hawaii

- Common resource: courses
- Stockholm: Astrobiology Graduate School
- Bergen: Research school in Geobiology and Earth System Science
- Centre of excellence in geobiosphere
- Turku: Finnish meteorological institute

# The Georg Brandes School



The Georg Brandes School  
International PhD School  
for Scandinavian Literature, Scandinavian Art, and Scandinavian Linguistics

| In Danish | SEARCH

The Georg Brandes School

- Courses
- The PhD School
- PhD Students
- Positions and PhD Fellowships
- GBS Forms
- Contact
- GBS Blog

**The Georg Brandes School**  
International PhD School for Scandinavian Literature,  
Scandinavian Art and Scandinavian Linguistics  
Affiliated to the Department of Scandinavian Studies and Linguistics  
University of Copenhagen

!! Notice that this webpage only contains sections of the Danish website. If you have difficulties finding the information you need please try the Danish website

**Council Meeting, 2008**  
This years Council Meeting takes place June 6-7. Friday, June 6: 1.15-5.00pm with a following joined dinner. Saturday, June 7: 10.00am-1.15pm in Auditorium 22.0.11, Building 22, Ground floor, room 11.

**Agenda:**  
**Friday June 6, 2008**  
1.15-1.30pm: Welcome  
1.30-2.15pm: Annual Report  
2.15-2.45pm: Accounts and Budget  
2.45-3.00pm: Coffee Break  
3.00-3.30pm: PhD Lecture  
3.30-4.15pm: Presentations from two associated departments by Dr. Ieva Steponavičiute, Vilnius University and Professor Petter Aaslestad, NTNU, Trondheim, Norway  
4.15-4.45pm: Election to the Board of the PhD School and the Course Committee  
4.45-5.00pm: A.o.b.  
6.00pm: Dinner  
**Lørdag 7. juni 2008**  
10.00-10.30am: PhD Lecture  
10.30-11.15am: Presentations from two associated departments  
11.15-11.30am: Coffee Break  
11.30-12.15: Presentation of: *Cultural History of*

The Georg Brandes School  
University of Copenhagen  
Njalsgade 120, Copenhagen S

Contact:  
Stine Møller Jørgensen  
gb@hum.ku.dk  
Phone: +45 35 32 83 41

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Primary object:  
Courses for PhD-students

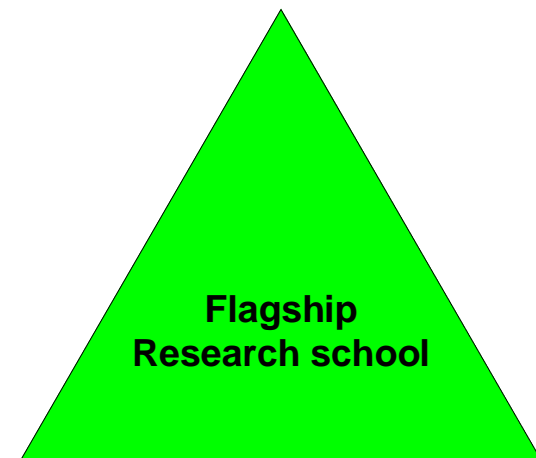
Cooperative partners:  
6 univ in Denmark  
20 univ outside Denmark

Cultural institutions:  
The Danish National Gallery  
The Royal Library  
Danish museum of decorative art  
Management: all coop. partners represented



## Models by cases: flagship model research school

- Flagship model
  - Mainly in one institution, organized around strong research groups and a large group of PhD-students
  - Disciplinary, interdisciplinary



# CIH Research school: a flagship model



Centre for International Health, University of Bergen, Norway - Microsoft Internet Explorer

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Address <http://www.ch.uib.no/index.php?valg=sql&id=96> Go

UiB Centre for International Health

Home CIH Research School Research Training Information Staff The Centre

Keyword search:

Find student:

Find employee:

Log in

## CIH Research School

[CIH Research School](#)

[Information about the PhD programme](#)

[Research School seminars](#)

[PhD Courses](#)

[tropEd Courses](#)

[PhD candidates at CIH](#)

[PhD Registry at UoB](#)

[Bora](#)

### Welcome to the Research School in International Health at University of Bergen

The Research School started in September 2004 and offers a program based on a flexible yearly cycle.

The PhD training at the Centre for International Health is an integral part of the doctoral training at the different faculties. The Research school shall supplement the research training, and also be part of activities to promote the quality and efficiency in the doctoral training programmes.



The research groups are the main "anchors" for the PhD-students. The research school shall take good care of and develop a supportive attitude towards the research students, and help foster sound scientific development through close cooperation between teacher and student, with a particular focus on supervision.

The Learning Objectives for a PhD at CIH can be downloaded from [here](#).

The Director of the Research School is Professor [Bernt Lindtjørn](#).

Updated 16-01-2008 15:04:11

© 2007 Centre for International Health  
Address: Centre for International Health, Faculty of Medicine  
P.O. Box 7804, N-5020 Bergen, Norway  
Phone: + 47 55 97 49 80, Fax: +47 55 97 49 79

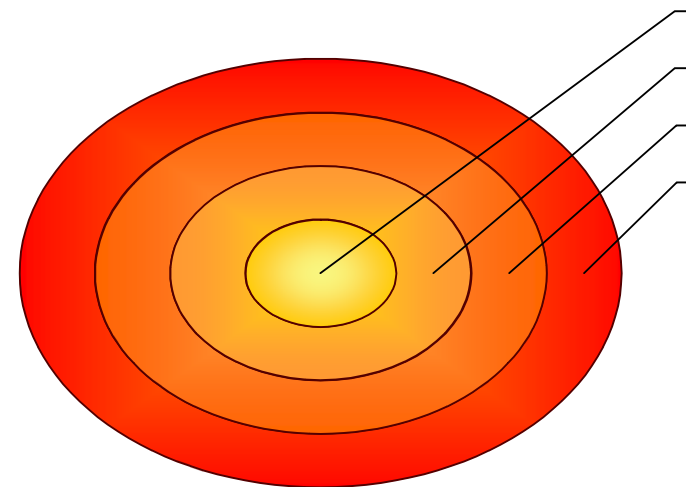
 

System development: H.O.

- Strong thematic focus
- Research school w/ Integration of Master and PhD
- Large group of students:
  - Around 100 master and PhD-Students at all times
- Many guest professors and short-time students (m&p)

## Models by cases: thematic based research school

- Thematic research schools
  - Thematic focus
  - Disciplinary and/or interdisciplinary



# Uppsala Graduate School in Biomedicine



The screenshot shows a Microsoft Internet Explorer browser window displaying the website for the Uppsala Graduate School in Biomedical Research (UGSBR). The browser's address bar shows the URL <http://www.bmc.uu.se/en/node126>. The website header includes the Uppsala University logo and the text 'Uppsala Graduate School in Biomedical Research'. A navigation menu is visible with links for 'About BMC', 'Research & Development', 'Education', 'Common facilities', 'Service', 'Calendar', and 'UGSBR'. Below the menu, there are links for 'Contact', 'General Information', 'Curriculum', 'Project Catalogue', 'Students', and 'Application'. The main content area is titled 'UGSBR ORGANISATION' and contains the following text:

Uppsala Graduate School in Biomedical Research (UGSBR) is one of originally six local biomedical preparatory research schools initiated through support by the [Foundation for Strategic Research \(SSF\)](#). The preparatory research school in Uppsala is based on a collaboration between the Faculties of Medicine, Pharmacy and Natural Sciences at Uppsala University and the Faculties of Veterinary Medicine and Animal Science and Natural Resources and Agricultural Sciences at the Swedish University of Agricultural Sciences. A superstructural team-work engaging different faculties involved in bioscience is used to give students on their way into research education a broader scientific platform. This is expected to increase the competence and scientific strength of the next generation of Swedish biomedical scientists.

Students within UGSBR are entitled to a scholarship during the second semester of the preparatory year. The monthly amount approximately equals a Swedish Student Loan.

**SYLLABUS**

UGSBR is an all-embracing, preparatory year extending undergraduate university education with research experience. The objective of UGSBR is to give potential graduate students:

- connections with scientists which can serve as supervisors during a subsequent graduate training program
- practical experience of some research projects and a broad insight into several prior to the final selection of a graduate project

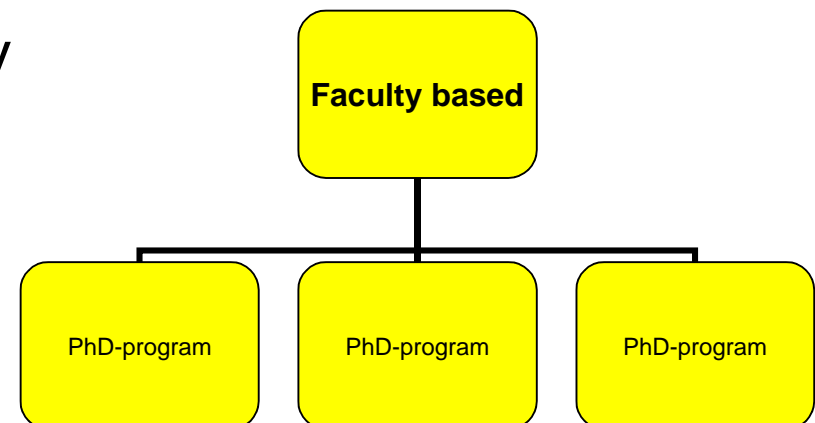
On the right side of the screenshot, there is a white box containing the following text:

**Cross-disciplinary:**  
Medicine  
Biology  
Pharmacy  
Chemistry  
Veterinary science

**Network:**  
Swedish University of Agricultural Science  
Ludvig Institute For Cancer Research

## Models by cases: faculty based research school

- Faculty based
  - Overarching graduate school, including all PhD-programmes within a Faculty
  - Offers structure and courses, seminars to all PhD-students regardless of PhD-programme
  - Ensures educational quality standards



# Århus University: PhD school of Faculty of Science




Faculty of Science, University of Aarhus: PhD studies - Microsoft Internet Explorer

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Address <http://www.nat.au.dk/default.asp?id=82&ja=UK> Go



## Faculty of Science

AARHUS UNIVERSITET

PÅ DANSK

**Studies**

- Masters degree programmes
- PhD studies**
  - Call for applications
  - Applicant's Guide
  - General information
  - Rules and regulations
  - PhD courses
  - PhD student Union
  - Teaching

**INFORMATION FOR**

- Science Studies
- Information for students
- Information for employees

YOUR POSITION: [Main Page](#) / [Studies](#) / [PhD studies](#)

### WELCOME TO AGSOS

Aarhus Graduate School of Science is a new-established PhD school for the entire Faculty of Science.

We have just closed our general call for application. Our next call opens on 1 July (changed from 15 June due to technical problems)with application deadline 1 August 2008. We will announce the call here later.

#### NEWS

If you apply for PhD studies on the basis of a bachelor's as a special honours Master's study aimed specifically at

Due to the new organisation with AGSoS as Faculty of S revision. If you are missing information please do not hes

**Head of school:**  
Mogens Nielsen, [mn@science.au.dk](mailto:mn@science.au.dk)

**Secretariat:**  
Bente Mattsson, [bm@science.au.dk](mailto:bm@science.au.dk)  
Lene Kjeldsteen, [lk@science.au.dk](mailto:lk@science.au.dk)  
Lene Rønnow, [lr@science.au.dk](mailto:lr@science.au.dk)

Faculty PhD-programmes  
Admitted to PhD-fields:  
Applied Mathematics  
Astronomy  
Bioinformatics  
Adm.affiliated to Departments:  
Dep. Of Math Sciences  
Dep. Of Physics and Astronomy



## Possible future landscape of research schools

- Success depends upon
  - connection between research and doctoral training; link to research groups, center of excellence
  - aim
  - strong management/leadership
  - funding
- Political landscape: national objectives of doctoral education
- University politics in Scandinavia: smaller colleges and doctoral education



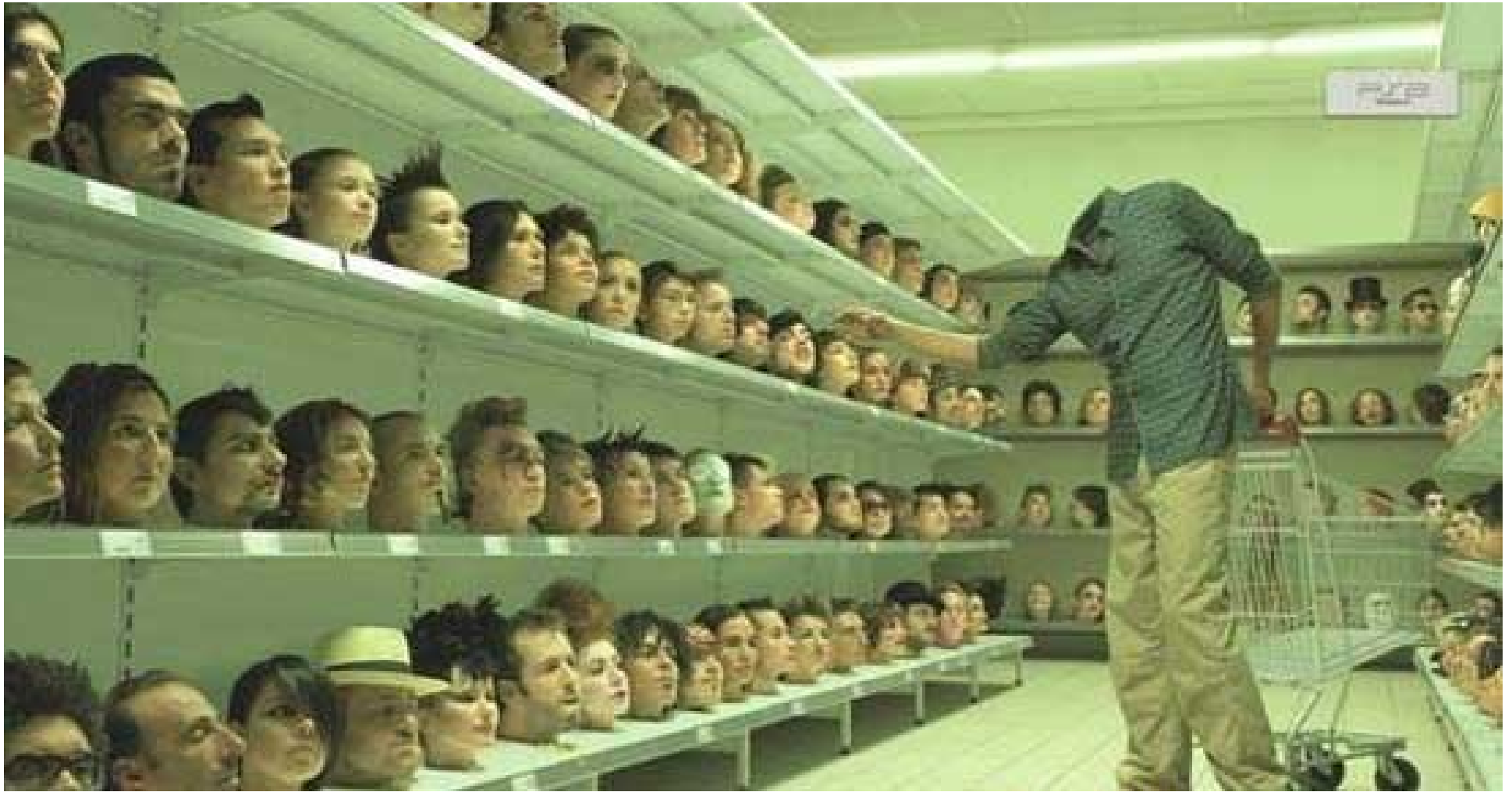
## Common challenges in Scandinavian research schools

- Critical mass; research groups are small and scattered in various institutions
- Stronger organisational attachment to universities
- More interdisciplinarity
- Solid funding of research schools
- Realization of research schools (some are more paper tigers than reality)
- A strengthening of leadership and management of research schools



## Possible future landscape of doctoral education

- Structural doctoral education is here to stay!
- Competence building for:
  - Knowledge based Scandinavia and Europe; collaboration research and doctoral training: Network research schools, national and international research schools
  - Global responsibility – doctoral education and research collaboration: competence building



Thank you!