



# Focus on Food and Biomaterials

Research school at NJ-faculty



<https://www.slu.se/en/graduate-schools/focus-on-food-and-biomaterials/>



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*Approximately 25-30 PhD students*

Department of Molecular Sciences

Department of Economy

Department of Plant breeding

Department of Animal Nutrition and Management ?

# Objectives of the research school

- Offer high quality educational activities
- Develop and open networks in academia and society within food and biomaterials-related areas



## **Benetifs:**

Better orientation on what is going on within food and biomaterial science; seminars with external speakers; possibility to design and run special courses; facilitated PhD-student mobility; more interactions with companies and external bodies

# Ongoing and accomplished activities

- Seminars and workshop
  - Intellectual property and project management
  - How to become a postdoc
- Courses for PhD students and postdoctoral researchers
  - Bioactive compounds in food and feed
  - Lipids in evolution and analysis
  - Fronties in -omics
  - Scientific writing within molecular sciences
  - To communicate science
- Study visit



# Study visit to Japan



- How Japan sustainably use limited resources to feed the whole country?
- How they adopt to climate change and mitigate its impact on food production system?
- What are the recent advances in food science research and technology in Japan?



Sveriges lantbruksuniversitet  
Swedish University of Agricultural Sciences

Education Research Environment Collaboration

[startpage.slu.jp](http://startpage.slu.jp) / Japan study trip

SLU news

## Study trip gives new insights in Japanese food research and industry

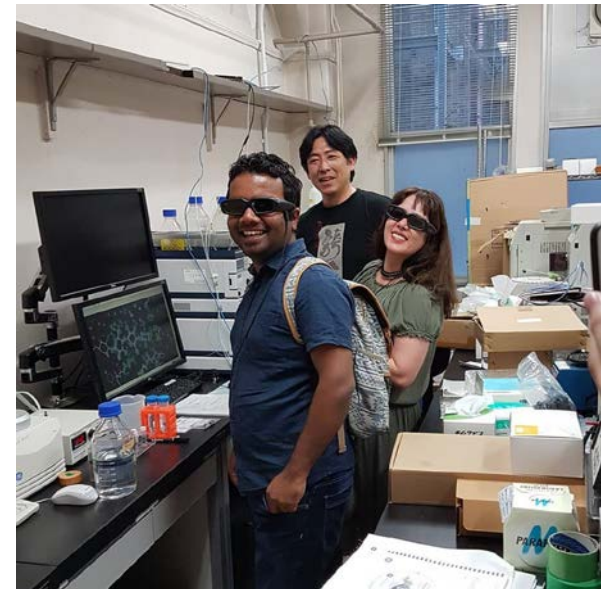
PUBLISHED: 21 MAY 2018

In May 2018, PhD students from the research school "Focus on food and biomaterials" at SLU visited Japan. The purpose of the visit was to gain knowledge on food research and industry in Japan, as well as on Japanese traditional food culture and novel trends in the Japanese food and beverage market.

Hasitha Priyashantha, PhD student from the Department of Molecular sciences at SLU, was the main organizer of the study visit.

– This six-day visit was a great opportunity for PhD students from SLU to experience a different food culture and explore possible reasons behinds their healthy and long life, says Hasitha.

– Moreover, it is important to increase visibility of research and education within food and biomaterial science at SLU on the international arena, continues Hasitha.





# Mobility grants

- Financial support for PhD-students for attending external courses and for training in international and national laboratories outside of SLU
- 5-6 PhD students/academic year, max 10 000 SEK



The Graduate School  
VLAG

WAGENINGEN  
UNIVERSITY & RESEARCH

AARHUS UNIVERSITY

I FOOD CENTRE FOR  
INNOVATIVE FOOD RESEARCH

**Masterclass**  
**“Dairy Protein Biochemistry”**  
2-3 July 2018, Wageningen, The Netherlands

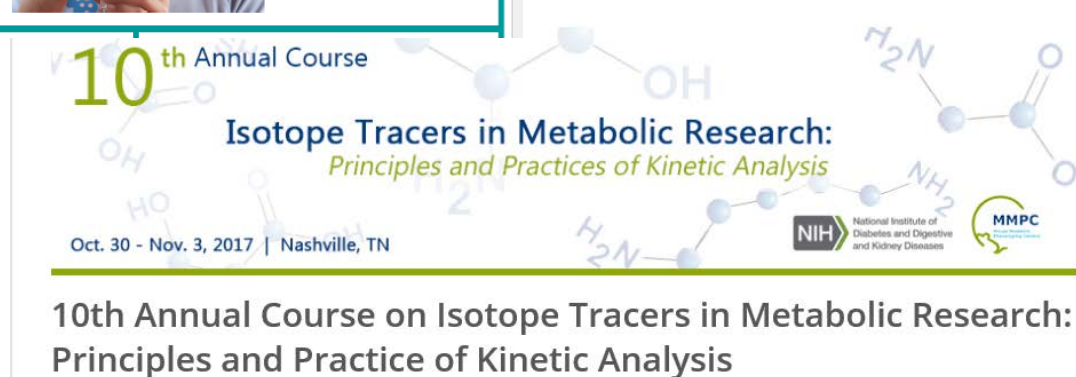


The Graduate School  
VLAG

**Summer Course**  
**Glycosciences**

**15<sup>th</sup> European Training Course on Carbohydrates**  
Wageningen, The Netherlands, 24 – 28 June 2018

GBB



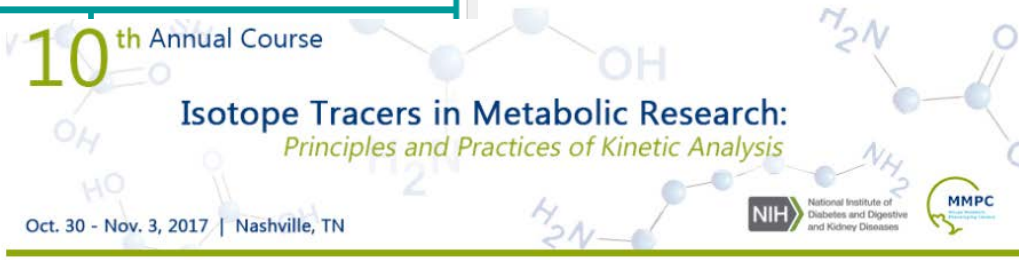
**10<sup>th</sup> Annual Course**  
**Isotope Tracers in Metabolic Research:**  
*Principles and Practices of Kinetic Analysis*

Oct. 30 - Nov. 3, 2017 | Nashville, TN

NIH National Institute of  
Diabetes and Digestive  
and Kidney Diseases

MMPC

**10th Annual Course on Isotope Tracers in Metabolic Research:  
Principles and Practice of Kinetic Analysis**



# Planned activities

- Seminars and workshops
  - "Food day" (Matdagen i Stockholm)
- Study visit in 2020
- Courses for PhD students and postdoctoral researchers
  - Rheology and microscopy in foods and biomaterials
  - Innovative proteins
  - Advances in enzyme regulation (NOVEMBER 2018!)
  - Biomaterials at nanoscale (OCTOBER 2018!)
  - Chemistry and biology of cellulose
  - Practical NMR course in structural analysis
  - Multivariate statistics and experimental design

# Homepage

## Focus on Food and Biomaterials

We offer a wide range of activities ranging from very specialized in depth courses to training opportunities for general skills such as presenting research and critically evaluate others results.



## A research school for food scientists and molecular scientists

We customize our activities for the PhD-students that are currently members and newly recruited PhD-students in order to offer you educational activities of high quality. Joining us also means that you will extend your collaboration networks within and outside SLU.

[Join us](#)





# Research school LiFT



Future Technologies for Food Production  
(Livsmedelsproduktion med Framtidens Teknologier)



Food Science Sweden

Chalmers | LTH | RISE | SLU | OrU

## LiFT

- The overall goal of LiFT is to strengthen the Swedish food industry competitiveness by providing it with highly trained doctors with high scientific competence ...and to train multi-disciplinary high-level researchers for universities, research institutes, and international organizations

Kontaktpersons:

Marie Alminger, Chalmers

Galia Zamaratskaia, SLU

Margareta Nyman, LTH

Andreas Håkansson, LTH

Örebro



Support from and close collaboration with The Swedish Food Federation (Livsmedelsföretagen)

## Activities:

- **Courses och mobility support**
- Obligatory block with industry orientation:
  - Livsmedelsaktörer i Sverige / **Food Operators in Sweden (3 hp)**
  - Livsmedelsetik och lagstiftning/ **Food Ethics and Legislation (2 hp)**
  - Innovationsstrategi, entreprenörskap och projektplanering/**Innovation strategy, Entrepreneurship and Project management (3 hp)**

### Other:

- Multivariate data analyses and experimental design
- VLAG-courses - Advanced studies in Food technology, Agrobiotechnology, Nutrition and health Sciences (Univ. i Wageningen och Maastricht + 5 forskningsinst. i Holland)
- NuGO - Molecular & personalized nutrition, nutrigenomics... ( 28 Univ. & FoU-inst. )
- **Study visits**



VLAG, Holland, 2012



Danone, Frankrike, 2014




COFCO, Kina, 2017

# Homepage

## Food Science Sweden


Chalmers | LTH | RISE | SLU | OrU




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[About LiFT](#) [Industrial Relevance](#) [Scientific Excellence](#) [Admission](#) [New information](#)

**LiFT aims at maintaining and developing a doctoral education that meets the requirements of market and society**



### LiFT Graduate School



The Graduate School LiFT (Future Technologies for Food production) is a national education and research network in food sciences. The overall goal of the graduate school is to strengthen the competitiveness of the Swedish food industry by providing highly trained PhDs with high scientific competence in areas of importance for the Swedish society and industry. The graduate school started in 1997 and is currently a joint initiative between SLU, Chalmers, LTH, RISE and OrU.

**What makes LiFT unique?**

- Active interaction between graduate school and industry
- A joint national platform for graduate education, which creates synergies in education across existing Swedish research environments.
- A joint national platform for graduate education, which increases the interaction between existing strong research environments
- A national eraduate education. which gives the PhD students an

### Highlights

[News archive →](#)

**Food Science Sweden Conference 2018**

Food Science Sweden is welcoming you to our yearly conference at Örebro University, 21 Nov 2018! This year, the theme of the conference is Food and Inflammation. Welcome with your registration and abstract before 5 Nov 2018!

**Nytt nyhetsbrev från [nutritionsfakta.se](http://nutritionsfakta.se)**

Om att försöka kontrollera sin vikt vid svår fetma, bra mat för hälsa och inbjudan till konferens om allergi! Läs mer och prenumerera här!

**Food for the whole world population – what novel food science research and technology is required?**

Welcome to an important seminar at IVA! How can we

**Follow us:** [News archive →](#)



We hope you will be a member  
of both schools!

📍 MOUNT FUJI (富士山)

📍 YAMANASHI PREFECTURE

