



Stockholm
Life SOLNA
STOCKHOLM

A view from the regional level in Sweden

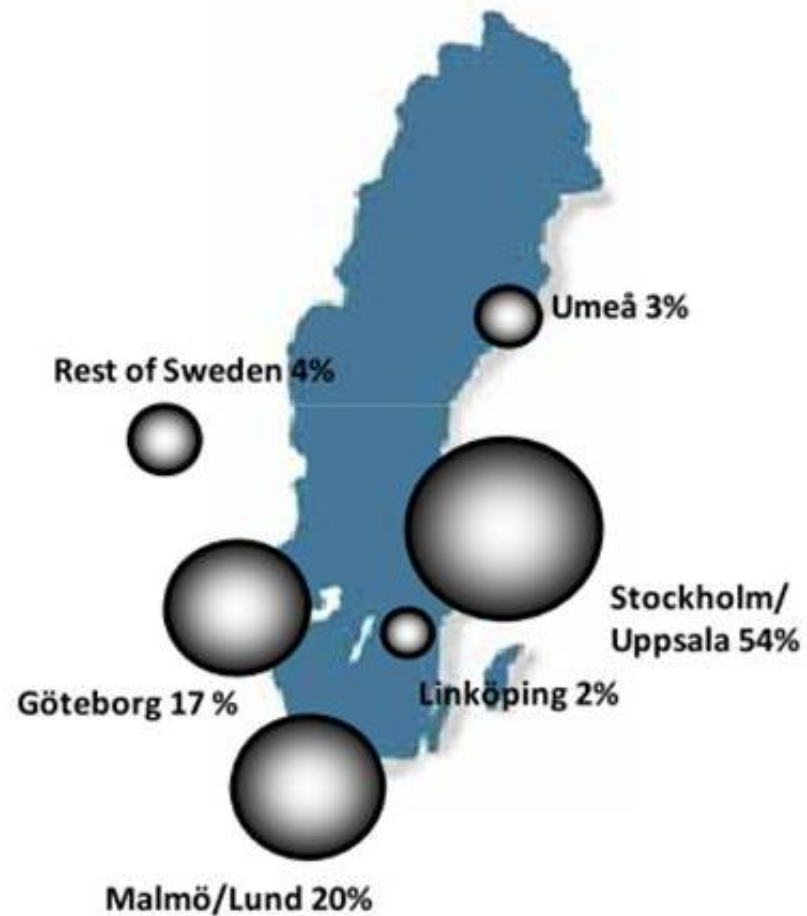
Ylva Williams, CEO of Stockholm Science City Foundation

August 25 2010

How can regions learn to benefit from knowledge dynamics within life science?

- **20 per cent of Sweden's net export = life science**
- **More than 800 life science companies**
- **Over 40 000 employees**

Life Science regions in Sweden



The Life Science Cluster



Stockholm Science City

To Arlanda
Airport

Stockholm
University

Karolinska
Institutet

The Royal Institute
of Technology (KTH)

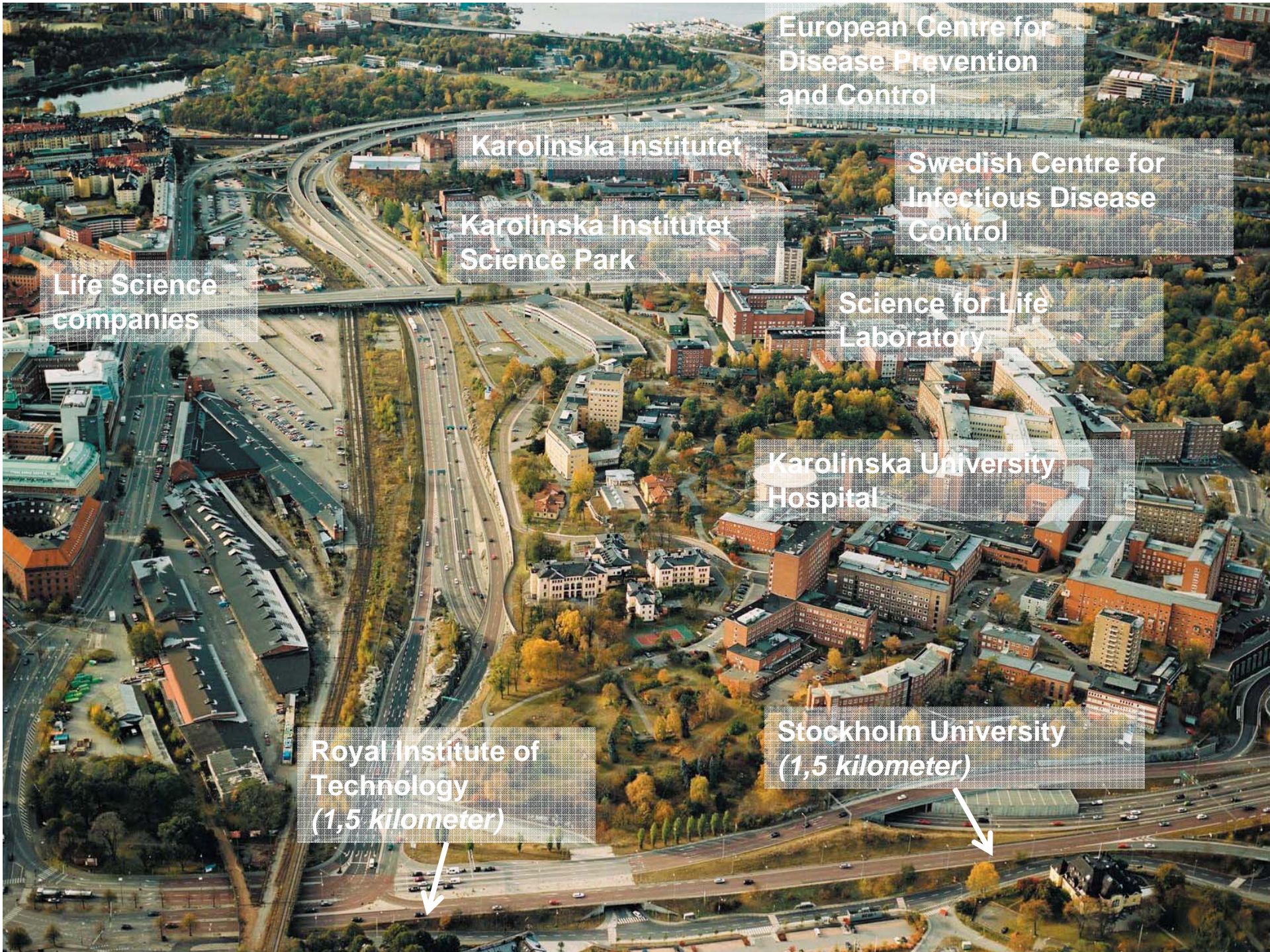
The City Centre
of Stockholm

The Central
Station

To
Stockholm/Skavsta
Airport

- 70 000 students
- 6 000-7 000 researcher





European Centre for Disease Prevention and Control

Karolinska Institutet

Swedish Centre for Infectious Disease Control

Karolinska Institutet Science Park

Life Science companies

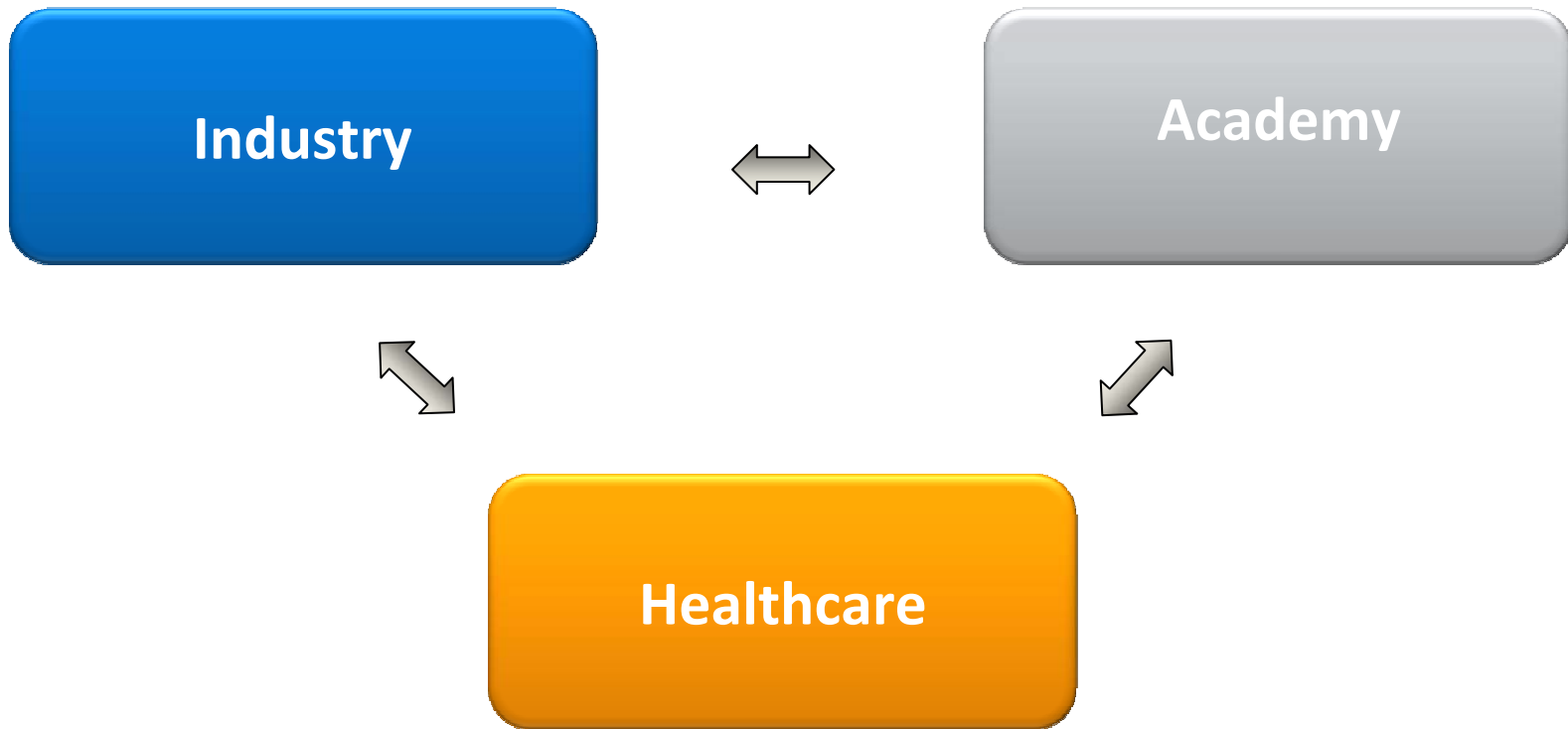
Science for Life Laboratory

Karolinska University Hospital

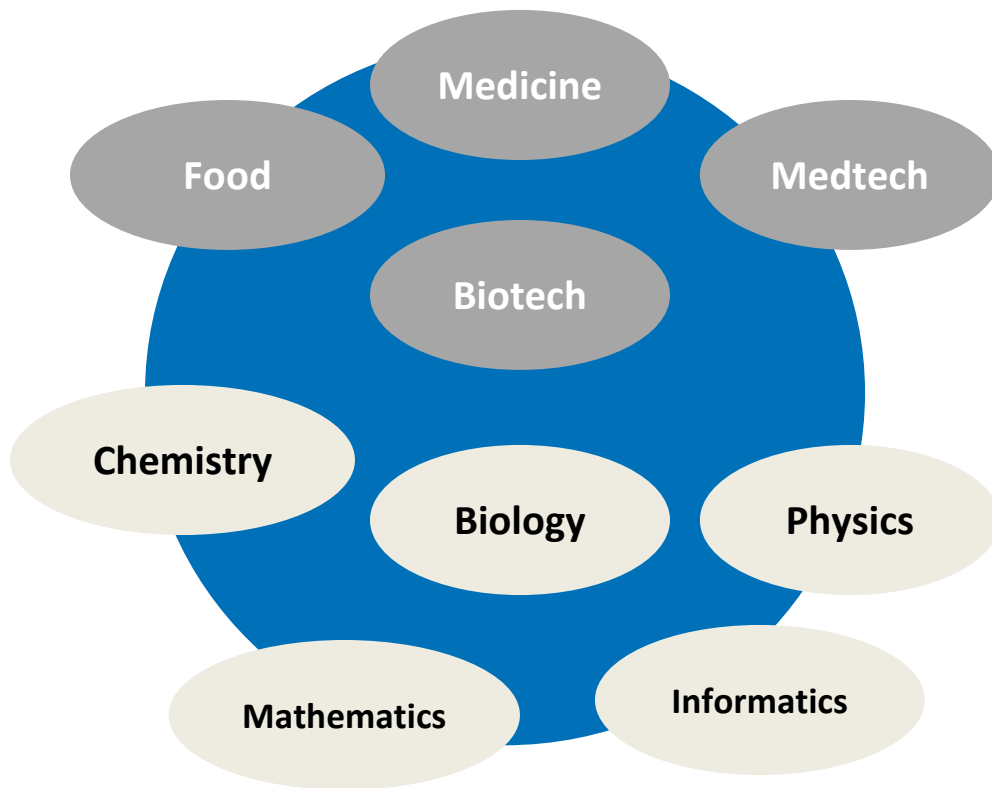
Royal Institute of Technology (1,5 kilometer)

Stockholm University (1,5 kilometer)

The triple helix



Life Science – an overview



**Develop
understanding of
life and health**

Stockholm Science City foundation function as a base camp for the mountaineers.

We *facilitate cooperation*, gather information and create the best preconditions for researchers, the industry as well as society to reach the top.





Stockholm Science City organization

Owners:

- Karolinska Institutet
 - KTH Royal Institute of Technology
 - Stockholm University
 - City of Stockholm
 - City of Solna
 - Stockholm County Council
- **Chairman of the Board is Per Unckel, County Governor**
 - **Scientific Council**
 - **Business Council**

Stockholm Life Solna Stockholm

The image features a dark blue background with a large, white, stylized graphic on the left side. This graphic consists of several overlapping, rounded shapes that resemble a stylized letter 'S' or a series of connected loops. The text 'Stockholm Life' is positioned in the center-right area, with 'Stockholm' in white and 'Life' in yellow. To the right of 'Life', the words 'SOLNA' and 'STOCKHOLM' are stacked vertically in white, uppercase letters.

Stockholm
Life SOLNA
STOCKHOLM

Vision 2025

- A world leading area for life science
- A society with a mix of academia, industry, hospitals, residential areas, culture, service and recreation
- World-class knowledge center for life science



Knowledge dynamics – examples from the region



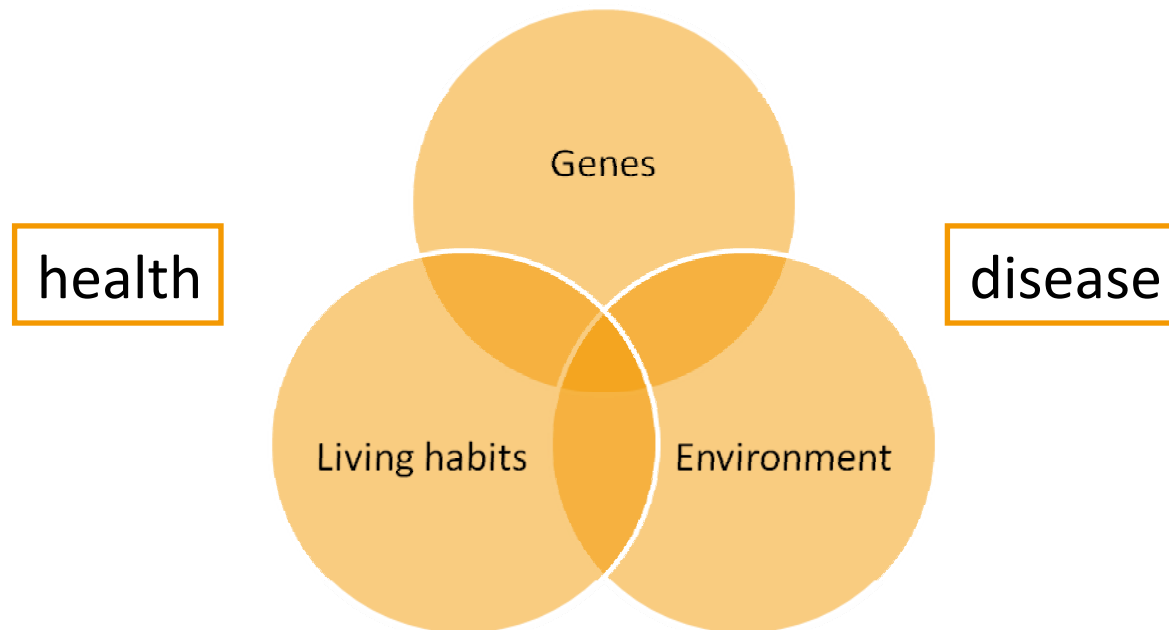
Stockholm School of Entrepreneurship (SSES)

- Joint school devoted to offering their students education, training and inspiration in applied entrepreneurship
 - The Royal Institute of Technology
 - Stockholm School of Economics
 - Karolinska Institutet
 - Stockholm University
 - University College of Arts, Craft and Design



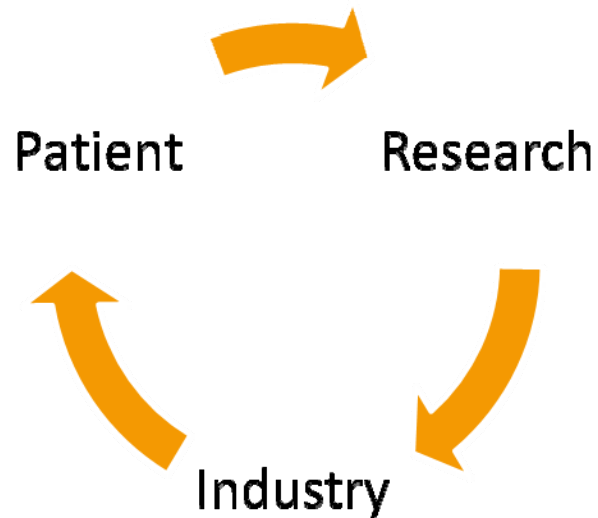
Konstfack
University College of
Arts, Crafts and Design

- National health study to investigate public health conditions
- ½ a million Swedes age 0-45
- Unique Swedish research collaboration between all medical faculties in Sweden hosted by Karolinska Institutet



COMBINE

- Controlling chronic inflammatory diseases with combined efforts
- Network of scientists, clinicians, patients and industrial partners





Genetic programming

Neural circuits

Cognitive functions

Neurobiology

Imaging

Psychology


- Joint effort between
 - The Swedish Association of Hard of Hearing People
 - The Royal Institute of Technology
 - Karolinska Institutet
 - Stockholm Science City
- Hearing Link aims to become the leading platform within technical assistance to communication for both the hearing impaired and the hearing
- Web based hearing test:
<http://www.horselbron.se/hearingtest/>

***A web platform with
information about services and
resources within life science***

- Covers both business and academia
- Covers the entire value chain




Tuesday, 20. October 2009 MAIL IMPRINT





A Joint Knowledge Infrastructure



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Tools of Science - a tool for drug developers and life science researchers

Get access to information about research excellence and advanced technologies along the entire value chain in life science in Sweden!

Tools of Science provides researchers from academia and industry with information about service companies, core facilities, technologies, competence and collaboration partners along the entire value chain within life science and drug development.

- [KIGene has invested in a new TaqMan® OpenArray® genotyping system](#)
KIGene has acquired a new system for SNP analysis. The TaqMan® OpenArray® genotyping system provides PCR-based SNP analysis in a medium- to high-throughput format. OpenArray technology uses proven TaqMan® Genotyping Assay chemistry and nanoliter fluidics. [Read more here.](#)
- [Get inspired at "The virtual pharmaceutical company".](#)
- [Join next year's "Research and Health" event in Kungsträdgården! A successful event, read more here.](#)

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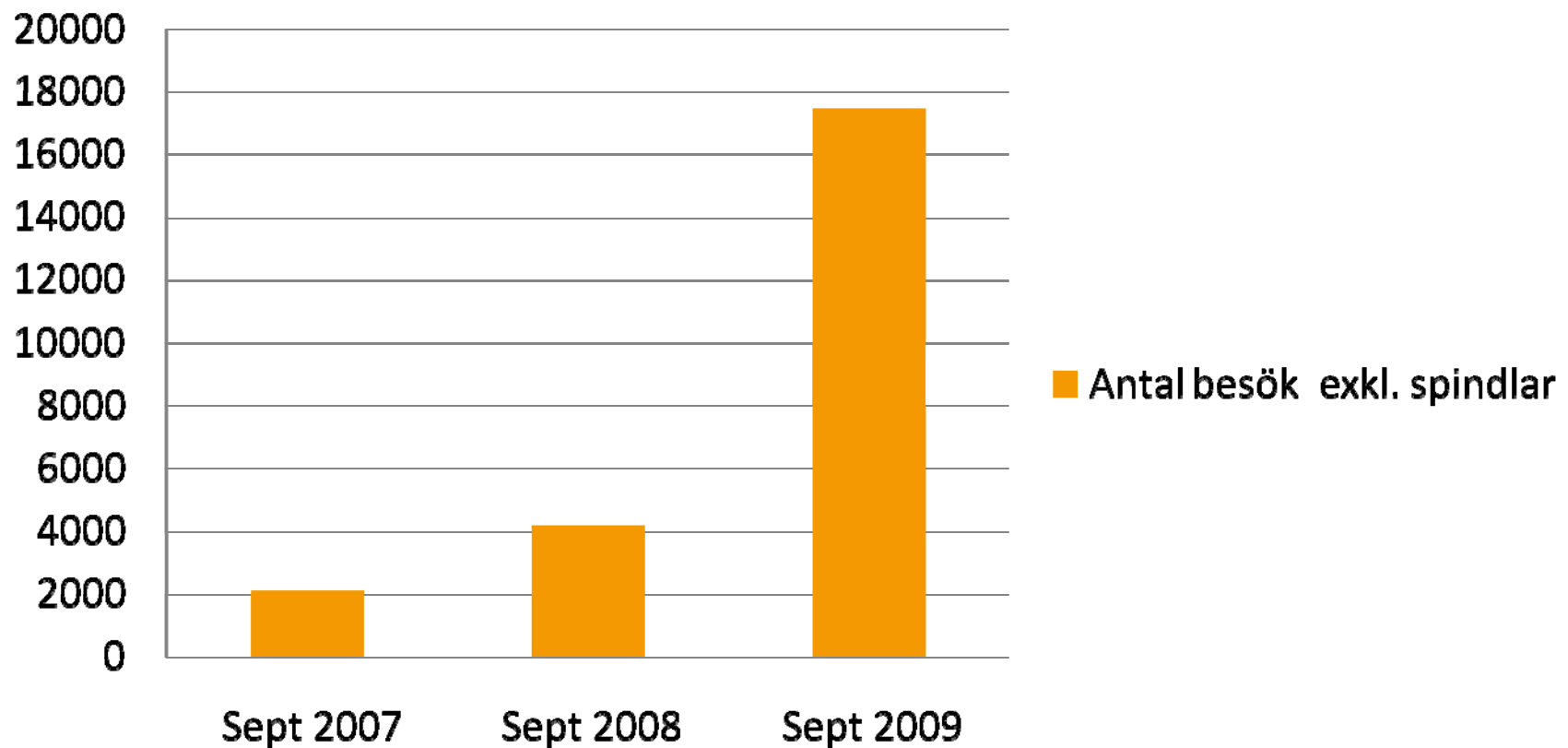
CMB Microscope Facility, CMB Microscope Facilit...



The CMB Microscope Facility has five fluorescence microscopes for fixed tissues and live cell imaging. The microscope can be used by internal (CMB)...

[» more](#)

Number of visits excl. web spiders



- National resource center dedicated to large-scale research in molecular biosciences and medicine
- Analysis of genomes, proteomes, cells, bioinformatics, statistics and systems biology
- Collaboration between
 - The Royal Institute of Technology
 - Karolinska University
 - Stockholm University
- Node in Uppsala which is hosted and organized by Uppsala University
- Role for research, healthcare and industry

5 keys to success

- Critical mass
- Shared resources
- Specialists to collaborate cross-disciplinary
- People bridging the gap between academia and industry
- Mobility of people

Thanks for your attention!
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