



The Baltic Sea Region  
Green . Bio . Health . Valleys



## **Eco4Life Study Tour SOUTH SWEDEN**

**Baltic Diabetes Initiative**

**Baltic Green Hospital**

**GxP business incubator**

**Malmö & Lund**

24th – 28th September 2012

Organized by Lead Partner

**BioCon Valley®**

# PROGRAM

Study tour 24th – 28th September 2012

**Monday, 24<sup>th</sup> September 2012**

**Diabetes, Biodatabank Cancer, GxP business incubator LIFE SCIENCE**

9.30

## **Invest in Skåne AB**

Dockplatsen 26, Malmö *or* Lund office

Welcome to Skåne

Introduction by Dr. Lovisa Sunesson,  
Business Development Manager,  
Invest in Skåne AB

10.00-12.00

## **Clintrial Skåne**

Getingevägen 4, Lund

Meeting partner: Ulf Malmqvist, CEO Clintrial Skåne

Discussion topics:

- Interaction university-hospital-clinical trials
- Business model?
- The reason for regional government involvement
- Future cooperations
- Region Skåne's biobank

12.00 -13.00 Lunch

13.30-16.00

## **Lund University Diabetes Centre**

Getingevägen 4, Lund

Meeting partner: Sylvie Bove, Business Developer/Innovation Officer

Discussion topics:

- Personalized diabetes care
- EXODIAB
- Links between diabetes and oncology – biomarkers?

16.00-18.00

## **Invest in Skåne AB**

Availability for an additional meeting/activity/ceremony

**Tuesday, 25<sup>th</sup> September 2012**  
**Green Tech visits GREEN VALLEY**

09.00-12.00

Functional and Holistic Building Design of the New Infection and Emergency Clinic

09.00-12.00

Carbon Free Energy Through Biogas and District Heating

13.30-16.30

Hazardous Waste to Energy (Malmö)

13.30-16.30

Energy Efficiency and Refurbishment

09.00-16.30

System Solutions for a Sustainable Hospital

**Wednesday, 26<sup>th</sup> September 2012**  
**Cleanmed Europe 2012 GREEN HOSPITAL**

09.00-18.00 Eco4Life & Inros-Lackner exhibition stand

**Thursday, 27<sup>th</sup> September 2012**  
**Cleanmed Europe 2012 GREEN HOSPITAL**

09.00-18.00 Eco4Life & Inros-Lackner exhibition stand

**Friday, 28<sup>th</sup> September 2012**  
**Cleanmed Europe 2012 GREEN HOSPITAL**

09.00-18.00 Eco4Life & Inros-Lackner exhibition stand

# STUDY TOUR SITE DESCRIPTION

**invest** in skåne

part of business region skåne

## Invest in Skåne AB

local host for Eco4Life study tour



Skåne is a highly dynamic and relatively unexploited region of Europe. It offers a unique combination of advantages to the international investor: a strategic location at the gateway between Scandinavia and Northern Europe, excellent transport links, a highly trained, English speaking workforce and a stable, diversified economy.

Whether you choose Skåne as a base for your European operations, as the location for your global HQ or simply set up a joint venture with a local company, Skåne offers all the key ingredients for success.

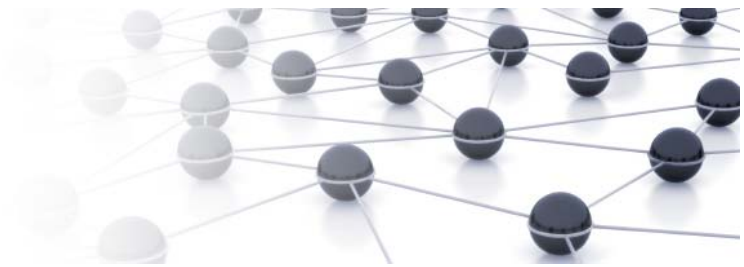
Invest in Skåne is the official regional promotion agency facilitating inward investment to Sweden's southernmost region Skåne, as well as promoting internationalisation of the regional industry. Invest in Skåne provides free professional advice and services to companies considering Skåne for future investment and/or expansion. We also assist Swedish companies to find international partners.

Here are some examples of how Invest in Skåne supports newcomers to the region:

- Contacts with businesses and academic circles, potential collaborators and local authorities
- Advice related to setting up your business in Sweden such as legal, labour and tax advice
- Introduction to service providers such as lawyers, accountants, relocation specialists and recruitment companies
- Selection and planning of visits to suitable site for manufacturing, R&D, headquarters, back office functions etc.

<http://invest.skane.com>

## ClinTrials Skane



Skåne is home to over 40 Clinical Research Organisations (CROs) and Contract Manufacturing Organisations (CMOs). From analytical chemistry to drug and pharmaceutical development and structural biology, CROs will help you study, research or manage all stages of clinical trials. In line with this, the region has created the company, ClinTrials Skåne, to improve the infrastructure for quicker and more effective clinical trials. The goal of the company is to make the region an attractive place to do clinical trials. ClinTrials Skåne will act as a link between the international life science industry and the local health and medical care groups.

GMP-certified CMOs are also on hand to provide a wide range of development and manufacturing services for pharmaceutical products. From early discovery to full-scale production and commercialisation of products, CROs and CMOs can provide a full range of services. Collectively, these companies represent a huge portion of the Swedish competence in this field.

**ClinTrials Skåne AB** is one of Region Skåne wholly-owned company that develops and provides services for clinical trials. We act as an intermediary between the life science industry and investigators and provides an infrastructure that facilitates and accelerates all steps in a clinical trial.

**ClinTrials Scania AB**, Region Skåne's mandate to include all financial dealings on behalf of. The Company has no financial gain but to provide health care benefits of an improved and expanded research.

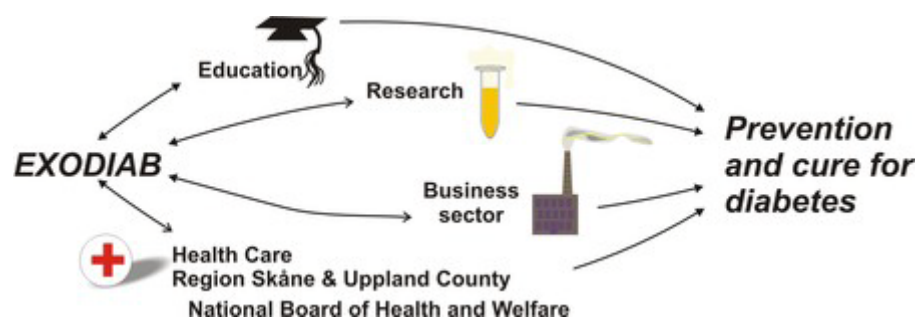
**ClinTrials Skåne AB** got Region Skåne's mandate to include all financial dealings on behalf of. The Company has no financial gain but to provide health care benefits of an improved and expanded research.

[www.clintrialsskane.se](http://www.clintrialsskane.se)

## EXODIAB Excellence Of Diabetes Research in Sweden

EXODIAB is a joint strategic research initiative in the diabetes area at Lund University (LU) and Uppsala University (UU) with the aim to create a national leading resource for diabetes research. EXODIAB is funded by a strategic research grant from the Swedish Research Council (Forskningspropositionen 2009).

Diabetes mellitus is a lifelong, incapacitating disease affecting multiple organs. Worldwide prevalence figures estimate that there are 250 million diabetic patients today and that this number will increase by 50% by 2025. It can be projected that at least 500,000 persons suffer from diabetes in Sweden today. Presently, diabetes can neither be prevented nor cured and the disease is associated with devastating chronic complications. Diabetes and its complications impose an immense burden on the quality of life of the patients and account for more than 10% of health care costs in Sweden or approx. 50,000 SEK/patient/year (approx. 5,000 €).



A central aim is to develop tools for prevention and successful treatment of diabetes. A broad multidisciplinary approach which integrates genetics, bioinformatics, physiology, cell biology, clinical, epidemiological and nutritional research is required to achieve these ambitious goals and pave the way for development of new strategies and therapies for prevention and cure of diabetes.

More specifically, EXODIAB aims to:

- Identify the underlying molecular events leading to T1D and T2D and test the pathways involved for their potential as novel drug targets
- Design a panel of biomarkers and genetic markers which may predict T1D and T2D and development of diabetic complications
- Test whether vaccination can be used to prevent T1D
- Exploiting novel dietary concepts and functional food for prevention and management of diabetes and obesity
- Create a national Human Tissue and Islet Research Resource for the cure of diabetes
- Create a novel endocrine organ at an extrahepatic site for clinical islet transplantation
- Test means to prevent micro-and macrovascular complications in diabetes

A central theme in the EXODIAB application is to generate not only local but also national platforms which can facilitate diabetes research in Sweden and the interaction between academia and industry. The EXODIAB consortium has some of the best biobanks in the world for diabetes research, incl. the Botnia study, Malmö Preventive Medicine, Malmö Diet and Cancer, the ULSAM study, ANDIS, TEDDY, DiPiS etc. In addition, the human tissue laboratory, which allows genomic data to be linked to tissue mRNA and protein expression profiles in human islets and target tissues such as liver, muscle and fat is an indispensable resource for diabetes research

[www.exodiab.se](http://www.exodiab.se)



## BIOBANKS and registers at Lund university

Biobanking is a key resource for healthcare to identify new potential markers that can be used in patient diagnosis and complement the targeted personalized drug treatment. The fast progression of biobanks around the world is becoming an important resource for society where the patient benefit is in the focus, with a high degree of personal integrity and ethical standard. Biobanks are providing patient benefits by large scale screening studies, generating large database repositories. It is envisioned by all participating stakeholders that the biobank initiatives will become the future gateway to discover new frontiers within life science and patient care. There is a great importance of biobank establishment globally, as biobanks has been identified as a key area for development in order to speed up the discovery and development of new drugs and protein biomarker diagnostics. One of the major objectives in Europe is to establish concerted actions, where biobank networks are being developed in order to combine and have the opportunity to share and build new science and understanding from complex disease biology. These networks are currently building bridges to facilitate the establishments of best practice and standardizations.

Sweden has a special track record and opportunity in Biobanking, not least due to the unique conditions and facilities offered by the Swedish system (health services system, high quality of research, personal identification number, active international collaboration, progressive legislation, positive attitudes among the public, etc.).

The Lund University has gained world-wide reputation with the Tissue Biobank for Cancer Research, the epidemiological cohort biobanks “Malmö Preventive Project” and “Malmö Diet and Cancer Study” and the Region Skåne’s Biobank.



## GREEN TECH VISITS

In addition to the main conference program, delegates will be offered a unique opportunity to make GreenTech Visits. During these visits, a variety of Skåne's most innovative solutions and facilities will be demonstrated. Skåne is one of the leading regions when it comes to sustainable health care, and has many inspiring examples to share with leaders of other regions.

### **Functional and Holistic Building Design of the New Infection and Emergency Clinic**

You will get an introduction to the design of the new Emergency and Infection Clinic at SUS in Malmö.

- LEAN, the hospital is working according to LEAN. The building is designed to meet the LEAN requirements and will guide the patient through a logical route. 95% of the infection clinic patients come through the Emergency. "Near but far away" is the motto why it's important to place the Clinic close to the emergency but still keep the patients separate to avoid infectivity.
- Architectural design and solutions to avoid infectivity.
- Innovative sustainable solutions in waste management and energy efficiency

### **Carbon Free Energy Through Biogas and District Heating**

SUS in Lund has worked closely with the local Energy producer, Lunds Energikoncernen, to lower the consumption and finding alternative sources of sustainable energy. The target is that Region Skåne will be fossil free 2020.

- We will start with a guided tour at the new biogas plant where biogas is produced from the local sewage plant. We will then get an introduction to how Region Skåne has managed to convert the vehicle fleet to run on alternative fuel.
- The second stop will be at Gunnesboverket which is the Power plant for the Lund district. There will be a tour and they will explain how they together with the hospital dramatically reduced the carbon footprint.

### **Hazardous Waste to Energy (Malmö)**

Hazardous waste from hospitals has always been an expensive and risky business. SUS in Malmö and the SYSAV, the local power plant, have developed a system (Protector) for safe handling and incineration. On the guided tour we will follow the hazardous waste on its journey from the operation room to the final destination in the state of the art incineration plant. The energy from burning the waste will go back to the hospital and the City through the District Heating system.

### **Energy Efficiency and Refurbishment**

At Skåne University hospital in Malmö the EU LIFE financed project CLIRE will show how two clinics can reduce their climate impact with 50 %. As part of this the building has been refurbished to create an energy efficient building and lower the energy use with 25%. Energy and sustainability issues are visualised for the personnel and patients. At the visit the energy efficiency measures and the clinics work to become more climate smart will be highlighted.



### **System Solutions for a Sustainable Hospital**

Kristianstad Hospital has worked consistently with the goal to be in the lead among the Swedish hospital within Sustainability. We will show you three successful examples:

- We will get an introduction to the laughing gas cleaning system. 1kg of laughing gas is equivalent to 298kg of CO<sub>2</sub>
- A new state of the art waste handling system has been installed. It can automatically sort several different fractions in a common refuse chute. This eliminates the risk of mixing waste and saves money.
- You will get an introduction to how the hospital drastically has reduced the energy consumption existing buildings from the 60's.

### **Western Harbour: Shipyard to Sustainable City**

We will take you on a walk through the Western Harbour. This area has been transformed from a historical shipyard and industrial area to a modern Sustainable City. Western Harbour is internationally recognized as a forerunner when it comes to sustainable urban development. Tens of thousands of visitor comes here for study tours every year. Where once ships were built is now areas for recreation and sustainable living.

Watch a video about Green Malmö and the Western Harbour>>

[www.euronews.com/2012/01/26/malmo-shows-off-its-green-regeneration/](http://www.euronews.com/2012/01/26/malmo-shows-off-its-green-regeneration/)



## CLEANMED CONFERENCE MALMÖ



CleanMed is the world's leading conference focusing on sustainable health care. During 26-28 September 2012 the European version of the conference will be held for the third time in its history. The conference will be held in Malmö, the most continental city of Sweden. CleanMed 2012 will provide you with a holistic view on the impact of healthcare on society – at both global and local level. We look forward to offering a wide spectrum of current topics presented by leading international experts and organizations.

CleanMed Europe is THE European conference on sustainability within the health care sector. The conference addresses the environmental impact of the health care sector on a local, regional, and global level. During 26-28 September 2012 the European version of the conference will be held for the third time in its history. The conference host is Region Skåne and the conference will be held in Malmö, the most continental city of Sweden.

CleanMed Europe offers a wide spectrum of presentations and workshops on today's most pressing environmental issues, presented by leading international experts and organisations. Founded in 2001 by the non-profit organization Health Care Without Harm, the conference serves as a clearing house for cutting-edge practices related to designing and building greener hospitals, creating healthier food systems and promoting preventive medicine.

The organisers of the 2012 conference are Health Care Without Harm, Region Skåne, and TEM. Sustainable Business Hub is in charge of the GreenTech Visits

[www.cleanmedeurope.org](http://www.cleanmedeurope.org)



## **CLEANMED CONFERENCE Program**

08:30 **Registration starts**

9:00-12:00 Pre-conference event: Workshop on Chemical Substitution and Alternatives Assessment

9:00-12:00 Pre-conference event: Sustainable Healthcare for the Future - Lessons from three EU Leadership Projects

9:00-12:00 GreenTech Visit: Western Harbour- shipyard to sustainable city

**10:30 Exhibition starts**

12:00-13:00 **Lunch**

13:00-15:00 **Opening session - Plenary**

María Neira - Director of the Department of Public Health and Environment at the WHO  
Anja Leetz Executive Director HCWH Europe  
Representatives of the organisers

15:00-15:30 **Coffee break**

15:30-17:00 Parallel sessions:

A1 Waste Management in Healthcare

A2 Hospital of the Future

A3 Pharmaceuticals in the Environment

A4 Health Effects of Climate Change

18:00 Join drinks and dinners sponsored by our partners in Malmo  
your own. on

Thursday, 27th September

9:00-10:00 **Plenary**

Prof. Hugh Montgomery Climate and health **Coffee break**

10:30-12:00 Parallel sessions:

B1 Energy Efficiency in Existing Healthcare Buildings

B2 Green Procurement in Healthcare

B3 PVC Replacement Strategies in Healthcare

B4 Communicate & Engage

12:00-13:00 **Lunch**

13:00-14:30

**Parallel sessions:**

C1 Social Responsibility & Reporting in Healthcare

C2 Innovative Renewable Energy Solutions in Healthcare

C3 Water as a Neglected Resource for Health and Well-being of Patients and Personnel

C4 Non-toxic Healthcare

14:30-15:30 **Exhibition and coffee**

15:30-17:00 **Plenary**

Cathey Eisner Falvo, president of the International Society of Doctors for the Environment

18:00 Dinner at the Luftkastellet by the Oresund bridge. Transportation with biogas-buses.

Friday, 28th September 9:00-10:30

**Parallel sessions:**

D1 Responsible Supply Chain Management

D2 Operational Efficiency in Healthcare as a Way of Reducing Environmental Impact

D3 Innovative Solutions for Sustainable Healthcare

D4 Leadership & Management Systems in Healthcare **Coffee break**

11:00-12:30 **Plenary**

Gary Cohen - President of Health Care Without Harm

Panel Discussion: The Future of Sustainable Health Care

12:30-13:30 **Lunch**

**lifescience** marine resources  
 healthy aging food **baltic sea**  
**health** **region** green growth  
**region** smart growth cleantech technology  
**innovation** **green**  
 bioregion sustainability **valley**  
 hospitals enterprise **science** regenerative medicine  
 industrial biotech partnering eco-efficiency  
 research **ecology** macroregion  
**biotech** cluster of clusters **environment**

For further information please refer to

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Eco4Life: Cross-Sectoral Cluster of Life Science and Green Valley in the South Baltic Sea

BioCon Valley GmbH and The Eco4Life project express their special thanks to Invest in Skåne AB for their support in organizing the study tour.

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