



VIA | VÄSTERBOTTEN  
INVESTMENT AGENCY

# *Anti-infective research - in Umeå*



*Investing in your future*



Regional Partner

THE SWEDISH TRADE & INVEST COUNCIL

# Unique insight on the pathogenicity of microbes and novel approaches on antibiotics

- **3 universities with 35.000 students** (Umeå University [www.umu.se](http://www.umu.se), Luleå Technical University [www.ltu.se](http://www.ltu.se), Swedish University of Agricultural Sciences, [www.slu.se](http://www.slu.se))
- **UCMR** – Umeå Center for Microbial Research with research in infection and pathogenicity ([www.ucmr.se](http://www.ucmr.se))
- **FOI** – Swedish Defence Research Agency provides services within the area of infection and microbiology ([www.foi.se](http://www.foi.se))
- **Biotech Umeå** with spin out companies ([www.biotechumea.se](http://www.biotechumea.se))
- **Umeå Biotech Incubator** – Infrastructure to support spin-outs with both facilities, seed financing and business development. ([www.ubi.se](http://www.ubi.se))

# Umeå Center for Microbial Research (UCMR)

- 170 scientists from 35 nationalities, 30 graduate students
- Expertise from chemistry, physics, medicine and biology
- Pathogenic mode of action
- Vaccines
- Organisms studied:

Adenoviruses

Rhinovirus

Borrelia

Staphylococcus

E. coli

Streptococcus

Francisella

Trypanosoma

Helicobacter

Vibrio

Listeria

Yersinia

Pseudomonas



# Companies in infectious diseases

- **Adenovir Pharma** – developing an antiviral pharmaceutical product for treatment of Epidemic Keratoconjunctivitis, an infectious disease affecting the eyes. In phase II clinical trial.
- **Eirium** – developing compounds which limit the infectivity of adenoviruses and drug resistant herpes simplex virus. Preclinical.
- **Helicure** – has a therapeutic vaccine against *Helicobacter pylori* soon in clinical trials. It prevents development of some types of gastric cancers. Soon in phase I clinical trial.
- **Karlson & Novak** – runs the website klamydia.se, a unique site for home diagnostics of chlamydia. On the market.
- **Omnio Healer** – develops drugs for wound healing and anti-infection. Soon in a combined phase I/IIa clinical trial.
- **Probac** - manufacture, market and license probiotic products. One product, Proactiv, helps to strengthen the natural bacterial flora in the throat and prevents recurrence of throat infections. On the market.
- **QureTech** – develop virulence blockers against G- bacteria. Preclinical.
- **Tanomed** – Enzymatic spray that prevents and treats rhino viral infections (common cold). On the market late 2014.

# FOI - Swedish Defense Research Agency

- Contract research in anti-infective research and development
  - *In vivo* infection models for preclinical evaluation of antimicrobial compounds and vaccines
  - Models for lung diseases
  - Models for skin penetration studies
  - Synthesis of bioactive compounds for preclinical testing
  - Quantitative and qualitative analysis of bioactive compounds
  - Protein characterization and assay development
  - Macromolecular structure determination and modelling

# Biotech Umeå

## – the Life Science cluster in Västerbotten

- 3.000 people employed in the life science sector
- >70 companies in the region
- High quality incubator facility, Umeå Biotech Incubator, with pre-seed funding and laboratories and staff to help projects
- Easy to recruit qualified personnel
- Well functioning collaboration between industry, academia and clinical care

# Doing Business in Västerbotten

- Entrepreneurial spirit
- Three universities –Swedish University of Agricultural Science, Umeå University and Luleå University of Technology
- Good communications: 5 commercial airports, 2 seaports, railways
- Sweden’s best province for family life, and third for young citizens
- Lowest crime rate in Sweden



# Superior business climate

- One of the most competitive and globalized countries in the world <sup>1</sup>
- Excellent access to skilled and cost competitive labor market <sup>2</sup>
- Favorable corporate taxation climate
- One of the lowest electricity costs for industrial consumer in Europe <sup>3</sup>
- Very active industry-academia collaboration<sup>4</sup>

1 World Economic Forum index

2 IMD, U.S. Department of Labor, Watson Wyatt

3 Eurostat

4 World Economic Forum





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Västerbotten Investment Agency (VIA) is a regional investment promotion agency dedicated to make the Västerbotten province the most attractive choice for foreign investors and companies thinking about establishing or expanding their business operations in North Sweden.