**Research group**  Pierre Åman, Department of Pathology Biomedicine

**Research**

*FUS, EWSR1* and *TAF15* (FET) are three closely related genes encoding RNA binding proteins with multiple functions. They form tumor type specific fusion oncogenes with a number of transcription factor encoding genes. See figure below.

As can be concluded from the figure, FUS, EWSR1 and TAF15 can replace each other in different fusion oncogenes and consequently they carry a common functional protein part that is important for the oncogenic activity. In addition to oncogenesis, mutations in *FUS* has been implicated in development of amyotrophic lateral sclerosis.

The overall aim of the project is to map and investigate the functional domains of the FET proteins in order to understand their functions in normal tissues and under pathological conditions. We are using a toolbox comprising molecular genetics including microarray, advanced QPCR, cloning, various types of expression vectors, and advanced proteomics for analysis of functional recombinant parts of the proteins. We are also using a xenograft animal model for analysis of tumorogenesis and attempts with novel treatment strategies.

**Coworkers**

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<tr>
<th>Coworker</th>
<th>Position</th>
<th>Date</th>
<th>Notes</th>
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<tr>
<td>Anders Ståhlberg</td>
<td>Young investigator, PHD</td>
<td>From January 2010</td>
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<tr>
<td>Katarina Engström</td>
<td>MD specialist oncology</td>
<td>From 2006</td>
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<tr>
<td>Pernilla Grundevik</td>
<td>Master of Biotechnology</td>
<td>From April 2009</td>
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<tr>
<td>Farzaneh Alemirad</td>
<td>Technician</td>
<td>From April 2009</td>
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<tr>
<td>Christer Thomsen</td>
<td>PhD student</td>
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<tr>
<td>Christina Kåbjörn</td>
<td>PhD student MD Specialist pathology</td>
<td>From 2003</td>
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<td>Linda Strömblohm</td>
<td>PhD student Biotechnology</td>
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**Collaboration Partners**

- **Professor Mikael Kubista**  Dept of Gene expression, Institute of Biotechnology AS CR, Prague, Czech Republic.
- **Professor Jiri Bartek**  Danish Cancer Society, Institute of Cancer Biology, Strandboulevarden 49 DK-2100 Copenhagen DENMARK +45 35 25 75 00  bio@cancer.dk
Selected references


CV
Pierre Åman,
Born in Helsingborg, Sweden 1953.


Employments and stipends:
Assistant researcher position from Swedish Cancer Society 1987-1990
Clinical position at laboratory for clinical genetics University hospital of Lund. 1994-1998
Professor of tumor biology (present position) from 1998.

P.Å has published more than 100 peer reviewed papers and supervised 9 PhD students with further 3 ongoing, acted as opponent on 15 thesis at Gothenburg, Lund, Linköping and Uppsala Universities and at Karolinska Institute.
P.Å was a member of the grant priority committee LUA ALF, Sahlgrenska Universitetssjukhuset 2004-2006,