The Swedish Drug Development Pipeline produced five new products during 2008 May, 2009

A survey conducted by:







The survey 2009 of the Swedish Drug Development Pipeline

- In February April 2009 a survey of the Swedish Drug Development Pipeline was conducted by SwedenBIO in cooperation with Invest in Sweden Agency (ISA) and VINNOVA.
- The survey includes projects originating and developed in Sweden*.
- SwedenBIO, ISA and VINNOVA will use the results to promote the Swedish Drug Development industry and to generate business contacts.
- SwedenBIO, ISA and VINNOVA would like to thank all the participating companies.
- An overview of projects originating from AstraZeneca as well as an overview of clinical trials performed in Sweden are summarized in the Appendices.

^{*} The analysis does not include companies conducting research outside Sweden for example Pfizer, Roche and Amgen

Stable and advancing pipeline delivered five new products during 2008

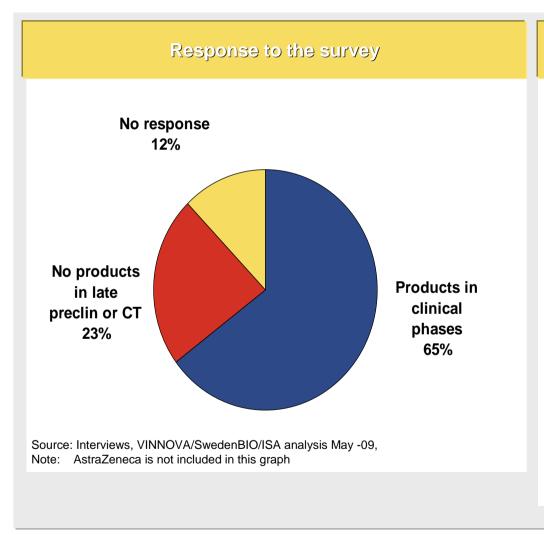
- Number of projects in Phase I-III remains constant from 2008, at around 75 projects in phase I-III.
- Number of Drug Development companies in phase I-III remains constant at about 30.
- Five products were approved during 2008.
- Fewer pre-clinical projects reported
- The dominating therapeutic categories are neurological disorders and cancer-related conditions.
- 55 % of the projects in phase I-III are chemical molecules, 42 % are protein-based molecules and 3 % were not disclosed in the survey.

<u>Appendix</u>

- A, Globally AstraZeneca has almost as many projects in their pipeline as all of the Swedish Drug Development companies.
- B, Sweden is among the top ten countries in number of clinical trials performed.

Swedish Drug Development Pipeline 2009 – **Survey details**

90 companies were asked and 78 responded



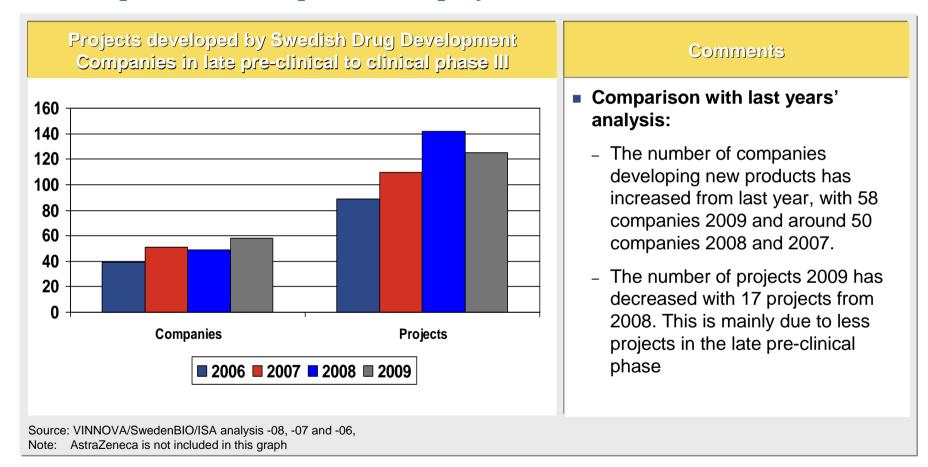
Comments

- 90 companies¹ were contacted about participating in the survey.
- 21 companies (23 %) stated that they only had projects in earlier phases.
- 11 companies either did not reply or stated that they did not wish to participate because of confidentiality agreements etc.
- In this presentation, only companies (58 for 2009, 49 for 2008, 51 for 2007 and 39 for 2006) with projects in late pre-clinical phase (<12 months from entering Phase I) or clinical trials (CT) have been included in the statistics.

¹ Selected with regard to potentially relevant projects

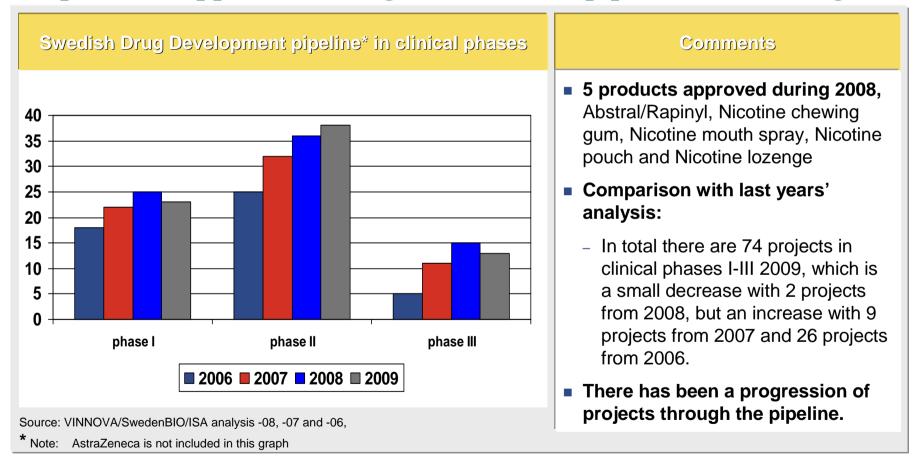
Swedish Drug Development Pipeline 2009 – **Overview**

More companies – fewer pre-clinical projects



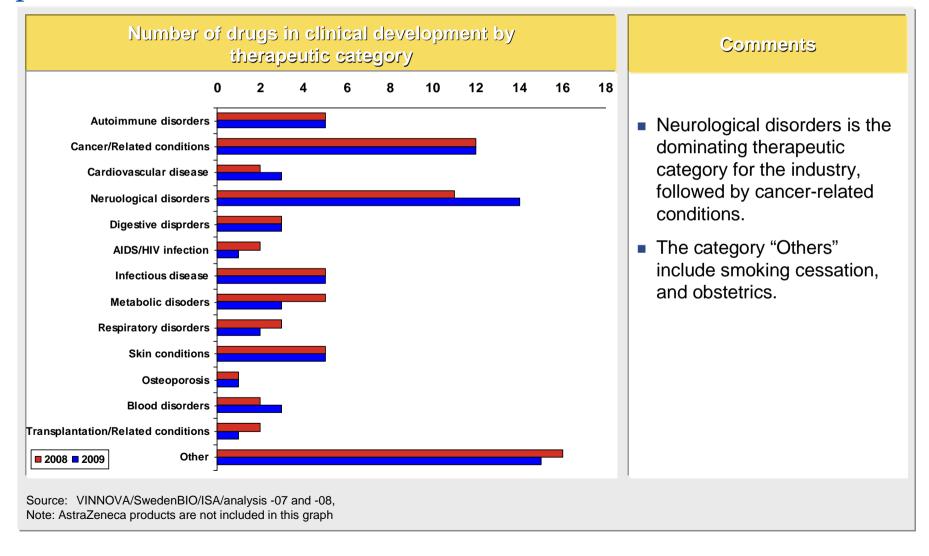
Swedish Drug Development Pipeline 2009 – **Overview**

Five products approved during 2008 and the pipeline is maturing



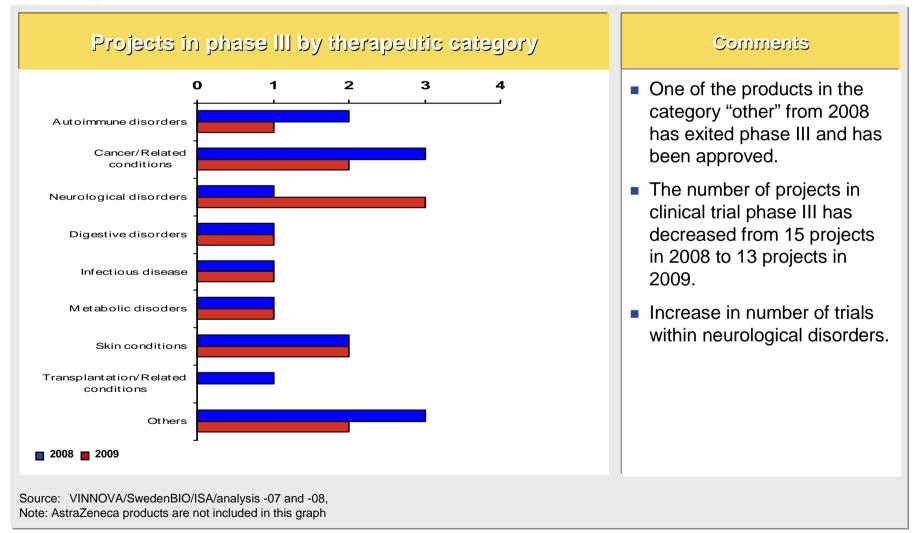
Swedish Drug Development Pipeline 2009 – Comparison 2008 and 2009 by therapeutic category in phase I-III

Neurological disorders and cancer-related conditions are dominating the pipeline



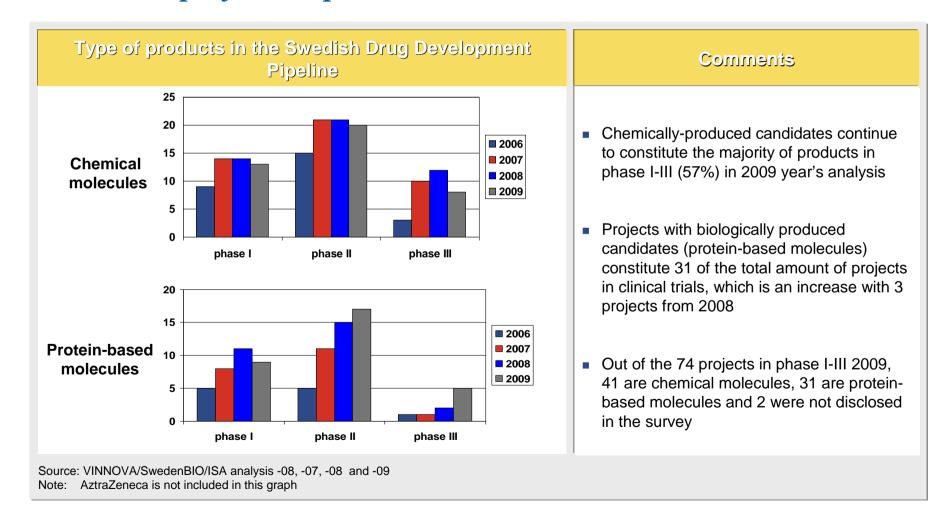
Swedish Drug Development Pipeline 2008 – Comparison phase III 2007 and 2008 by therapeutic category

Two projects within neurological diseases has progressed from phase II to phase III



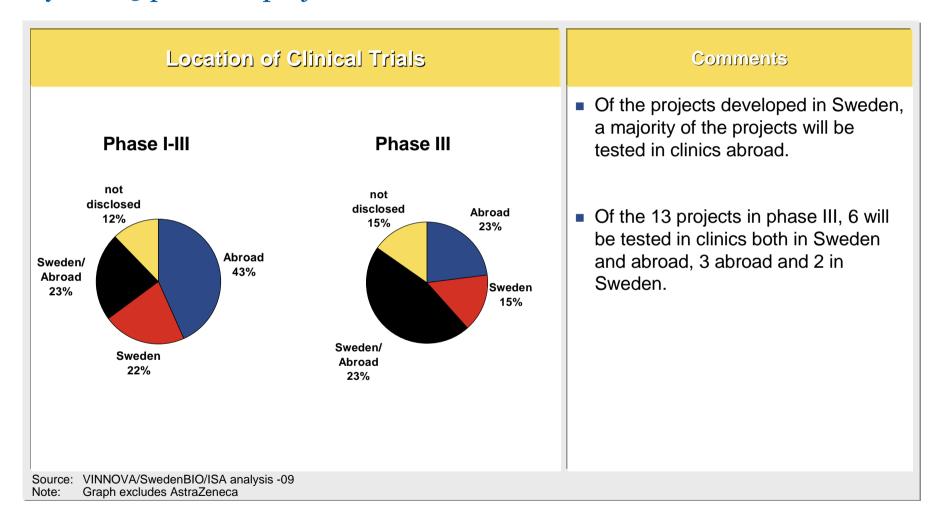
Swedish Drug Development Pipeline 2008 – **Distribution of small and large molecules in phase I-III**

Prominent increase in biologics, but chemical molecules still in majority with 10 more projects in phase I-III



Swedish Drug Development Pipeline 2008 – Location of Clinical Trials

Only 8 of 13 phase III projects will be tested in Sweden

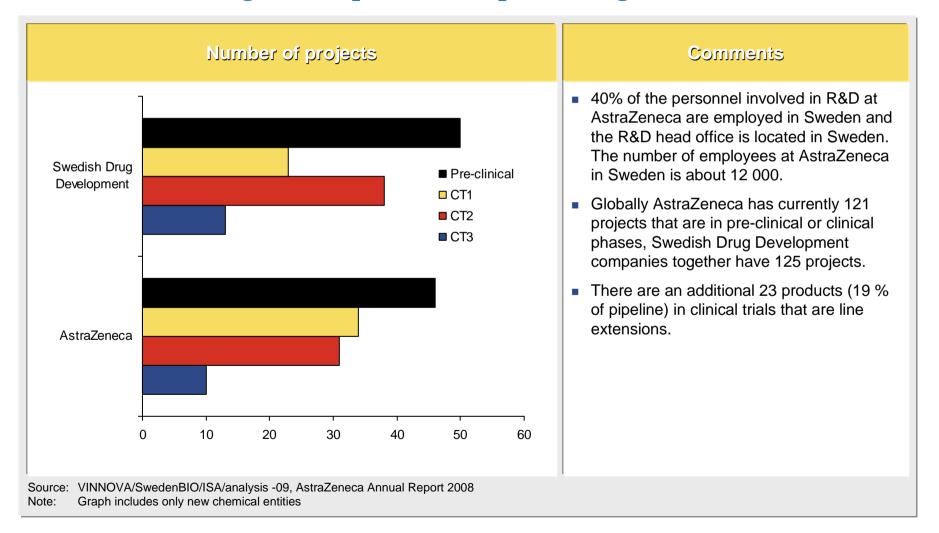


Five products approved during 2008 and a stable clinical pipeline advancing

- The pipeline stays essentially the same since 2008, and it will be interesting to analyse the pipeline next year to see if there has been any influence by the financial turmoil.
- There has been a progression through the phases (I-III) and 5 products were approved from the Medical Product Agency (MPA) during 2008.
- The Swedish companies pursue more protein-based projects, with an increase over the years, even though chemical molecules are still in majority with 41 projects compared to 31 protein-based projects.
- Projects in clinical phases will mainly be tested abroad, but a significant proportion will also be tested in Swedish clinics.
- Academia is still a very important contributor to the innovative research and many of the companies in the analysis are founded around ideas and projects originating in academia.

Swedish Drug Development Pipeline 2009 – **AstraZeneca versus the Drug Development sector**

Globally AstraZeneca has as many projects in clinical trials as all of the Swedish Drug Development companies together



Appendix B

Swedish Drug Development Pipeline 2009 – Clinical Trials in Europe

Sweden is among the top ten countries in number of clinical trials performed

