An analysis of the Swedish Biotech Pipeline April, 2007





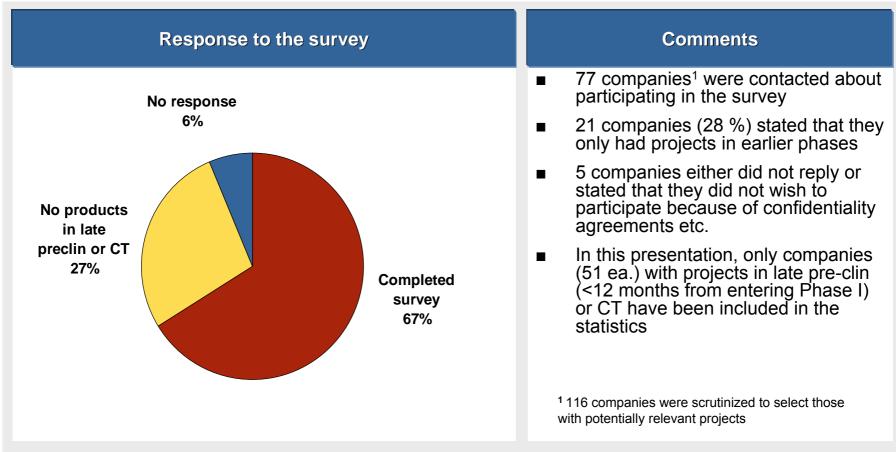


A Survey of the Swedish Biotech pipeline

- In February-March 2007 a survey of the Swedish biotech pipeline was conducted by SwedenBIO in cooperation with Invest in Sweden Agency (ISA) and VINNOVA
- Results are impressive: of the 169 projects, 65 Swedish projects, excluding AstraZeneca, are in clinical trials (phase one, two or three) and 45 CDs are in late pre-clinical trials (less than 12 months from entering Phase I)
- Only NCEs (New Chemical Entities) from the Swedish R&D units at AstraZeneca have been included in the report
- SwedenBIO, ISA and VINNOVA will use the results to promote the Swedish biotech industry and to generate business contacts
- SwedenBIO, ISA and VINNOVA would like to thank all the participating companies



77 companies were contacted about the survey and 72 responded

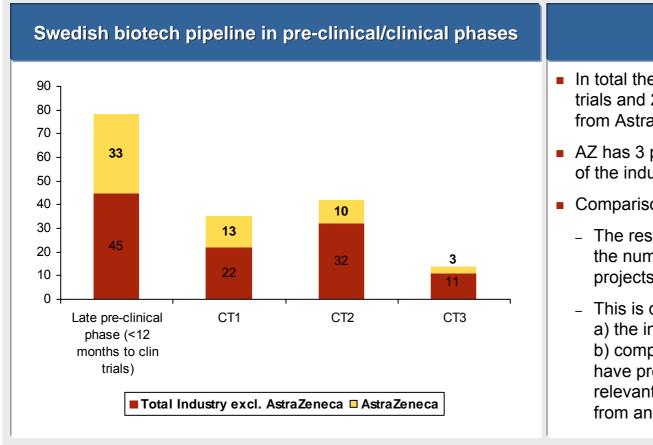


Source: Interviews, VINNOVA/SwedenBIO/ISA analysis April -07, AstraZeneca Annual Report 2006 and interviews

Note: AztraZeneca is not included in this graph. In some cases, survey data has been completed with information from company homepages



The Swedish biotech pipeline has 169 projects in late pre-clinical or clinical trials. 59 of these projects stem from the Swedish R&D units at AstraZeneca



Comments

- In total there are 91 projects in clinical trials and 29 % of these projects stem from AstraZeneca (AZ)
- AZ has 3 projects in CT3 while the rest of the industry has 11.
- Comparison with last year's analysis:
 - The rest of the industry has increased the number of projects with 24 % (21 projects)
 - This is due to two reasons:
 a) the inclusion of more companies
 b) companies from the 2006 analysis have progressed more projects into relevant phases or acquired them from another company

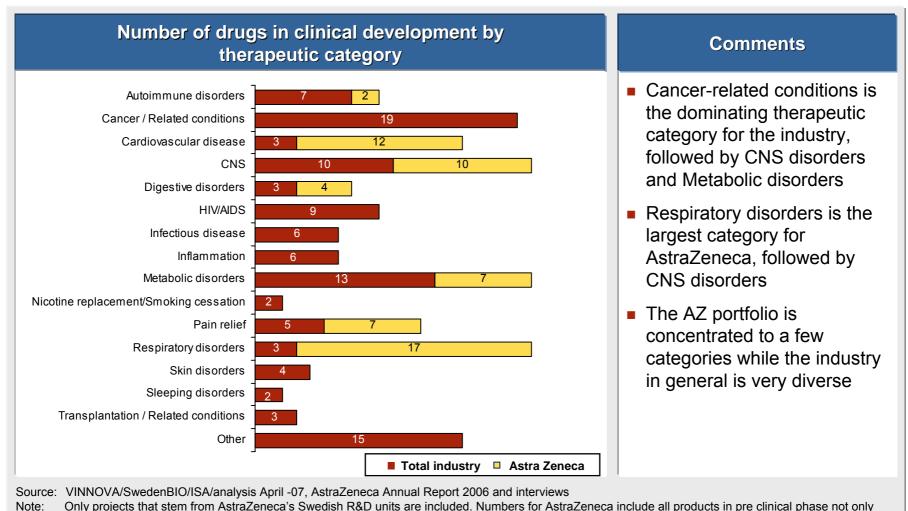
Source: VINNOVA/SwedenBIO/ISA/analysis April -07, AstraZeneca Annual Report 2006 and interviews

Only projects that stem from AstraZeneca's Swedish R&D units are included. Numbers for AstraZeneca include all products in pre clinical phase not only the products in late pre clinical development as for the rest of the industry. Only NCEs have been included.

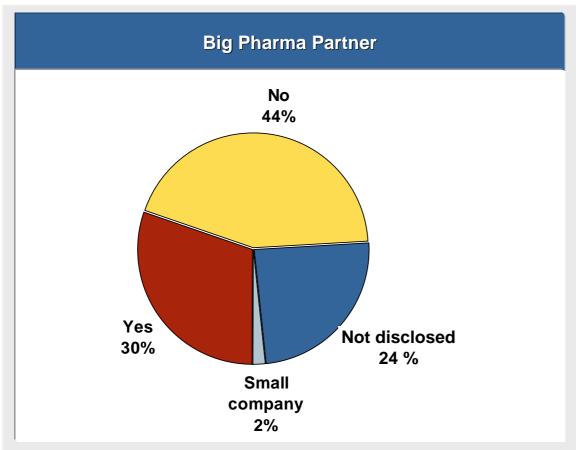


the products in late pre clinical development as for the rest of the industry. Only NCEs have been included.

The dominating therapeutic category for non- AZ projects is cancer-related conditions



49 Swedish projects have not yet been partnered with Big Pharma or another company



Comments

- 32 % of the projects are already partnered with a Big Pharma or another smaller company
- However, 44 % of the projects are currently available for partnering
- 12 of the 34 partnered projects are in pre-clinical phase and 22 in Phase I-III.
- 4 projects in Phase III do not have a partner
- AstraZeneca is not included in the analysis

Source: Interviews, VINNOVA/SwedenBIO/ISA analysis April-07

Note: Graph includes drugs from late pre clinical to phase three, graph excludes AstraZeneca



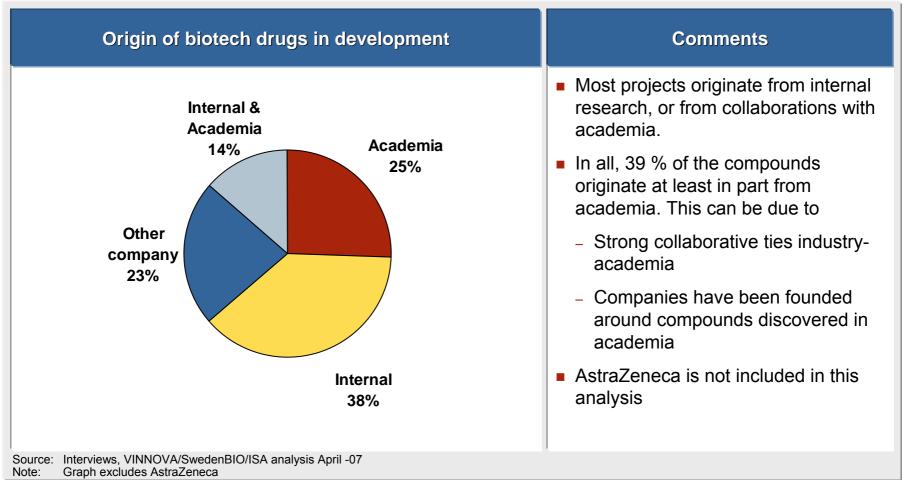
Comparison 2006-2007

	2006	2007
No. of companies	69	77
No. of companies with relevant projects	39	51
No. of projects	89	110
Projects in		
Late Pre-clin	41	45
Phase I	18	22
Phase II	25	32
 Phase III 	5	11

AstraZeneca is not included in this analysis

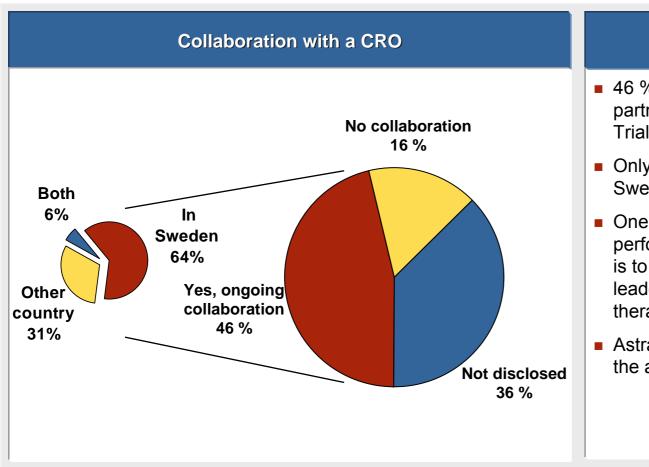


39 % of the projects originate from collaborations with academia



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29 % of the projects are tried by Swedish CROs



Comments

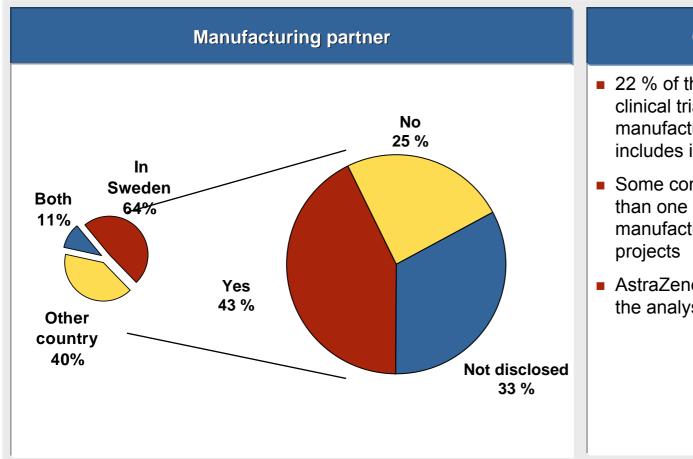
- 46 % of the projects had a CRO partner to carry out the Clinical Trials
- Only three projects had both Swedish and foreign CROs
- One of the key rationales for performing clinical trials abroad is to always use key opinion leaders as trial leaders in the therapy area of interest
- AstraZeneca is not included in the analysis

Source: Interviews, VINNOVA/SwedenBIO/ISA analysis April -07

Note: Graph includes drugs from late pre clinical to phase three, graph excludes AstraZeneca



41 % of the projects have an external manufacturing partner



Comments

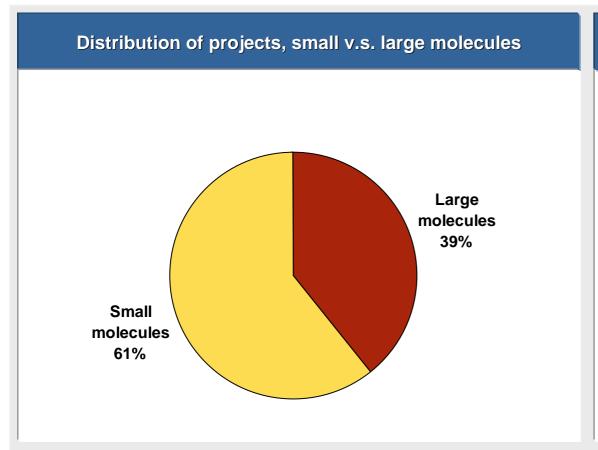
- 22 % of the compounds used for clinical trials will be manufactured in Sweden. That includes internal manufacturing.
- Some companies with more than one project select different manufacturing partners for the projects
- AstraZeneca is not included in the analysis

Source: Interviews, VINNOVA/SwedenBIO/ISA analysis April -07

Note: Graph includes drugs from late pre clinical to phase three, graph excludes AstraZeneca



The majority of projects in development by Swedish biotech companies are small molecules



Comments

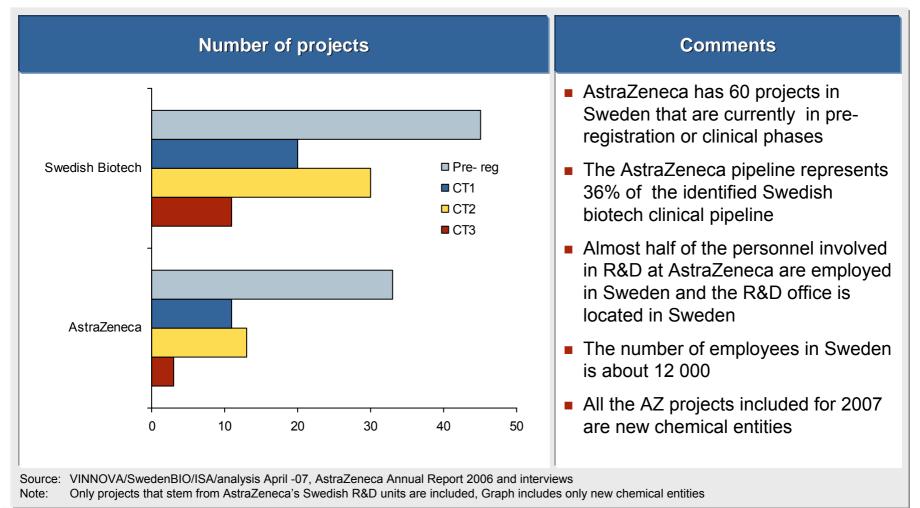
- The focus is still on small molecules, although large molecules are increasing from previous years
- Small molecules are defined as molecules that can be chemically synthesized
- Large molecules are defined as molecules that are developed and produced using biological systems

Source: Interviews, VINNOVA/SwedenBIO/ISA analysis April -07

Note: Graph includes drugs from late pre clinical to phase three, Graph excludes AstraZeneca



AstraZeneca has approximately 40 projects in clinical trials which is about 30% of the identified Swedish biotech pipeline



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