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About the report

This report provides facts and figures about the current Swedish drug development pipeline for drugs intended for use in humans. The report serves as a quantitative indicator of the status and progress of the Swedish drug pipeline compounds, projects and their characteristics.

The projects that are analysed in depth have reached Phase I–III clinical development, and originate from a web-based survey and public information. Data and information is also presented from companies with projects in pre-clinical phase.

The report has been produced annually since 2006 and is published by SwedenBIO, the Swedish Life Science Industry Organization (www.swedenbio.se). Financial support has been obtained from Vinnova, the Swedish Governmental Agency for Innovation Systems (www.vinnova.se).

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Material and method

A list of potentially relevant companies, with projects in pre-clinical and clinical stage was compiled. The list was based on the companies enclosed in last year's report, and supplemented with Swedish companies included in the database Biotech Gate (www.biotechgate.com). A search for companies in Swedish science parks and incubators was also done. Several companies were contacted directly in order to confirm on-going R&D activities. A more thorough investigation was done this year, which is why more companies were found, especially within the pre-clinical phase.

During October and November 2015, the companies on the list described above were invited to participate in a web based survie, about current pipeline status. Moreover, SwedenBIO recruited additional companies by informing about the survey in a newsletter and on the SwedenBIO website.

In total, 59 companies responded to the survey. For the remaining companies, pipeline information was collected from sources such as last year's report, company websites, www.clinicaltrial.gov and by e-mail and telephone interviews.

Corporate information, e.g. financial data from 2014, was obtained from Allabolag (www.allabolag.se).

Data from previous reports – The Swedish Drug Development Pipeline report -06, -07, -08, -09, -10, -11, -12, -13 and -14 were included for comparison. All reports may be downloaded from the SwedenBIO website: www.swedenbio.se/rapporter.

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All illustrations are photos of aquarelles by Ina Schuppe Koistinen, find more on inasakvareller.se

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INTRODUCTION

Optimistic companies push the Swedish drug development pipeline forward

he Swedish life science industry includes 1500 companies within pharma, biotech and medtech. Of these, around 800 are engaged in research and development programs in Sweden (Vinnova Analysis 2014:13).

This report highlights the approximately one hundred companies with Swedish headquarters that actively develop novel drugs. The report has been conducted annually since 2006 with the aim to map how the Swedish drug development pipeline evolves over time.

This year, 123 Swedish drug developing companies were identified, of which 58 have projects in clinical phase. The pipeline analysis presented in the report focuses on the companies that have projects in clinical phase I–III. You will also find an overview of the Swedish drug developing companies, including statistics on turnover, number of employees and company lists sorted by name, by therapeutic area and by development phase.

There are currently 107 projects in clinical development, which is an increase of 15 projects compared to last year. As in previous years, there is an accumulation of projects in phase II and this trend is now even stronger. The number of projects in phase I has increased and the number of projects in phase III has decreased. Of the

As in previous years, there is an accumulation of projects in phase II and this trend is now even stronger. The number of projects in phase I has increased and the number of projects in phase III has decreased. Of the phase III projects from last year, five have received positive results.

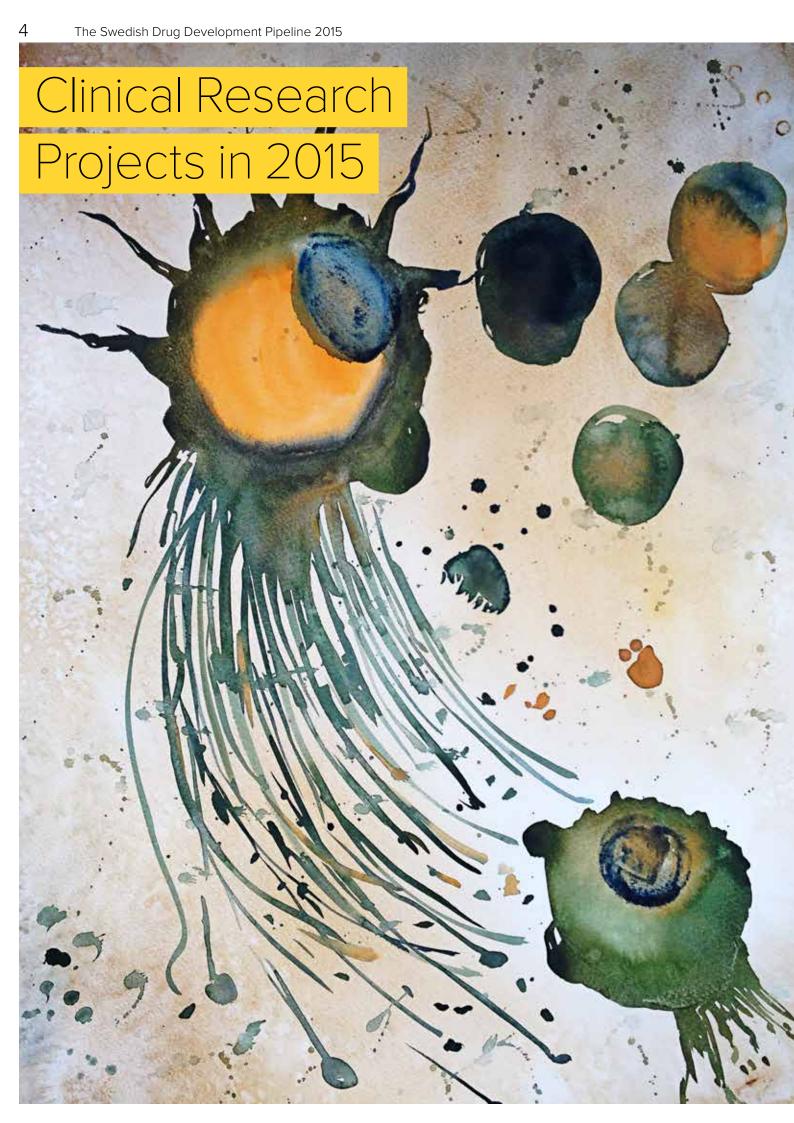
phase III projects from last year, five have received positive results.

Oncology and CNS are the therapy areas with most projects in clinical development.

There are now 38 oncology projects, which is an increase from 27 last year. There are 12 projects within CNS this year, compared to 9 projects last year.

Together, the 123 drug developing companies have around 1500 employees (based on data from 2014). However, almost 9 out of 10 companies are micro-sized businesses with 10 employees or less, and almost half of the companies have zero or one employees. These companies typically have a significant part of their R&D allocated to external consultants and specialized service providers.

This year, 59 of the 123 drug developing companies responded to our in depth web survey. To better understand the ecosystem around the drug developing companies, we asked companies about the ratio between employees and consultants. Within R&D, the 59 companies together employ almost as many consultants as internal R&D employees. For the first time, the survey also included questions about expectations for the coming three years. Of the 59 respondents, 43 companies said that they will add employees, increase their use of consultants, or both.



PROJECTS ACCUMULATE IN PHASE II

This year, the numbers of projects in the respective phases are reported as being 30 projects in Phase I, 70 in Phase II and 7 in Phase III.

Compared to last year, there has been a substantial increase in the number of Phase I projects (+9), but a decrease in the number of Phase III projects (-6). As in previous years, the large majority of the projects are found to be in Phase II, and this number has increased from 55 to 70 projects (+15).

Since last year's report, 28 projects have changed status, either from pre-clinical to clinical phase, or moved on to the next clinical phase, indicating good overall progress in the Swedish drug development pipeline.

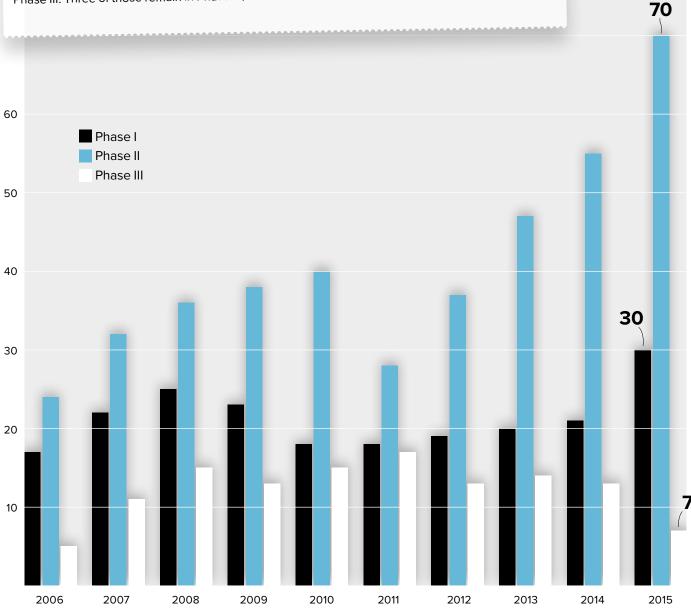
Seven Phase III projects

Last year 13 projects were reported to be in Phase III. Three of those remain in Phase III, five

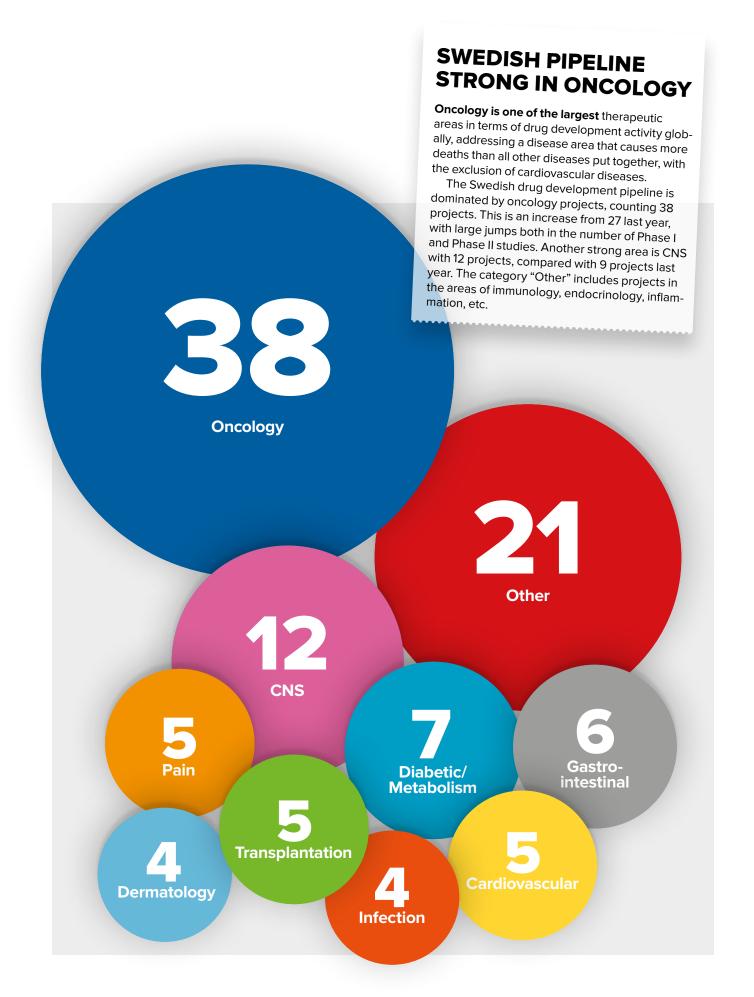
have generated negative results or changed their focus, five have received positive results. During 2015, four new projects entered Phase III.

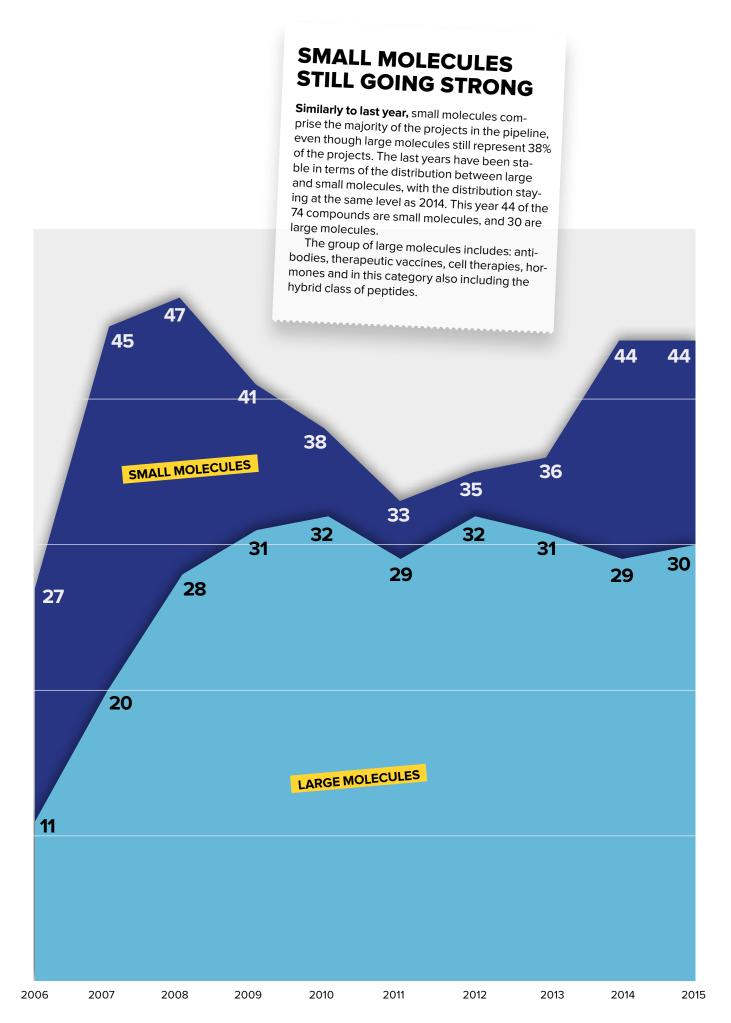
Projects reaching the market

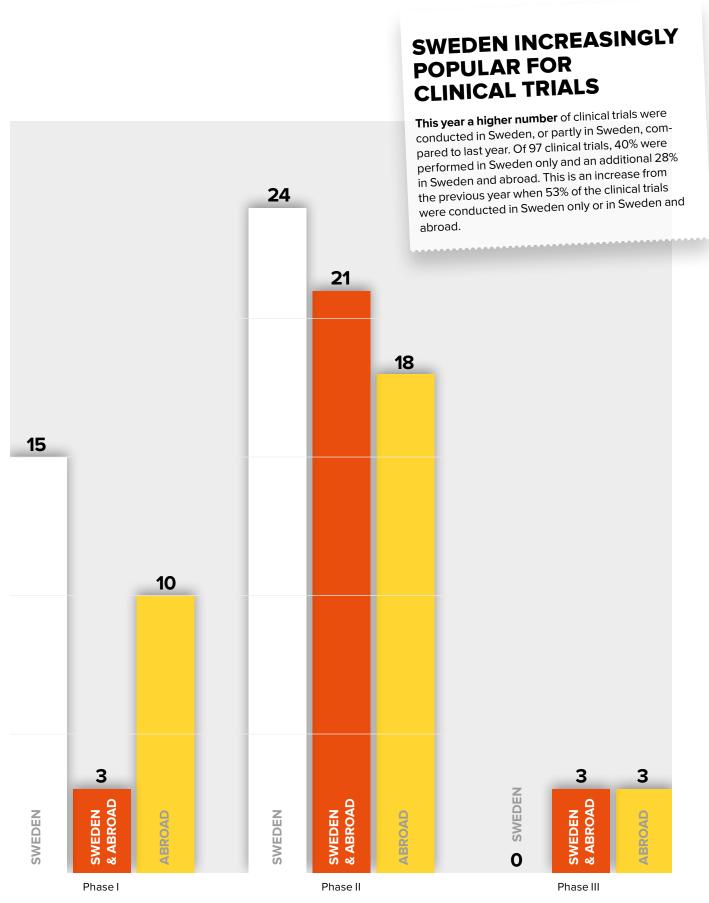
Oasmia's lead cancer product, Paclical, has received market approval in the Russian Federation. Recently EMA approved SOBI's Xiapex for concurrent treatment of palpable cords, Orfadin was approved in Japan for the treatment of hereditary tyrosinaemia type-1 and Cometriq was approved in Europe for the treatment of progressive, unresectable, locally advanced or metastatic medullary thyroid carcinoma.



Source: web based survey, public databases, company webpages and company interviews







ORPHAN DRUGS ON THE RISE

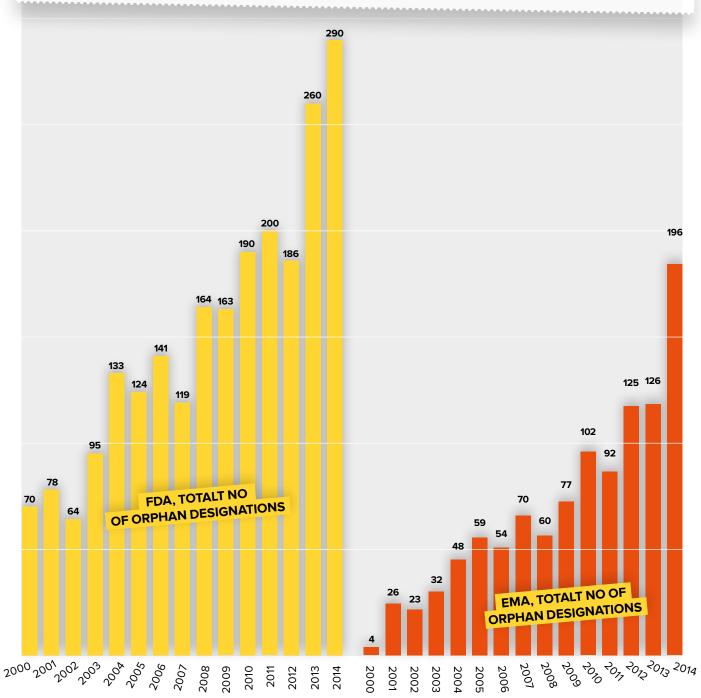
Global trend

Developing a treatment for a rare disease has become increasingly popular, and a record 290 and 196 orphan drug designations were granted in the US and EU respectively in 2014.

Although a rare disease only affects 5 out of 10,000 persons or less according to EU definition, the market share for orphan drugs is expected to account for 19% of the total share of prescription drug sales in 2020 excluding generics, reaching \$176 billion in worldwide annual

sales (Orphan Drug Report 2014, EvaluatePharma).

To get orphan designation in the EU, the medicine has to be developed for the diagnosis, prevention or treatment of rare diseases that are life-threatening or chronically debilitating. About 30 million people living in the European Union suffer from a rare disease (EMA). The indication with most filed orphan drug designations in EU is Non-Hodgkin Lymphoma (Orphan Drug Report 2014, EvaluatePharma).



 $\textbf{Source:} \ \mathsf{EMA}, \mathsf{FDA}, \mathsf{company} \ \mathsf{web} \ \mathsf{pages} \ \mathsf{and} \ \mathsf{Orphan} \ \mathsf{Drug} \ \mathsf{Report} \ \mathsf{2014}, \ \mathsf{EvaluatePharma}.$

Swedish companies

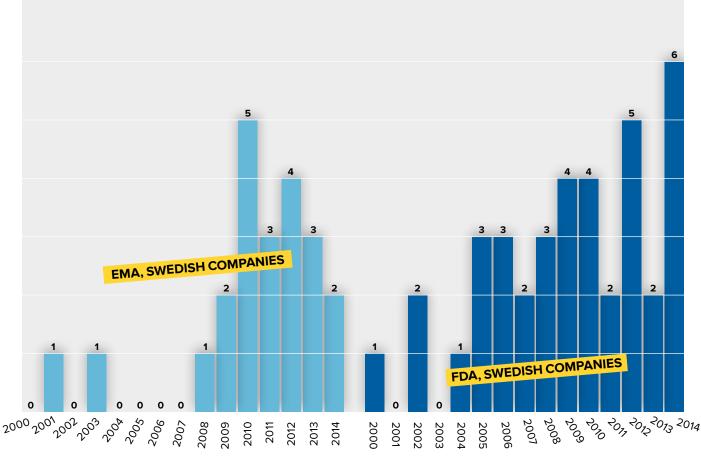
According to the drug development pipeline survey 2015, 42 of the projects in Phase I–III target an orphan indication. This is almost double the number of the 22 projects reported in 2014.

Since 2000, 60 orphan drug status designations have been granted in total to Swedish companies by the EMA and FDA. In 2014, seven Swedish companies received orphan drug designations granted by EMA and/or FDA:

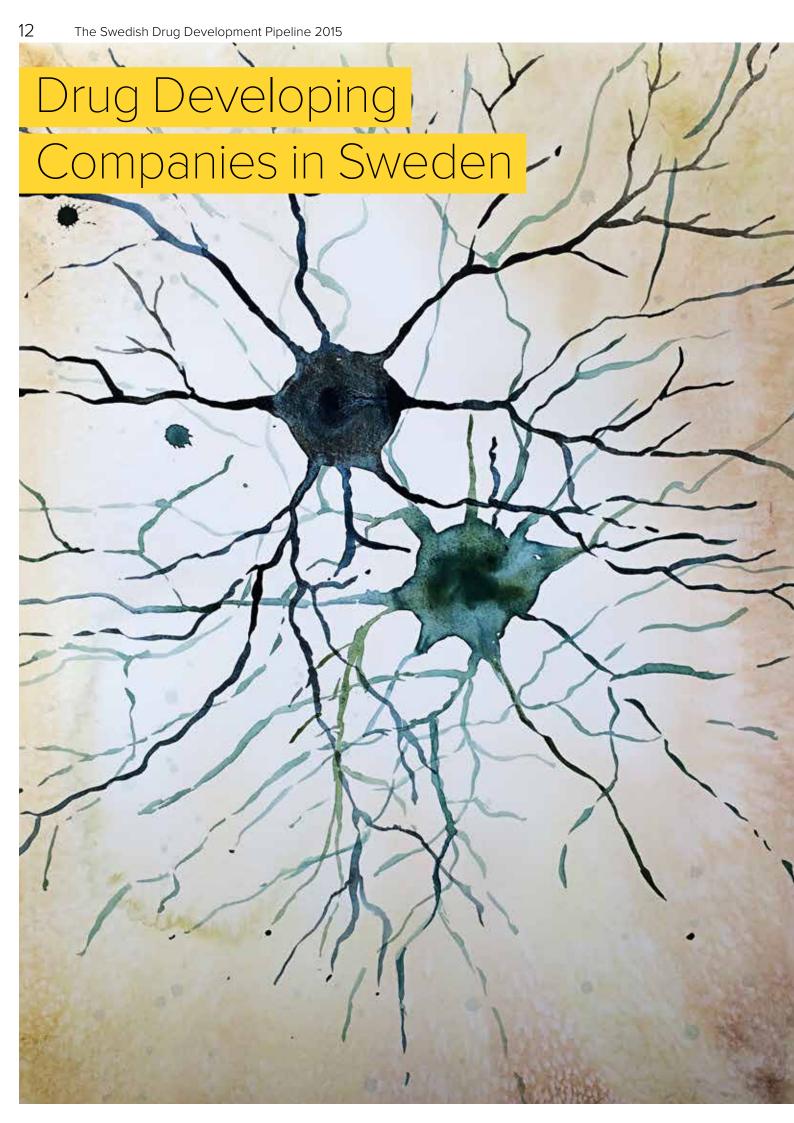
- ► A1M Pharma: use of recombinant human alpha-1microglobulin for treatment of pre-eclampsia.
- ► Active Biotech: use of quinolin substance for treatment of systemic sclerosis.
- ► Aprea: use of agent targeting p53 activity for treatment of ovarian cancer.
- ► Clanotech: use of anti-fibrotic and anti-angiogenic substance for prevention of scarring post glaucoma filtration surgery.

- ▶ Corline Biomedical: use of macromolecular conjugate of heparin sodium on a polymer backbone for prevention of ischaemia reperfusion injury associated with solid organ transplantation.
- ▶ iCell Science: use of ex-vivo-cultured human mesenchymal stromal cells for prevention of graft rejection following solid organ transplantation.
- ► OxThera: use of oxalobacter formigenes strain HC-1 for treatment of short bowel syndrome.

Note that Vivolux got orphan designation status from FDA in 2014 for the treatment of multiple myeloma, but moved its HQ to USA in the same year and is not included in this report.



Source: EMA, FDA, company web pages and Orphan Drug Report 2014, Evaluate Pharma.

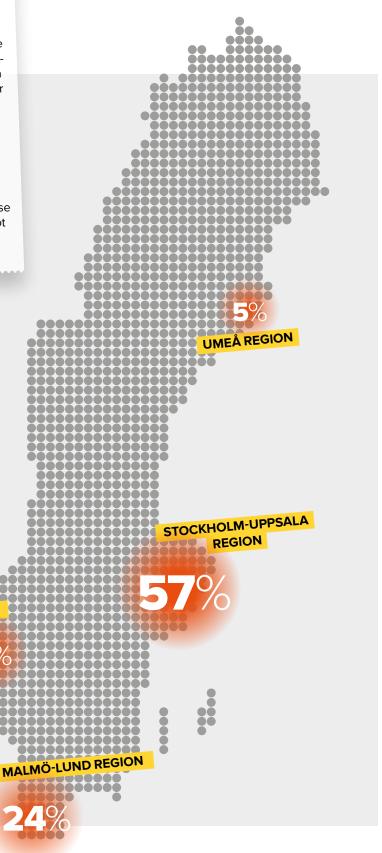


ASSOCIATION WITH AN INCUBATOR OR SCIENCE PARK

The Swedish drug developing companies

are centred in four geographical regions. The majority of the companies (57%) is located in the Stockholm-Uppsala region, followed by the Malmö-Lund region (24%), Gothenburg (14%) and Umeå (5%). More than half of the companies are associated with an incubator or science park. Karolinska Institutet Science Park in Stockholm, Medicon Village in Lund and Sahlgrenska Science Park in Gothenburg are the three major science parks. The incubators with most Swedish biotech and pharmaceutical companies are Lund Life Science Incubator, GU Ventures in Gothenburg and Uppsala Innovation Centre. Some companies are connected to more than one incubator or science park. Note that the incubators, for example, in the Umeå region, also host numerous research projects, but these are excluded from this report since they are not yet incorporated.

GOTHENBURG REGION



MANY MICRO-SIZED COMPANIES

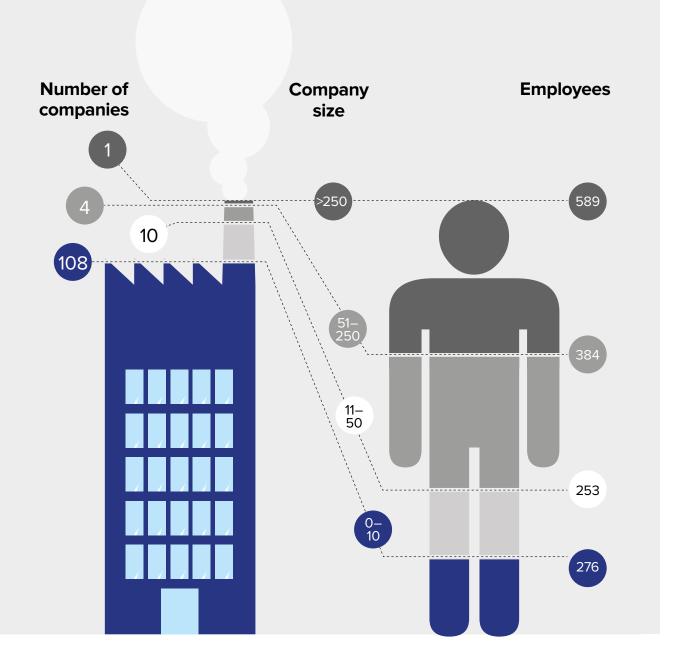
A total of 123 Swedish biotech and pharmaceutical companies with their head office in Sweden have been identified to be actively working with drug development. The company information was retrieved from the 2014 annual reports. Companies founded in 2015, are not included in the analysis, and will be listed in next year's report.

Together, the companies in this analysis have about 1500 employees on their payrolls in 2014 – that is 100 more than in 2013. Swedish Orphan Biovitrum, with 589 employees, is currently the only large research company in Sweden*.

Most companies, representing 88 % of those listed,

are micro-sized companies with 10 or fewer employees. Almost half of them (48%) have only 0–1 employees. The micro-sized companies add up to a 108 in total and employ 276 persons. Many of the micro-sized companies are so called "virtual companies", meaning that they have few employees in-house and a significant part of their R&D allocated to external consultants and specialized service providers.

* Since AstraZeneca's HQ is located in UK, they are not included in this report.



A VIRTUAL COMPANY STRUCTURE

The **59** companies that responded to this years survey have a combined workforce of 1160 employees. In addition, they engage 627 consultants or contractors counted as Full Time Equivalents (FTE). Within the R&D-functions of these companies, the ratio of consultants versus employees is high with the number of consultants almost matching the number of regular R&D employees (398 vs 445).

229 FTEConsultants in other areas

398 FTER&D Consultants

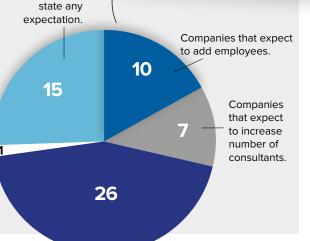
inhouse employee in other areas

715 FTE

445 FTER&D inhouse employee

OPTIMISTIC OUTLOOK FOR THE FUTURE

The majority of the 59 companies that responded to this years survey stated that they intend to increase their workforce throughout the next three years. This optimism spans all sizes of companies and 43 out of 59 companies want to increase the number of regular employees or the number of consultants. As many as 26 companies plan to increase both the number of consultants and the number of employees. Only one company is planning to decrease its workforce.



Companies that did not

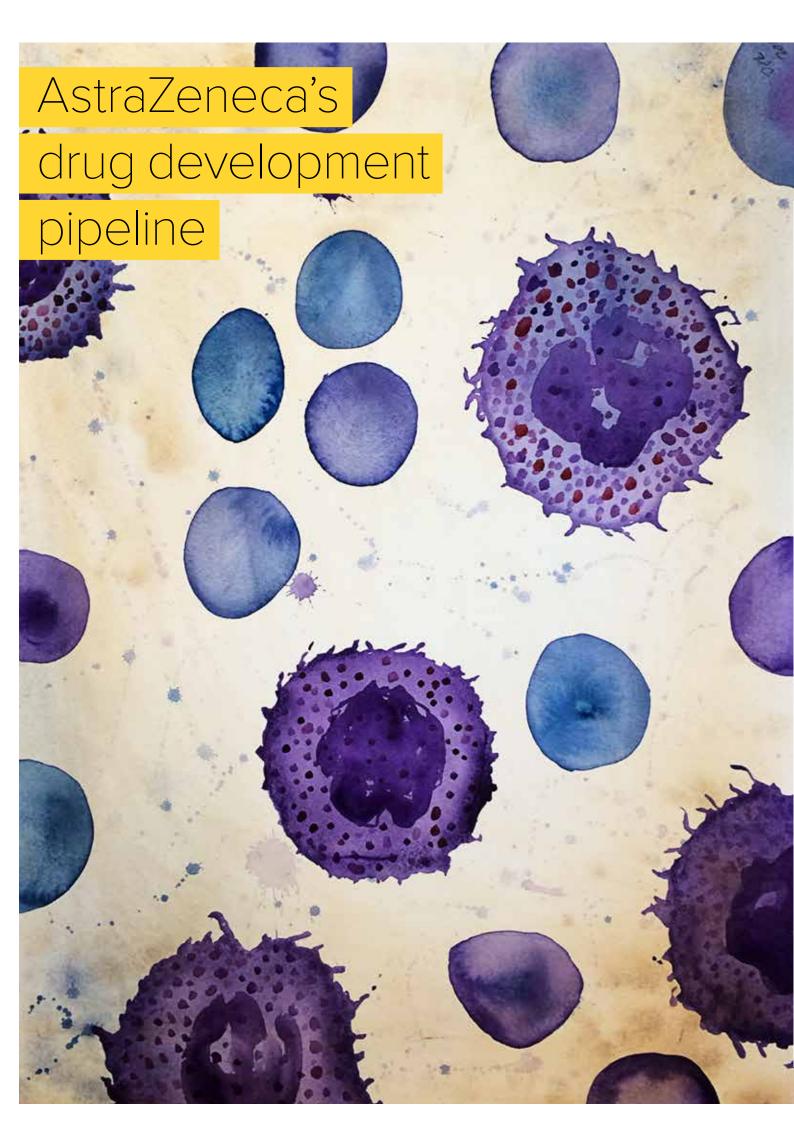
Source: Web based survey.

Companies

that expect to

decrease its workforce.

Companies that expect to both add employees and increase number of consultants.



ABOUT ASTRAZENECA

AstraZeneca is currently the only global pharmaceutical company with R&D function in Sweden. The company is not included in the analysis of the report since the HQ was placed in UK after the merger of Swedish Astra and British Zeneca in 1999. Nevertheless, the company has a strong presence in Sweden, and employs 6 200 people (end of 2014) working in research, manufacturing and marketing. AstraZeneca has three global strategic research sites worldwide, one of which is located in Mölndal, Gothenburg. The Gothenburg R&D site has 2 400 employees and almost 25 percent of the global 4,941 MUSD R&D investment was made in Sweden (2014).

AstraZeneca is engaged in Swedish academic research through several joint-research collaborations. The Karolinska Institutet/AstraZeneca Integrated Cardio Metabolic Centre was initiated 2013. It is AstraZeneca's most extensive contract with an academic institution through history. During the five-year initial contract period, AstraZeneca will contribute up to USD 100 million. The centre has nine open, integrated and collaborating research groups with a focus on both pre-clinical and clinical studies.

In the fall of 2015, AstraZeneca, the University of Gothenburg and Chalmers University of Technology entered into a new collaboration on advanced mass spectrometry equipment. In this way, industry and institutions jointly engage in ground-breaking

In May 2015, the company announced that a 285 million USD investment is to be made in a new high-technology facility for the manufacture of biopharmaceuticals. It will be located in Gärtuna, strategically chosen for its proximity to the site in Södertälje, which is one of the largest production sites for pharmaceuticals worldwide. The new facility will focus on filling and packaging of biopharmaceuticals, and is expected to deliver drugs to the company's clinical trial programs from the end of 2018.

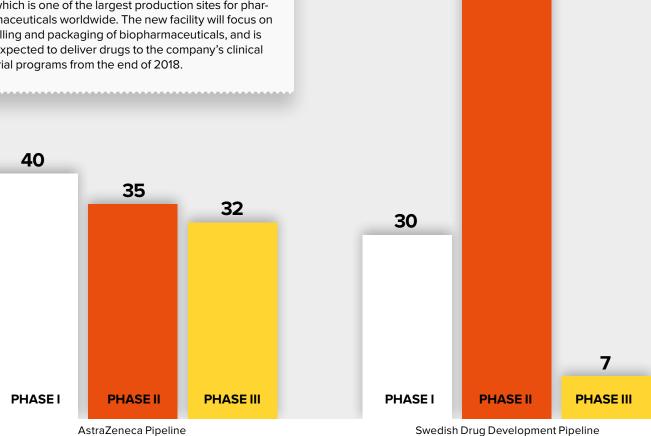
ASTRAZENECA'S DRUG DEVELOPMENT PIPELINE

Globally, AstraZeneca reported 118 projects in Phase I-III by the end of 2014. This is an increase of 33 projects compared to last year when 85 projects where reported. In addition, 16 projects were approved or launched. Most projects are within AstraZeneca's three strategic therapeutic areas: cardiovascular and metabolic diseases, oncology, and respiratory, inflammation and autoimmunity. AstraZeneca reported an additional 26 products in clinical trials that are line extensions. During 2014, nine projects were discontinued and 50 projects successfully progressed to their next phase. 16 projects were approved or launched.

In this report, we have chosen to make a comparison between AstraZeneca's and Sweden's pipeline. Interestingly, the size of the Swedish research companies' portfolio corresponds to a global pharma company's portfolio, but the distribution of projects between Phase I-III is different.

AstraZeneca's global pipeline has a 50-50 balance of small and large molecules, and approximately 30 large molecules are under clinical development. This is a similar result to the projects analysed from the 59 companies in clinical phase in this report, showing a 40-60 balance, with 30 large and 44 small molecules all together in the Swedish pipeline.

70



Swedish Drug Development Pipeline





Eight new companies, registered in 2014

Aptahem	Developing new effective antiplatelet drugs for treating and preventing diseases caused by blockage of blood vessels, such as heart attack or stroke.
Double Bond Pharmaceutical International	Developing first-in-class approaches for treatment of cancers, infections, autoimmune diseases and other life-threatening disorders.
Elastomics	Developing first-in-class medicines for liver and pulmonary fibrosis. Spin-off and fully owned subsidiary of YO Proteins.
Emeriti Pharma	Early drug discovery is done in the field of prodrugs, especially related to drugs on the market.
Gabather	Developing novel drugs to treat several diseases originating in the central nervous system (CNS). Key targeted diseases include anxiety, pain, and Alzheimers disease.
Glionova Therapeutics	Developing new therapies for cancer (glioblastoma).
GotImmune	Developing therapeutic products for the treatment of Helicobacter pylori.
Karessa Pharma	Developing products with clear competitive advantages in the therapeutic area of erectile dysfunction.



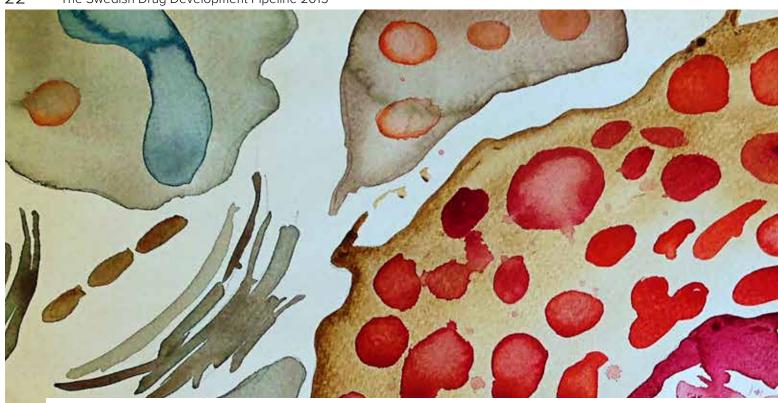
Top 10 list of largest companies by number of employees

	•	<u> </u>			•	•	
COMPANY	FTE 2014 (FTE 2013)	HEAD OFFICE	THERAPEUTIC AREA	OWNER	FOUNDED	TURNOVER 2014 (TSEK)	
Swedish Orphan Biovitrum	589 (546)	Stockholm	Rare diseases: inflam- mation, genetics & metabolism.	Public	1939	2646873	
Medivir	141 (153)	Stockholm	Infectious diseases: hepatitis C.	Public	1987	1 782 212	
Orexo	111 (106)	Uppsala	Specialty pharma and drug delivery technology.	Public	1994	608 876	
Oasmia Pharmaceutical	74 (72)	Uppsala	Nanoparticle formula- tions and drug- delivery systems based on well-established cytostatics	Public	1988	33 978	
Active Biotech	58 (61)	Lund	Immunology: multiple sclerosis and cancer.	Public	1983	10399	
Karo Bio	39 (40)	Stockholm	Nuclear receptors: neu- ropsychiatry, inflamma- tion, autoimmune dis- eases and cancer.	Public	1987	30 152	
Camurus	38 (35)	Lund	Drug-delivery systems for develop- ment of high-value therapeutics.	Public	2004	210 463	
BioInvent International	38 (47)	Lund	Antibody therapeutics: treatment of cancer.	Public	1997	50468	
Alligator Bioscience	28 (24)	Lund	Tumor targeted immuno-oncology.	Public	2000	49 671	
Bioarctic Neuroscience	27 (28)	Stockholm	Neurodegenerative diseases (alzheimer).	Private	2000	55 291	



Top 10 list of largest companies by turnover

	TURNOVER 2014 (TSEK)	HEAD	THERAPEUTIC			
COMPANY	(TURNOVER 2013)	OFFICE	AREA	OWNER	FOUNDED	FTE 2014
Swedish Orphan Biovitrum	2646873 (2 200 318)	Stockholm	Rare diseases (inflamma- tion, genetics & metabolism)	Public	1939	589
Medivir	1 782 212 (452 493)	Stockholm	Infectious diseases (hepatitis C)	Public	1987	141
Orexo	608876 (447019)	Uppsala	Specialty pharma and drug delivery technology	Public	1995	111
Camurus	210 463 (203 066)	Lund	Drug-delivery systems	Public	2004	38
Moberg Pharma	205 971 (158 457)	Stockholm	Skin diseases	Public	2006	18
Affibody Medical	57 623 (67 694)	Stockholm	Next generation biopharmaceuti- cals based on its technology plat- forms.	Public	2004	23
Bioarctic Neuroscience	55 291 (58 752)	Stockholm	Neurodegener- ative diseases (alzheimer)	Private	2000	27
BioInvent Bioscience	50 468 (82651)	Lund	Antibody ther- apeutics: treat- ment of cancer.	Public	1997	38
Alligator Bioscience	49671 (23392)	Lund	Tumor targeted immuno-oncol-ogy.	Public	2000	28
InDex Pharmaceuticals	45 160 (499)	Stockholm	Inflammatory and immunological diseases (Ulcera- tive colitis)	Private	2006	7



Companies A–Z

A1M Pharma	ClanoTech
Abera Bioscience	Corline Biomedical
Active Biotech	Cormorant Pharmaceuticals
AcuCort	DanPET
Adenovir Pharma	Dextech Medical
Affibody Medical	Diamyd Medical
Akinion Pharmaceuticals	Dilafor
Albireo	Dilaforette
Alligator Bioscience	Double Bond Pharmaceutical International
AlzeCure Foundation	Elastomics
Alzinova	Emeriti Pharma
Anamar	Empros Pharma
Apodemus	Eribis Pharmaceuticals
Aprea	Eurocine Vaccines
Aptahem	Follicum
Athera Biotechnologies	Gabather
Axcentua Pharmaceuticals	Galecto Biotech
Axelar	Glactone Pharma
Beactica	Glionova
Betagenon	Glucox Biotech
Bioarctic Neuroscience	GotImmune
Biocrine	Grespo
Biognos	Hansa Medical
Bioimics	Helicure
BioInvent International	iCell Science
Camurus	Idogen
Canimguide Therapeutics	Immun System I.M.S.
Canqura Oncology	ImmuneBiotech
Cantargia	Immunicum
Cebix	InDex Pharmaceuticals
Cellprotect Nordic Pharmaceuticals	Infant Bacterial Therapeutics
Cereno Scientific	Integrative Research Laboratories Sweden



QuiaPEG Pharmaceuticals

Companies A-Z

Isifer			
IsletOne			
Isofol Medical			
Kancera			
Karessa Pharma			
Karo Bio			
LIDDS			
Lipidor			
Lipigon Pharmaceuticals			
Medivir			
Moberg Pharma			
Molecules of Man			
Nares			
NeuroVive Pharmaceutical			
Northern Light Pharmaceuticals			
NovaSaid			
NovaSaid Noviga Research			
Noviga Research			
Noviga Research Oasmia Pharmaceutical			
Noviga Research Oasmia Pharmaceutical Omnio Healer			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera Parkcell			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera Parkcell Peptonic Medical			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera Parkcell Peptonic Medical Pergamum			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera Parkcell Peptonic Medical Pergamum Pharmalink			
Noviga Research Oasmia Pharmaceutical Omnio Healer Oncopeptides Oncorena Orexo OxThera Parkcell Peptonic Medical Pergamum Pharmalink Pharmalundensis			

PledPharma ProNoxis

Red Glead Discovery
Redoxis
Redwood pharma
Respiratorius
RPSP Phamra
Scandinavian Biopharma
Sixera Pharma
Spago Nanomedical
Sprint Bioscience
Strongbone
Strongbridge Biopharma
Swecure
Swedish Orphan Biovitrum
Synphora
TikoMed
Toleranzia
Umecrine
Umecrine Cognition
Umecrine Mood
Vicore Pharma
Viscogel
Wilson Therapeutics
WntResearch
XImmune
Xintela
Xspray Microparticles

List of 123 companies that actively develop novel drugs in Sweden. Based on company informating from December 31, 2011



Companies listed by development phase

PHASEI	
	0.11
Active Biotech	Other
Alligator Bioscience	Oncology
AnaMar	Inflammation
Aprea	Oncology
Aprea	Oncology
Athera Biotechnologies	Cardiovascular
Athera Biotechnologies	Cardiovascular
Betagenon	Diabetic/Metabolism
Betagenon	Cardiovascular
BioArctic Neuroscience	CNS
BioInvent	Infection
BioInvent	Oncology
BioInvent	Oncology
BioInvent	Oncology
CellProtect Nordic Pharma.	Oncology
Cormorant Pharmaceuticals	Oncology
Cormorant Pharmaceuticals	Oncology
Cormorant Pharmaceuticals	Oncology
Diamyd Medical	Diabetic/Metabolism
iCell Science	Transplantation
Immunicum	Oncology
Integrative Research Lab.	CNS
Oasmia	Oncology
Oasmia	Oncology
Pergamum	Dermatology
WntResearch	Oncology
Xspray	Oncology
	•

PHASE II	
Active Biotock	CNS
Active Biotech	CNS
Active Biotech	Other
Active Biotech	Oncology
Active Biotech	Oncology
Active Biotech	Oncology
Adenovir	Other
Affibody	Oncology
Akinion	Oncology
Albireo	Gastro-Intestinal
Apodemus	CNS
Axcentua	Oncology
Axelar	Oncology
Axelar	Oncology
BioArctic Neuroscience	CNS
BioInvent	Oncology
BioInvent	Oncology
Camurus	Endocrinology
Camurus	Oncology
Camurus	Oncology
Camurus	Pain
Dextech Medical	Oncology
Dextech Medical	Endocrinology
Dextech Medical	Oncology
Diamyd Medical	Diabetic/Metabolism
Diamyd Medical	Diabetic/Metabolism
Diamyd Medical	Diabetic/Metabolism
Dilafor	Other
Dilaforette	Infection
Dilaforette	Infection
Galecto Biotech	Other
Hansa Medical	Transplantation
Hansa Medical	Transplantation
Immunicum	Oncology



Companies listed by development phase

PHASE II CONTINUING	
InDex Pharmaceuticals	Gastro-Intestinal
Infant Bacterial Therapeutics	Gastro-Intestinal
Isifer	Immunology
Isifer	Other
IsletOne	Inflammation
IsletOne	Transplantation
Isofol	Oncology
Isofol	Oncology
Isofol	Oncology
LIDDS	Oncology
Medivir	Other
Moberg Pharma	Pain
NeuroVive Pharmaceutical	Cardiovascular
NeuroVive Pharmaceutical	CNS
Oncopeptides	Oncology
Orexo	Pain
OxThera Intellectual Property	Other
Peptonic Medical	Other
Pergamum	Dermatology
Pergamum	Dermatology
Pergamum	Dermatology
Pharmalink	Other
Pharmalink	Transplantation
Pharmalundensis	Other
Pharmanest	Pain
PledPharma	Oncology
PledPharma	Cardiovascular
Redwood Pharma	Other
Respiratorius	Oncology
RSPR Pharma	Inflammation
Scandinavian Biopharma	Infection
Synphora	Pain
TikoMed	Diabetic/Metabolism
Umecrine Mood	CNS
	•

PHASE III		
Active Biotech	CNS	
Camurus	CNS	
Double Bond Pharmaceutical	Oncology	
Immunsystem IMS	Other	
OxThera Intellectual Property	Diabetic/Metabolism	
Swedish Orphan Biovitrum	Other	
Swedish Orphan Biovitrum	Other	
	•	



Companies listed by therapeutic areas

CARDIOVASCULAR

Athera Biotechnologies

Betagenon

NeuroVive Pharmaceutical

PledPharma

CNS

Active Biotech

Apodemus

BioArctic Neuroscience

Camurus

Integrative Research Laboratories

NeuroVive Pharmaceutical

Umecrine Mood

DERMATOLOGY

Pergamum

DIABETIC/METABOLISM

Betagenon

Diamyd Medical

OxThera Intellectual Property

TikoMed

ENDOCRINOLOGY

Camurus

Dextech Medical

GASTRO-INTESTINAL

Albireo

InDex Pharmaceuticals

Infant Bacterial Therapeutics

IMMUNOLOGY

Isifer

INFECTION

BioInvent

Dilaforette

Scandinavian Biopharma

INFLAMMATION

AnaMar

IsletOne

RSPR Pharma

ONCOLOGY

Active Biotech

Affibody

Akinion

Alligator Bioscience

Aprea

Axcentua

Axelar

BioInvent

Camurus

CellProtect Nordic Pharmaceuticals

Cormorant Pharmaceuticals

Dextech Medical

Double Bond Pharmaceutical

Immunicum

Isofol

LIDDS

Oasmia

Oncopeptides

PledPharma

Respiratorius WntResearch

Xspray

PAIN

Camurus

Moberg Pharma

Orexo

Pharmanest

Synphora

TRANSPLANTATION

Hansa Medical

iCell Science

IsletOne Pharmalink

riiaiiiiaiiiik

OTHER

Active Biotech

Adenovir

Dilafor

Galecto Biotech

Immunsystem IMS

Isifer

Medivir

OxThera Intellectual Property

Peptonic Medical

Pharmalink

Pharmalundensis

Redwood Pharma

Swedish Orphan Biovitrum



The Swedish life science industry includes 1500 companies within pharma, biotech and medtech. Of these, around 800 are engaged in research and development programs in Sweden.

This report highlights the 123 identified companies with Swedish headquarters that actively develop novel drugs. Included you will find an overview of those companies, with statistics on turnover, number of employees and company lists sorted by name, by therapeutic area and by development phase. The pipeline analysis presented in the report focuses on the 58 companies that have projects in clinical phase I–III.

Key findings in the 2014 report include:

- ► There are currently 107 projects in clinical development, which is an increase of 15 projects compared to last year.
- ► Oncology and CNS are the therapy areas with most projects in clinical development.
- ► A higher number of clinical trials were conducted in Sweden compared to last year.
- ▶ 42 of the projects in Phase I-III target an orphan indication. This is almost double the number of the 22 projects reported in 2014.
- ▶ Almost 9 out of 10 companies are micro-sized businesses with 10 employees or less. These companies typically have a significant part of their R&D allocated to external consultants and specialized service providers.



The report has been published annually since 2006 and is compiled by SwedenBIO, the Swedish Life Science Industry Organization (www.swedenbio.se). Financial support has been obtained from VINNOVA, the Swedish Governmental Agency for Innovation Systems (www.vinnova.se).



