

# novo nordisk research & development



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800

active patent families

DKK 9.5

billion is our R&D spend

14.5%

of revenues are invested in R&D

4000

employees work in R&D

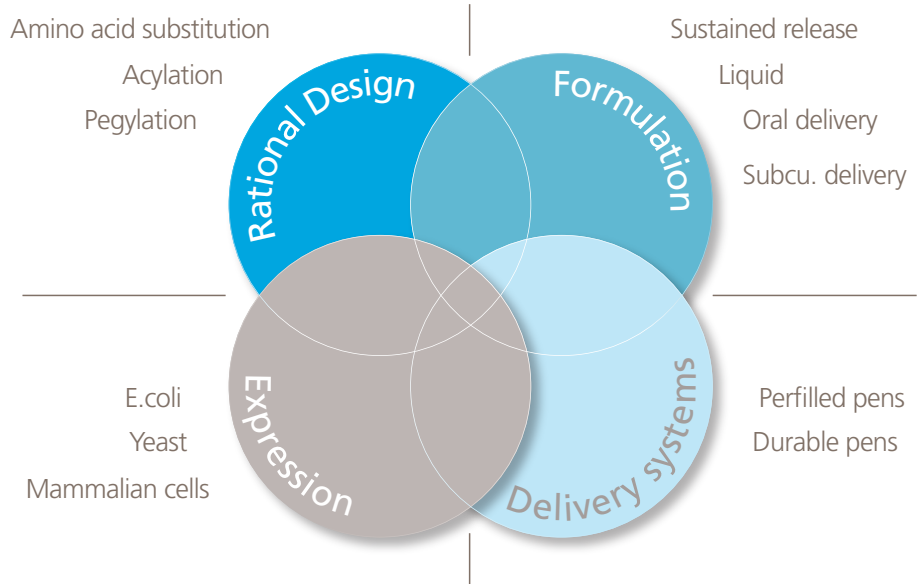
160,000 L

is the scale up to which we express proteins

## Passionate about proteins

Novo Nordisk is a protein-based, focused healthcare company. R&D is committed to not only engineering proteins into safe and effective therapies, but also developing new and improved delivery systems for people relying on the company's products.

This is a strategic route that Novo Nordisk pursues to further enhance user convenience and adherence to therapy. To this end R&D leverages a unique competence refined since 1923: developing proteins from molecule to market.



## Bioethics

Novo Nordisk are pioneers in the pharmaceutical industry in our practice of bioethics. We subscribe to high ethical global standards in research involving people, animals, human materials and gene technology. In addition, we play an active role in promoting bioethical standards in the pharmaceutical industry towards our key stakeholders.

In 2011, our bioethics performance received the highest score by the Dow Jones Sustainability Index for the eighth year in a row.

We use animals in research only when no other available or acceptable alternatives exist. Our global standards for housing and care of animals have been trend setting and represent the highest standards in the world.

Read more at:

[www.novonordisk.com/science/bioethics](http://www.novonordisk.com/science/bioethics)

We conduct clinical research only in countries where we intend to market our products. We ensure that illiteracy, poverty or cultural barriers do not prevent a person's full understanding of the issues involved in trial participation.

Read more at:

[www.novonordisk-trials.com](http://www.novonordisk-trials.com)



100++

R&D partnerships

22

injection systems have been launched by Novo Nordisk

1923

Novo Nordisk launched its first protein-based product

1985

Novo Nordisk launched the world's first insulin pen device NovoPen®

## Partnering for innovation

Our history tells us that creativity thrives in partnerships. We are dedicated to patient care and to our business, and we are open to a wide range of partnering models from in-licensing to sophisticated partnerships. Novo Nordisk works with a carefully defined process from opportunity identification to deal making to ensure optimal communication with our potential partners.

We share our passion for proteins in hundreds of academic and industry partnerships and welcome more opportunities to jointly develop new solutions within our therapeutic areas. Read more at: [www.novonordisk.com/science/partnering](http://www.novonordisk.com/science/partnering)

Diabetes and obesity:



Haemophilia and Inflammation:



## R&D as a workplace

Joining Novo Nordisk gives you life-changing opportunities and brilliant colleagues who are best-in-class. Cutting edge research, development and innovation are part of our way of working and we nurture a culture where people can make a difference.

We focus on your individual development and nourish your opportunities to grow in an international environment. You can participate in acknowledged international associations, networks and conferences when working with us. And you will experience an open and honest culture with a visible top management.

Also, R&D supports many bright students and graduate schools within life science R&D. We are currently co-financing around 90 PhD and PostDoc-students. We also provide scholarships to more than 40 master students finalising their thesis annually and finance post doc positions for up to two years for e.g. expat scientists returning to Denmark. Read more at:

[www.novonordisk.com/STAR](http://www.novonordisk.com/STAR)



# R&D organisation



### R&D locations:

- Copenhagen, Denmark
- Beijing, China
- Seattle, WA, US
- Princeton, NJ, US
- Bangalore, India

### CMR\* regions:

- North America
- Europe
- International Operations
- Japan/Korea
- China

\* Clinical Medical Regulatory

To know more about R&D in Novo Nordisk please visit [www.novonordisk.com](http://www.novonordisk.com)