Societal impact of Novo Nordisk Foundation grants

Highlights for 2017
Novo Nordisk Foundation

Funding public research for more than 90 years
Since 1927, the Foundation has awarded grants to researchers at universities and hospitals in Denmark and the other Nordic countries. Today, the Foundation supports research in biomedicine, biotechnology, general practice, nursing, art history and scientific objectives within innovation, education and outreach as well as humanitarian and social purposes.

Advocating public research
This brochure presents some highlights from the annual impact report showing the Foundation’s input of resources and the subsequent effects on research, health, and companies.
The Foundation’s vision is to contribute significantly to research and development that improves the health and welfare of people.

**Impact model**

- **Input**
  - Awarded grants and payout

- **Output**
  - Production of knowledge, education and patient-oriented activities

- **Outcome**
  - Dissemination and use of knowledge in academia, the public health sector and companies

- **Impact**
  - Use of knowledge in the public health sector and private companies
In 2017 the Foundation awarded DKK 5.8 billion and paid out DKK 1.3 billion. Almost 2,800 people were involved in the research activities.

The recipients of Foundation grants have published 18,149 publications since 2000. 85% of all research grants report on publications as well as other types of output and outcome.
Strategic changes to the grant-awarding policy embrace more scientific fields, changing the balance from endocrinology & metabolism and biochemistry & molecular biology to other scientific fields.


20% of journal articles from grant recipients within biomedical and health sciences and 23% of journal articles from all research grants are among the 10% most frequently cited worldwide in 2013–2015.

69% of the research grants deliver well-cited research.
53% of the diabetes guidelines and 18% of the cardiovascular disease guidelines in Denmark and elsewhere reference journal articles by recipients of Foundation grants. Research activity conducted by the recipients of Foundation grants and published in journals. Grant recipients have published 14,429 journal articles since 2000.

Publications reported by the grant recipients are well cited in guidelines from Denmark, the other Nordic countries, the United Kingdom and the United States and in guidelines by international organizations in 2000–2016.

Public research activity

Clinical guidelines

General practitioners

Patients

Dissemination and use of knowledge in the public health sector

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General practitioners continuously update their knowledge from multiple sources.

79% of general practitioners acquire knowledge about the treatment of diabetes and cardiovascular diseases from clinical guidelines; 65% acquire knowledge from journals, and 28% from journal articles.

74% of the general practitioners say that clinical guidelines have resulted in more uniform treatment of their patients.

23% of the general practitioners say that using clinical guidelines has improved the health of their patients, and 33% say that using guidelines has made treatment more effective.
In 2017, recipients of Foundation grants collaborated with 266 companies in 351 collaborations; 26% of the companies were Danish.

Grant recipients publish their research in scientific journals. Industrial researchers co-authored 11% of Foundation-funded journal articles.

1 of 16 funded journal articles cited in patent applications and patents. 2,600 citings of funded journal articles in more than 2,100 patent applications and patents.

Recipients of Foundation grants reported 115 patent applications and 13 patents between 2013 and 2017.
Creating knowledge
Improving health