

附錄二 德國再生資源推動機構 FNR (Fachagentur Nachwachsende Rohstoffe e.V.) 與萊布尼茨
農場動物生物學研究所 FBN (Leibniz Institute for Farm Animal Biology) 簡介

1. FNR (Fachagentur Nachwachsende Rohstoffe e.V.)
2. FBN (Leibniz Institute for Farm Animal Biology)



Farmer Hubert in person: The FNR appeals to the public using this beloved comic about the farmer and kids Paula and Leon.

Tasks

PROMOTION OF RESEARCH AND DEVELOPMENT

The FNR's main task is to support applied research and development in the field of sustainable development and use of renewable resources. It is our goal to develop promising processes and products to make them ready for the market. The FNR supports around 800 projects each year.

INFORMATION AND PUBLIC RELATIONS

The FNR is the first point of contact for all matters concerning renewable resources. Alongside specialist information, explanations and advice also play an important role. Regular events and industry and consumer expos round off the spectrum of activities.

EU AND INTERNATIONAL ACTIVITIES

As well as taking part in EU funded projects, the FNR is also involved in European and international committees and working groups that develop strategies for the sustainable use of biomass using innovative and efficient technologies.

international.fnr.de



FACHAGENTUR NACHWACHSENDE ROHSTOFFE E.V. (FNR) Agency for Renewable Resources

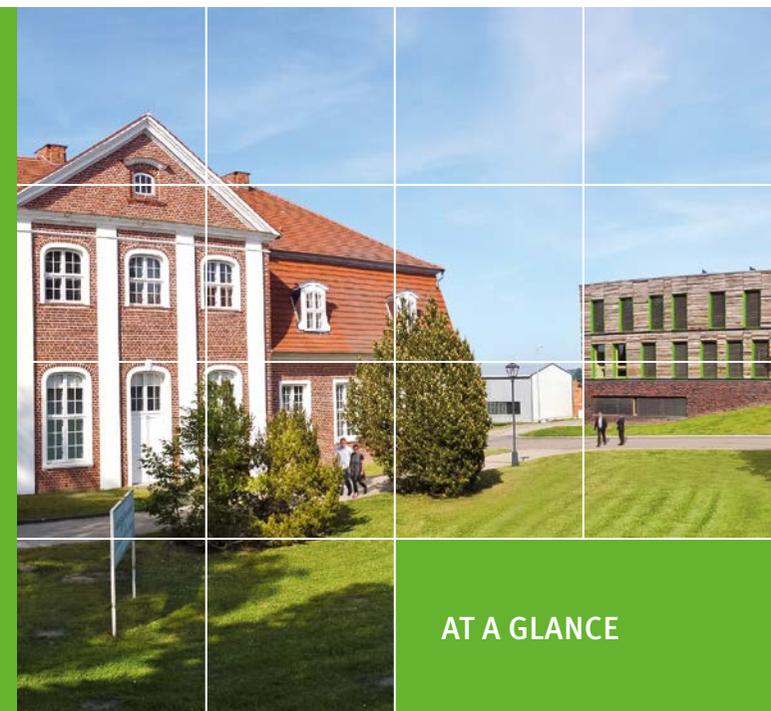
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Pictures: FNR/D. Peters

Design/Implementation: www.tangram.de, Rostock

Printed on 100 % recycled paper
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FNR 2017



AT A GLANCE



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The Importance of Renewable Resources

The supply of fossil resources such as coal, oil and natural gas is dwindling all across the globe. This situation has led Germany, like many other industrial countries, to look for alternative resources. Renewable resources – that is resources of plant and animal origin produced by agriculture or forestry – and their energetic or material use play an important role here. Not only do they contribute to sustainability, they also help protect our climate.

Agricultural Factors of Renewable Resources

The cultivation and the local and regional use of renewable resources encourage growth, increase value-added and create new jobs – especially in rural areas. They facilitate economic and societal participation and lead to an improvement in the quality of life for local people. Renewable resources are increasingly being used in industry, especially in the chemical industry, which also contributes to the creation of new jobs and security of existing ones.



Investing in the future: Bio energy villages like the Baden-Württemberg village of Untermäßigholderbach take pressure off the environment, strengthen local involvement and support long-term economic development.

'Renewable Resources' Funding Programme

In 2015, the Federal Ministry of Food and Agriculture (BMEL) announced the new 'Renewable Resources' funding programme. The Agency for Renewable Resources (FNR) has been entrusted with managing the programme.

Germany on its Way to a Bio-Based Economy

The 'Renewable Resources' funding programme is part of the government's new high-tech strategy to improve Germany's competitive position. It also supports the government's 'Policy Strategy on Bio-economy', which aims to create a resource-efficient economy that makes use of renewable resources.



Goals of the Programme

The programme is intended to support the further development of a sustainable bio-based economy. This involves developing innovative, internationally competitive bio-based products, as well as processes and technologies for their production. Furthermore, the programme also supports the development of concepts aimed at improving the sustainability of the bio-based economy, while taking society's expectations into account.



Agency for Renewable Resources (FNR)

The FNR was founded in 1993 as a government initiative intended to support research and development projects in the area of renewable resources. As a project managing organisation, the FNR answers to the Federal Ministry of Food and Agriculture (BMEL).

The FNR at a Glance

- Tasks:
 - Promotion of research and development as well as the use of renewable resources
 - Information and public relations
 - Co-operation on a European and international level
- Staff: over 85
- Founded: 1993
- Based in: Gülzow in Mecklenburg-Vorpommern



Come on in: The FNR often opens its doors to get visitors to the new FNR building excited about building with renewable materials.



FBN

STUDY, PROTECTION
AND APPLICATION





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From the Kaiser-Wilhelm Institute to the Leibniz Institute – our history

Today's Leibniz Institute for Farm Animal Biology was founded on 29 January 1993 under the name "Research Institute for the Biology of Farm Animals" (FBN) based in Dummerstorf and Rostock as a public-law foundation of the state of Mecklenburg-Vorpommern.



The institution therefore has an agricultural history. Back in 1939, the renowned **Kaiser-Wilhelm Institute for Animal Breeding Research** was inaugurated in Dummerstorf. After World War II, the Agricultural Science Academy of the GDR continued the site's tradition by establishing the **Institute for Animal Breeding Research** in 1952. In addition, the **Oskar-Kellner Institute for Animal Nutrition** was relocated from Leipzig to Rostock in 1954. Finally, the institute was combined with the Oskar-Kellner Institute in Rostock and the **Clausberg Institute for Animal Breeding and Husbandry** in 1970 to form the **Research Centre for Animal Production Dummerstorf-Rostock** that represented leading agricultural research in the GDR with this constellation until 1990. This institution employed around 1,300 people until it was dissolved under the Unification Treaty of 1990.

Following an evaluation by the scientific council in 1991, Dummerstorf became the site of the Institute for Animal Breeding as part of the State Research Institute for Agriculture and Fishery Mecklenburg-Vorpommern in 1992. Admission to the Leibniz Association followed in 1993.

The FBN Dummerstorf newly founded in 1993 uses most of the historic properties and carries on the tradition of the research site to this day. It is supported by the federation and the states through the non-profit foundation under public law.

In December of 2009, it was renamed to the **Leibniz Institute for Farm Animal Biology** by a unanimous decision of the Mecklenburg-Vorpommern state parliament.

Figures & facts

As of 2015

- › Budget approximately 20 million Euro, from the federation and the states
- › 200,000 m² total area
- › Thereof 12,300 m² space in buildings
- › 4,000 m² laboratory space
- › 10,000 m² barn space
- › Around 240 employees, thereof 61 in scientific occupations
- › 53 doctoral candidates are supervised
- › Around 240 employees, thereof 61 in scientific occupations
- › 53 doctoral candidates are supervised
- › Around 150 publications, most in peer-reviewed journals

Member of



PARTNERS

Leibniz Association
State Mecklenburg-Vorpommern
University of Kiel
University of Rostock

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The FBN supports the employees in the reconciliation of life, family and work.

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Archives Animal Breeding

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Founded in 1957 by Wilhelm Stahl as "Archiv für Tierzucht", the journal publishes original research papers, short communications, brief reports and reviews by international scientists on the topic of farm animal sciences in the English language.

These include contributions to quantitative genetics and molecular genetics, genetic diversity, farm animal husbandry, animal welfare, and the physiology and reproduction of farm animals. The journal is intended for scientist and students of farm animal sciences as well as practitioners in the field of animal production.

The switch of "Archives Animal Breeding" to the open access publication model was made in 2013. Since then all articles have been available free of charge under a creative common license (CC-BY 3.0/4.0).

"Archives Animal Breeding" is published by the renowned Copernicus Publications open-access publisher since 2015. This allows high-quality information about current developments in farm animal sciences to reach the specialist audience even more quickly.

All articles for as long as the journal has existed go through a consistent assessment by at least two experts (peer review process). As a member of the Committee on Publication Ethics (COPE) "Archives Animal Breeding" has obligated itself to maintain high scientific publication standards and was recognised for these efforts with the Directory of Open Access Journals (DOAJ) seal.

"Archives Animal Breeding" is extensively indexed (including DOAJ, SCI, CABI, SCOPUS, GOOGLE SCHOLAR) and has a journal impact factor important for bibliometric comparisons.

Website

> <http://archives-animal-breeding.net>

Archives Animal Breeding

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Animal welfare

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- Animal Welfare**

We conduct research on and with our livestock to increase knowledge of a variety of biological functions and the physiological and ethological needs and abilities of the animals and then derive solutions for sustainable and animal-friendly livestock farming. For this purpose, we carry out experiments with our cattle, pigs, chicken, goats, mice and fish, using modern housing facilities.

Our experiments on animals are designed to deliver meaningful results and take the welfare of the animals into account, which is a key concern of our research work. In addition, our experiments also help to improve the animal's well-being, as we develop insights that will harmonize the match between housing conditions and the animals' needs.

Understanding the needs of the animals in terms of nutrition, health, their behaviour, their perception and evaluation of the environment enables their individual, situational care. The areas animal health, animal behaviour and emotions are combined in the concept of animal welfare: When animals are healthy, able to behave normally and negative emotions can be avoided, then it can be assumed that the animals are reared in an animal-friendly manner, with good animal welfare status.



Experimental Animal Facilities

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 - > Knowledge and Technology Transfer
 - > Experimental Animal Facilities
 - > Experimental Animal Facility Cattle
 - > Experimental Animal Facility Pig
 - > Experimental Animal Facility Pygmy Goat
 - > Experimental Animal Facility Poultry
 - > Laboratory for Innovative Farm Animal Models (LIN)
 - > Experimental Animal Facility Aquaculture
 - > Tiertechnikum
 - > Experimental abattoir
 - > Scientific Documentation
 - > Library
 - > Veterinarian
- Archives Animal Breeding

The farm animals kept for testing correspond to the longer-term research needs of the projects for the program areas with their characteristics and are representative. Such animal models are kept for pigs, cattle, Pygmy goats, poultry and mice.

The administration and coordination of the test capacities for cattle, swine and Goats is realised centrally by the Animal Experimentation Group, ensuring the efficient use of personnel.

Ongoing management responsibilities include basic care and supply for the stock, comprehensive base data recording and transportation.



Experimental Animal Facility Cattle >



Experimental Animal Facility Pig >



Experimental Animal Facility Pygmy goats >



Experimental Animal Facility Poultry >



Experimental Animal Facility Aquaculture >



Laboratory for Innovative Farm Animal Models >



"Tiertechnikum" >



Experimental abattoir >



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