

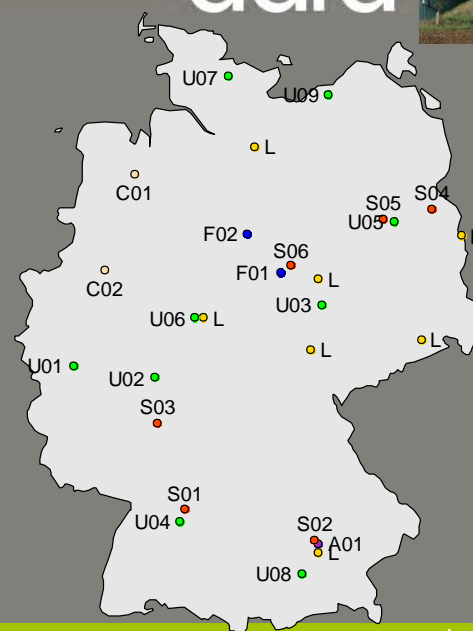
Biomaterials in Agricultural Research in Germany

dafa



Fibrous, starch, oil and protein plants are grown on more than 20% of the agricultural area in Germany for material or energetic use. In addition, crop residues and animal residues are used for conversion to energy. DAFA-members, i.e. the majority of publicly funded agricultural research institutes in Germany, conduct research on aspects of breeding, production, processing, conversion, sustainability and economics of agricultural bio-resources. A strong principle of research is the cascading use of field-grown biomass, giving priority to the production of food and feed.

Contact: <http://www.dafa.de>



ID	Organisation	City (State)	Topics, Keywords	Main aspect
A01	<u>Weihenstephan-Triesdorf University of Applied Science: Biomass Institute; Bioengineering Sciences</u>	Freising (BY)	renewable resources	Proc.
C01	<u>Chamber of Agriculture of Lower-Saxony</u>	Oldenburg (NI)	production, extension service, crop rotation, intercropping, silage	Prod., Sust.
C02	<u>Chamber of Agriculture of North Rhine-Westphalia</u>	Münster (NW)	production, extension service, crop rotation, intercropping, silage	Prod., Sust.
F01	<u>Julius-Kühn-Institute, Federal Research Centre for Cultivated Plants: Institute for Biosafety in Plant Biotechnology</u>	Quedlinburg (ST)	cup-plant <i>Silphium perfoliatum</i> ; molecular farming; Russian dandelion as rubber alternative, climate adaptation, long-term experiments, genetic resources, grassland margins for bioenergy	Breed., Sust.
F02	<u>Thünen Institute</u>	Braunschweig (NI)	biomass digestion, biotechnical conversion, chemo-catalytic conversion, downstream processing, bio-based polymers and materials, sustainability assessments; markets, biodiversity, society, short rotation coppices, wood, life-cycle assessment	Proc., Sust., Econ.
L	State agencies for agriculture: Bavarian State Research Center for Agriculture; Landesamt f. Ländliche Entwicklung, Landwirtschaft u. Flurneuordnung Brandenburg; Landesbetrieb Landwirtschaft Hessen; Landesforschungsanstalt f. Landwirtschaft u. Fischerei Mecklenburg-Vorpommern; Sächsisches Landesamt f. Umwelt, Landwirtschaft u. Geologie; Landesanstalt f. Landwirtschaft u. Gartenbau Sachsen-Anhalt; Thüringer Landesanstalt f. Landwirtschaft u. Ländlichen Raum	Freising (BY), Frankfurt/O (BB), Kassel (HE), Gülzow (MV), Dresden (SN), Bernburg (ST), Jena (TH)	production of renewable resources, extension service, crop rotation, species diversity in crop rotations	Breed., Prod., Sust.
S01	<u>Fraunhofer Institute for Interfacial Engineering and Biotechnology</u>	Stuttgart (BW)	recycling of waste materials to polyamids, cascading, biocatalysis, environmental technology, molecular biotechnology, Center for Chemical Biotechnological Processes	Proc.
S02	<u>Fraunhofer Institute for Process Engineering and Packaging</u>	Freising (BY)	bio-based additives, recycling	Proc.
S03	<u>Kuratorium für Technik und Bauwesen in der Landwirtschaft (Council for Technology and Construction in Agriculture)</u>	Darmstadt (HE)	biogas plants testing, efficiency, technical processes, certification, life-cycle analyses, data	Proc., Testing
S04	<u>Leibniz Centre for Agricultural Landscape Research</u>	Müncheberg (BB)	landscape processes	Sust.
S05	<u>Leibniz Institute for Agricultural Engineering and Bioeconomy - ATB Potsdam</u>	Potsdam (BB)	technology assessment and substance cycles, bioengineering, process chains, modelling, sustainability, biochar, conversion processes, biofuels, waste	Proc., Sust.
S06	<u>Leibniz Institute of Plant Genetics and Crop Plant Research, Dept. of Plant Breeding</u>	Seeland (ST)	genetics	Breed.

continued on overleaf

Symbols

A University of Applied Sciences

C Chamber of Agriculture, extension services

F Federal research institution

L Länder institution

S Specialized research institution (Fraunhofer, Leibniz, Helmholtz, other)

U University

Text and figures reflect the situation in 2019.

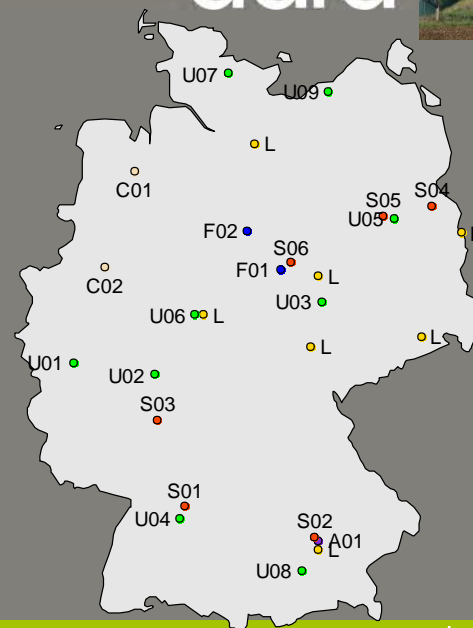
Biomaterials in Agricultural Research in Germany

dafa



Fibrous, starch, oil and protein plants are grown on more than 20% of the agricultural area in Germany for material or energetic use. In addition, crop residues and animal residues are used for conversion to energy. DAFA-members, i.e. the majority of publicly funded agricultural research institutes in Germany, conduct research on aspect of breeding, production, processing, conversion, sustainability and economics of agricultural bio-resources. A strong principle of research is the cascading use of field-grown biomass, giving priority to the production of food and feed.

Contact: <http://www.dafa.de>



continued from overleaf

ID	Organisation	City (State)	Topics, Keywords	Main aspect
U01	<u>Bonn University, Institute for Food and Resource Economics: Chair of Economics of Sustainable Land Use and Bioeconomy; Chair of Resource and Environmental Economics</u>	Bonn (NW)	economics	Econ.
U02	<u>Giessen University, Agricultural Sciences, Nutritional Sciences, and Environmental Management: Chair of Natural Product Research, Chair of Applied Entomology; Chair of Waste Management and Environmental Research; Chair of Microbiology of Recycling Processes</u>	Giessen (HE)	insects, drugs, insect biotechnology, biochemistry; micro-algae, waste management, matter cycling, pollutants, microbial communities	Prod., Proc., Sust.
U03	<u>Halle University: Science Campus for plant-based bioeconomy</u>	Halle (ST)	comprehensive	Breed., Proc., Sust., Econ.
U04	<u>Hohenheim University: Institute of Food Science and Biotechnology; Inst. of Crop Science: Dept. of Biobased Products and Energy Crops; Inst. of Agricultural Engineering: Dept. of Conversion Technologies of Biobased Resources</u>	Stuttgart (BW)	comprehensive	Breed., Proc., Sust.
U05	<u>Humboldt-University, Faculty of Life Sciences – Thae-Institute, Department of Agricultural Economics: Chair for Resource Economics, Chair for Agric. Value Chains</u>	Berlin (BE)	economics, value chain	Econ.
U06	<u>Kassel University, Faculty of Organic Agricultural Sciences, Section Crop Sciences: Chair for Grassland Science and Renewable Plant Resources</u>	Kassel (HE)	biochar, biofuel, energy, litter	Prod.
U07	<u>Kiel University, Faculty of Agriculture and Nutritional Sciences, Inst. of Crop Science and Plant Breeding: Chair for grassland and forage production, organic farming</u>	Kiel (SH)	bioenergy, biogas	Proc.
U08	<u>Munich Technical University, Hans-Eisenmann Forum: Chair of Chemistry of Biogenic Resources; Chair of Regenerative Energy Systems</u>	Munich (BY)	conversion, enzymes engineering, enzymatics, mutagenesis, biotransformation, fermentation, HTC, heterogeneous catalysis, biofuels; biogas conversion, decentralized biomass plants, biogas digesters, biochar	Proc.
U09	<u>Rostock University: Agrobiotechnology, Agricultural technology and processing technology, Aquaculture, bioenergy/biogas</u>	Rostock (MV)	biogas process, fermentation, logistics, value chain, substrate processing, life-cycle assessments	Proc., Econ.

Symbols

A University of Applied Sciences

C Chamber of Agriculture, extension services

F Federal research institution

L Länder institution

S Specialized research institution (Fraunhofer, Leibniz, Helmholtz, other)

U University

Text and figures reflect the situation in 2019.