



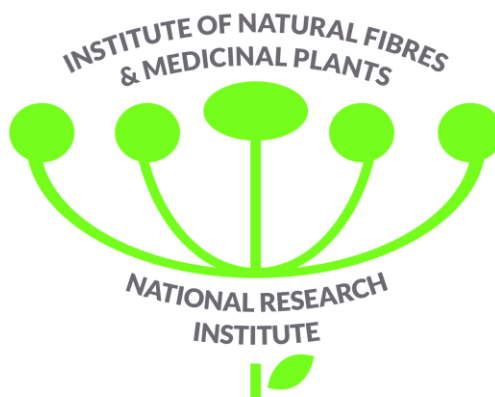
INSTYTUT WŁÓKIEN NATURALNYCH I ROŚLIN ZIELARSKICH Państwowy Instytut Badawczy

ul. Wojska Polskiego 71 B, 60-630 Poznań, Polska KRS 0000321899 NIP 7811830940 REGON 301027411
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OFFER

INSTITUTE OF NATURAL FIBRES AND MEDICINAL PLANTS NATIONAL RESEARCH INSTITUTE in Poznań



2025



INSTYTUT WŁÓKIEN NATURALNYCH I ROŚLIN ZIELARSKICH Państwowy Instytut Badawczy

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1. General information about the Institute

The Institute of Natural Fibres and Medicinal Plants, a National Research Institute, is an interdisciplinary research unit conducting comprehensive research on the extraction and processing of natural fibrous and herbal raw materials. The Institute conducts a range of national and international research projects; it collaborates extensively with numerous research institutions worldwide; and serves the needs of agriculture, environmental protection, construction, transport, the food industry, pharmacy, and medicine.

2. Historical outline and international position

The Institute has been operating under its current name since January 1, 2009, when the Institute of Medicinal Plants (IRiPZ) and the Institute of Natural Fibres (IWN) in Poznań merged. The forerunner of the IWN was the Linen Central Experimental Station (LCSD) in Vilnius, which was established on March 15, 1930. The IRiPZ was established on September 5, 1947, under the name of the State Scientific Institute of Medicinal Plant Raw Materials (subsequently the Institute of the Herbal Industry) in Poznań.

3. Scientific achievements and potential

The Institute has category A in the state evaluation of the quality of scientific activities.

The Institute employs qualified scientific and research staff, both experienced experts and young scientists, including full professors, habilitated doctors, doctors, and master's degree holders, who are specialists in biology, biotechnology, chemistry, agriculture, textiles, materials science, pharmacy, and medicine.

INF&MP-NRI has specialized laboratories and research departments (in the experimental and service scope) and developed research infrastructure in Poznań, Plewiska, Pętkowo and Stęszew; it has a technology transfer department, a scientific publishing house, as well as departments supporting the Institute's research and implementation activities.

In 2024, INF&MP-NRI employees published 51 scientific articles, including in national and international journals.



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4. Scope of services and research activities

a) Scientific research and consulting

Main scope of research and development:

- Agrobiology and Biotechnology: molecular biology, in vitro plant cultures, human cell cultures, bioprocessing.
- Breeding of new varieties of fiber and herbal plants, their agronomic techniques and preliminary processing; conservation breeding, and banking.
- Technologies for obtaining and processing natural fibers and their modifications for textile and non-textile applications.
- New applications for oil-producing varieties of fiber and herbal plants (dietary and medicinal products).
- Biocomposites made of thermoplastics/ biodegradable polymers with plant raw materials
- Chemical modification of lignocellulosic raw materials, polymers for special applications
- Processing of lignocellulosic biomass for energy purposes - biofuels
- The use of herbal plants and bacterial cultures in the production of biofeed
- Microbiological tests of raw materials, plant and beekeeping products and technical materials
- Composites based on lignocellulosic raw materials, bonded with unconventional binders
- Fire-retardant composites resistant to long-term exposure to high temperatures
- Nanotechnology - carbon nanotubes, polymer nanofibers, functionalisation of biomaterials with nanoparticles
- Flammability, biodeterioration of materials, bio- and fire retardants
- Comprehensive research on biologically active substances in terms of quality assessment, development and validation of analytical methods, and stability testing.
- Research on herbal plants and products, as well as plant-based medicinal products, cosmetics, dietary foods, and functional foods.
- Development of industrially contaminated areas for the cultivation of non-food plants.
- Production of plants, bioproducts, and seed material.

Consulting

- Providing opinions, expertise, consultations, and comprehensive agricultural advice on fiber and herbal plants and plant-based products for state and local government



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organizations and businesses, the Agricultural Advisory Center, and local advisory centers within the Institute's scope of activity.

b) Services and commercialization of knowledge

1 SERVICES IN ACCREDITED LABORATORIES

Flammability Laboratory



The Flammability Laboratory of INF&MP-NRI holds accreditation of the **Polish Accreditation Centre - the Certificate no. AB 225**.

- Accredited methods:
 - Testing the fire properties of floors: using the radiating plate method, ignitability with a single flame
 - Testing the ignitability of building products with a single flame
 - Testing of ignitability and flame propagation on flat textiles
 - Testing the ignitability and spread of flame on textiles - drapes and curtains
 - Testing the ignitability of upholstered systems: method A - cigarette, method B - match
- Analysis of combustion processes using the cone calorimeter method: ignition time, heat release rate, total heat released, combustion heat, mass loss rate, smoke generation (specific extinction), carbon monoxide and dioxide
- Determination of combustion process parameters by pyrolysis and combustion microcalorimeter method: ignition temperature, heat release rate, heat of combustion in a very short time for samples 1-50 mg.

Textile Laboratory

Textile Laboratory of INF&MP-NRI holds accreditation of the Polish Accreditation Centre - the Certificate no. AB 225.



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	<p>Methods certified by Polish Centre for Accreditation:</p> <ul style="list-style-type: none"> – Yarns - Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester acc. to PN-EN ISO 2062:2010 – Yarns - Determination of linear density (mass per unit length) by the skein method acc. to PN-EN ISO 2060:1997 – Flat textiles – Determination of maximum force and elongation at maximum force using the strip method acc. to PN-EN ISO 13934-1:2013-07 (fabrics), PN-EN ISO 2973-3:2023-11 (non-woven fabrics) – Flat textiles – Determination of mass per unit area acc. to PN-ISO 3801:1993 (woven fabrics), PN-P-04613:1997 (knitted fabrics), PN-EN ISO 9073-1:2023-11 (non-woven fabrics) – Flat textiles – Determination of number of threads in woven fabrics acc. to PN-EN 1049-2:2000 and number of stitches in knitted fabrics acc. to PN-EN 14971:2007 – Flat textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Determination of specimen breakdown acc. to PN-EN 14465:2005 + A1:2007 (upholstery fabrics), PN-EN ISO 12947-2:2017-02 – Flat textiles – Determination of fabric propensity to surface pilling, fuzzing or matting – Modified Martindale method acc. to PN-EN ISO 12945-2:2021-04, PN-EN ISO 12945-4:2021-04 – Flat textiles – Determination of permeability of fabrics to air acc. to PN-EN ISO 9237:1998 – Flat textiles – Solar UV protective properties – Method of test for apparel fabrics acc. to PN-EN 13758-1+A1:2007
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	Textile Laboratory
	<ul style="list-style-type: none"> – Bast fibers - Determination of linear density – Gravimetric method acc. to PN-EN ISO 1973:2022-03 – Bast fibers – Determination of indices at static tension acc. to PN-P-04676:1986 – Bast fibers – Determination of the impurities content acc. to the decree of the Minister of Agriculture and Rural Development of 5th May 2011 – Bast fibers - Determination of length acc. to BN-7511-16:1986, PN-ISO 6989:2000 – Yarns – Determination twist and of the direction of twist in yarns acc. to PN-EN ISO 2061:2015-09, PN-P-04652:1997 – Textiles – Determination of quantitative chemical analysis of fibers mixtures acc. to PN-P-04847... (series of the standards) – Textiles – Hygroscopicity acc. to PN-P-04635:1980 – Textiles – Ability to water sorption (drop method) acc. to JIS 1090:1990 – Flat textiles – Measurement of thermal resistance and water-vapour resistance under steady-state condition acc. to PN-EN ISO 11092:2014-11 – Flat textiles – Determination of stiffness acc. to PN-EN ISO 9073-7:2025-05 – Flat textiles – Determination of the recovery from greasing of a horizontally folded specimen by measuring the angle of recovery acc. to PN-EN ISO 2313-1:2021-12 – Flat textiles – Determination of dimensional change in washing and drying acc. to PN-EN ISO 5077:2011 – Flat textiles – Test for color fastness – Color fastness to rubbing acc. to PN-EN ISO 105-X12:2016-08 – Textiles – Determination of knitted / woven fabric weave – Microscope analysis of identification of textile fibers by ZEISS Axioscope 5 acc. to PN-P-04604:1972 – Scanning Electron Microscope (SEM) analysis (e.g. fiber identification, evaluation of cross section: shape, fiber diameter, area of cross section, evaluation of fibers surface, fibers damage and modification) – Analysis of the surface of various samples in terms of elemental composition and/or chemical characteristics performed using an EDS (Energy Dispersive Spectroscopy) system integrated with a scanning electron microscope (SEM)



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	<ul style="list-style-type: none"> – Determination of the surface free energy (SFE) of various samples using the Wilhelmy method (method based on the ability to wet the surface) or the Sessile Drop method (method of analyzing the shape of a droplet deposited on a surface)
	Laboratory of Physiological Influence of Textiles on Human Body
	<ul style="list-style-type: none"> – Determination of the physiological comfort parameters – Tests of clothing comfort user
	Laboratory of Chemical Evaluation and Ennobling of Fibrous Raw Materials
	<ul style="list-style-type: none"> – Determination of waxes and fats content in the fiber acc. to BN-7501-10:1986 – Determination of lignin content in the fiber acc. to BN-7501-11:1986 – Determination of cellulose content in the fiber acc. to PN-P-50092:1992 – Determination of hemicellulose content in the fiber acc. to BN-7529-02:1977 – Determination of pectin content in the fiber by the gravimetric method according to a method developed at INF&MP-NRI – Determination of degree of polymerization by viscosimetric method acc. to BN-7529-01:1986 – Determining the essential oil content acc. to Farmakopea Polska ed. VII (2006), pp. 325-326 – Determination of fiber content in varieties, strains, and bast yields of fibrous plants using the osmotic degumming method – Analysis of the thermal stability of semi-finished products and textile products using the TGA method – Evaluation of released gases during the pyrolytic decomposition of semi-finished products and textile products using the combined TGA-FTIR technique – Infrared examination of the surface layer of semi-finished products and textile products using the ATR/KBr-FTIR method – Flax and hemp microfibers: chemical modification service
	Laboratory of Processing Technologies of Fibrous Plant
	<ul style="list-style-type: none"> – Quality assessment of flax and hemp straw, including the determination of total and technical length, thickness as well as long and short fiber content acc. to PN-P-80103:1996, PN-P-80104:1997, PN-P-80105:1998, PN-P-80098:1999, PN-ISO 2370:1999 – Quality assessment of hemp and flax shives, including the determination of usable shive content, contamination, moisture and bulk density acc. to PN-P-80102:1996, PN-P-04601:1991 – In-situ examination of plant root systems



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	<ul style="list-style-type: none"> – Measurement of plant photosynthetic activity
	Laboratory of Natural Dyeing
	<ul style="list-style-type: none"> – Dyeing and testing colors from natural sources – plants and animals – Courses and workshops within the scope of natural dyeing techniques
	Department of Bioproduct Engineering
	<ul style="list-style-type: none"> – Development and production of composites based on thermoplastic/ biodegradable polymers and various types of fillers - natural fibre, nanofillers, dyes – Testing the resistance to mould fungi and soil microorganisms of technical materials for institutions and companies in the transport, construction, packaging and textile industries – Assessment of purity and microbiological activity of raw materials, plant semi-finished products, dietary supplements, food products, beekeeping and cosmetic preparations – Testing of flammability and fire properties for the certification of construction products, including floor coverings, textile products (curtains, drapes, blinds), upholstered systems – Comprehensive fire safety characteristics of materials using a cone calorimeter, pyrolysis and combustion microcalorimeter - flammability, heat release, smoke generation, toxicity of combustion products; including fire-resistant materials – Prototyping of products using the 3D printing method – Research and analysis of rheological properties of polymers and composites
	Laboratory of Microbiology
	<ul style="list-style-type: none"> – Testing the resistance and microbiological activity of lignocellulosic raw materials, textiles, composites, and plastics – Evaluation of the microbiological purity of fabrics and their antimicrobial properties – Evaluation of the biological activity of substances of natural and synthetic origin on selected groups of microorganisms – Detection of pathogenic microorganisms and toxin-producing moulds in raw materials and herbal medicines – Evaluation of the microbiological purity of usable surfaces, production equipment, air, water, and personnel in medicinal product factories – Expert opinions: <ul style="list-style-type: none"> - Raw materials, herbal medicines, dietary supplements - antimicrobial activity - Bee products - chemical composition, biological properties, therapeutic activity, dosage, and adverse effects



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	Laboratory of Waste Management - Bioeconomy Department
	<ul style="list-style-type: none"> – Determination of the heat of combustion and calorific value of solid and liquid substances. – Determination of the energy value of biomass. – Determination of energy yield from 1 ha of crop. – Popular science lectures on the cultivation and processing of energy crops and agricultural biomass.
	Laboratory of Silkworm Breeding and Mulberry Cultivation - Bioeconomy Department
	<ul style="list-style-type: none"> – Know-how of breeding the mulberry silkworm (<i>Bombyx mori</i> L.). – Technology of cultivating mulberries (<i>Morus alba</i> L.) for various purposes, including herbal, energy, and silk production. – Sale of mulberry silkworm (<i>Bombyx mori</i> L.) cocoons. – Educational workshops on silk production.
	Laboratory of Plant In Vitro Culture – Biotechnology Department
	<ul style="list-style-type: none"> – Development of micropropagation protocols for fiber and medicinal species. – Propagation of plant material, including provided materials, and production of plantlets i. a.: <i>Cannabis sativa</i> L., <i>Linum usitatissimum</i> L., <i>Stevia rebaudiana</i> Bertoni, <i>Salvia</i> sp., <i>Epilobium angustifolium</i> L., <i>Valeriana officinalis</i> L., <i>Echinacea purpurea</i> L., <i>Urtica dioica</i> L. <i>Whitania somnifera</i> (L.) Dunal.
	Laboratory of Agrobiology – Biotechnology Department
	<ul style="list-style-type: none"> – Assessment of the qualitative and quantitative composition of plant regenerative and protective biopreparations under stress conditions – Macroscopic and microscopic assessment of plant material after exposure to endogenous and exogenous components/substances in vitro/ex vitro – Assessment of herbal seed germination parameters under the influence of biostimulants.
	Department of Breeding and Botany
	<ul style="list-style-type: none"> – Taxonomic certification of herbal raw materials – Training for seed inspection staff in conducting official field qualifications of fiber and herbal plants. – Educational and didactic workshops in the INF&MP botanical garden. – Training for employees of agricultural advisory centers in the field of botany and breeding of fiber and herbal plants.



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	Department of Useful Plant Agronomy
	<ul style="list-style-type: none"> – Trainings on methods of cultivation and protection of fibrous and medicinal plants – Trainings for WIORIN Inspectors - qualifiers of seed plantations of flax and fiber hemp – Evaluation of the effectiveness and phytotoxicity of plant protection products in the cultivation of fibrous and medicinal plants – Testing of plant resistance to fungi of the genus <i>fusarium</i> (under laboratory, pot and field conditions)
	Department of Stem Cells and Regenerative Medicine
	<ul style="list-style-type: none"> – Assessment of the biocompatibility of materials using <i>in vitro</i> models. – Evaluation of the cytotoxicity of substances and chemical compounds conducted using <i>in vitro</i> models. – Assessment of the bioavailability of nutrients and pharmaceuticals using <i>in vitro</i> models. – Sorting of cells for cell culture and molecular analyses.
	Department of Pharmacology and Phytochemistry
	<ul style="list-style-type: none"> – Qualitative and quantitative analysis of active substances in plants using the following methods: HPLC, UPLC, GC, ASA, spectrophotometry and densitometry. – Phytochemical analysis of plant substances and their products and herbal medicinal products, including standardization of plant substances, identification and confirmation of the identity of plant substances, analysis of related substances and impurities in active substances, identification of metals harmful to health and heavy metals, identification of essential oils and fatty substances, physicochemical tests of plant substances and fatty acid profile testing. – Product stability testing. – Testing of pharmaceutical raw materials and medicinal products for compliance with pharmacopoeial requirements and specifications. – Development of analytical methods and their validation. – Issuing opinions on the qualification and safety of use of foodstuffs requiring notification to the Chief Sanitary Inspector, such as dietary supplements and foodstuffs for special medical purposes (Basis of activity: Regulation of the Minister of Health of 23 March 2011 (Article 31, paragraph 6 of the Act of 25 August 2006 on Food Safety and Nutrition, Journal of Laws of 2010, No. 136, item 914, No. 182, item 1228 and No. 230, item 1511)). – Issuing opinions on the safety of using various plant raw materials and their products in food. – Cooperation with the Chief Sanitary Inspectorate and the European Commission's working group on novel foods in the field of food safety assessment and qualification of novel foods.



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	Department of Seed Research and Processing
	– Production of linseed, hemp and <i>Camelina sativa</i> seed oils

3. RESEARCH INFRASTRUCTURE

Research infrastructure database available on the websites:

<https://www.iwnirz.pl/oferta>

<https://www.iwnirz.pl/krajowy-plan-odbudowy>

4. SALES PROGRAMS

POLISH HEMP PROGRAM <https://programkonopny.pl/>

1. Sales of sowing seed

We offer for sale high quality elite and qualified sowing seed of industrial hemp varieties Białobrzeskie, Tygra, Henola and Rajan.

2. Contracting

As part of the Polish Hemp Program, we offer farmers the opportunity to grow Polish varieties of hemp for sowing seed based on a contract agreement concluded with the Institute of Natural Fibres and Medicinal Plants.

3. Products and services

We offer high quality food products and industrial products for sale. Our highly qualified team of specialists providing laboratory services is at your disposal.

4. Hemp varieties

We offer four varieties – Białobrzeskie, Tygra, Henola and Rajan. All four varieties were bred at the Institute of Natural Fibres and Medicinal Plants.

5. Hemp Cultivation

Our team gathers the best experts in growing fibrous hemp varieties of IWNIRZ in Poland. We encourage you to read our guide and contact us, if you want to have a good yield.

6. Purchase of technology



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We offer technologies, know-how, patented solutions developed at the Institute of Natural Fibres and Medicinal Plants for the hemp processing and use of hemp fibre.

Chief of PHP: Witold Czeszak M.Sc.



POLISH HEMP PROGRAM
INSTITUTE OF NATURAL FIBRES AND MEDICINAL PLANTS
NATIONAL RESEARCH INSTITUTE

CONTACT



HERBAL PROGRAM

We currently offer 21 varieties of herbs bred at the Institute.

The program offers the production and sale of certified herbal seed to processing companies and individual agricultural producers. The program also aims to popularize knowledge about medicinal and spice plants, disseminate the results of scientific and implementation research conducted at the Institute, and provide substantive support and advice to local agricultural producers.

The implementation of the Herbal Program aims not only to promote herbalism in Poland, but above all, to provide professional support for the entire industry and increase the availability of high-quality seed from native herbal varieties on the domestic market, guaranteed by the Institute of Natural Fibres and Medicinal Plants in Poznań.



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SEEDLING PRODUCTION

The Institute processes orders for the production of seedlings using micropropagation methods, including *Cannabis sativa* L., *Linum usitatissimum* L., *Stevia rebaudiana* Bertoni, *Salvia* sp., *Epilobium angustifolium* L., *Valeriana officinalis* L., *Echinacea purpurea* L., *Urtica dioica* L., and *Whitania somnifera* (L.) Duna.

Seedlings of our own plant varieties, obtained using traditional propagation methods, are also available for sale.

2. CONFERENCE ROOM RENTAL

The Institute offers conference rooms for rent and the organization of conferences, scientific symposia, and training sessions. It offers two rooms: the COLOSEO (amphitheater) for 200 participants and the WRZOSOWA for 40 participants. The rooms are air-conditioned, fully equipped, and offer Wi-Fi and LAN access.

The Institute is located within the park complex around Lake Rusalka, bordering the beautiful Sołacki Park. It is located just 4 kilometers from the city center and 3 kilometers from the Poznań International Fair.



<https://www.iwnirz.pl/oferta/wynajem-sal-konferencyjny>

3. OUR PRODUCTS

FOOD PRODUCTS
<p>OLEJ LNIANY DO DIETY DR. BUDWIG w pojemnościach 0,250ml,500ml,1l</p> <p>OLEJ KONOPNY 250ml</p> <p>OLEJ RYDZOWY 250ml</p> <p>KASZKA LNIANO -OWSIANA z złotych nasion</p> <p>KASZKA LNIANO-OWSIANA z brązowych nasion</p>



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	<p>KASZKA LNIANA Z ODOLEJONYCHZMIELONYCH brązowych nasion lnu Bezglutynowa</p> <p>SIEMIE LNIANE ze złotych nasion</p> <p>SIEMIE LNIANE z brązowych nasion</p> <p>LEN MIELONY 100g</p> <p>LEN MIELONY 200g</p> <p>BOFLAX LEN MIELONY z brązowych nasion 2x220g</p>
	COSMETIC PRODUCTS
	<p>KREM KANABIA z olejem konopnym</p> <p>KREM LINUVELLA z olejem lnianym</p> <p>KANABIA KREM DO RĄK</p> <p>KANABIA GREEN balsam do ciała</p> <p>MASŁO DO CIAŁA</p>
	PHARMACEUTICAL PRODUCTS
	<i>Oleum Lini virginale</i> (Olej lniany pierwszego tłoczenia) – substancja czynna do farmacji (API)
	INDUSTRIAL/COMMERCIAL PRODUCTS
	<p>Włókno lniane czesane</p> <p>Sznurek konopny 1 kg</p> <p>Sznurek konopny 0,5 kg</p> <p>Sznurek lniano-konopny 1 kg</p> <p>Sznurek lniano-konopny 0,5kg</p> <p>Sznurek kolorowy lniany pleciony (szpulka)</p> <p>Sznurek biały (szpulka)</p> <p>Mata lniano-konopna dla zwierząt</p>



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SAMPLE SALES PRODUCTS



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Kokony jedwabnika 10 szt. białe



Kokony jedwabnika 10 szt. żółte



Kokony jedwabnika 20 szt. białe

4. STATIONARY AND ONLINE STORE

<https://www.iwnirz.pl/sklep-internetowy>

5. SCIENTIFIC PUBLISHING HOUSE

For 75 years, the Institute has been the publisher of the scientific journal HERBA POLONICA (70 points according to the Ministry of Science and Higher Education). According to the SCUPUS category, the journal's scope covers primarily areas of agricultural and biological sciences (plant sciences, ecology, taxonomy), medicine (alternative and complementary medicine), and pharmacology, toxicology, and pharmaceuticals (pharmacology).

<https://herbapolonica.pl/>

6. Examples of implemented projects and achievements

	INN-PRESSME (Open INNOvation ecosystem for sustainable Plantbased nano-enabled biomaterials deployment for packaging, transport and consumer goods); Development and implementation of biomaterials and making nanotechnology processes available to companies and users to move from laboratory validation (TRL 4) to prototyping in industrial environments (TRL 7). HORIZON 2020 Program.
	NATURTRUCK. Development of a biocomposite from natural raw materials with improved fire and temperature resistance for the production of truck interior parts. The project uses osmotically debonded hemp fiber. 7th FP EU, SME-2013-1: Research for SMEs.
	FLAXMOW. Innovative flax harvesting and processing technology into monofilament fiber using new technology is being conducted using modernized combine harvesters. National Center for Research and Development program.
	EKOHEMPKON. The use of fibrous hemp in the agricultural remediation of post-mining sites. New method for degraded land in the Konin KWB area using hemp



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	cultivation. LIFE+ Programme. EU - LIFE+ Financial Instrument and the National Fund for Environmental Protection and Water Management.
	MAGIC. Marginal areas for industrial crop cultivation: turning a problem into an opportunity. HORIZON 2020 Program.
	HALOSYS. Integrated bioremediation system - biorefining using halophyte species. ERA-NET FACCE SURPLUS 2 Program.
	ONKOKAN, INNOMED. Development of technology for extracting cannabinoids from low-THC cannabis as a treatment aid for oncology patients. National Centre for Research and Development (NCBiR) program funded by the Innovative Economy Operational Programme under the European Regional Development Fund. 2014-2018.
	EPIMAN PLUS. Scale-up of production of a dietary supplement for acne-prone individuals, based on fireweed. "Innovation Incubator 4.0" program under the Smart Growth Operational Program 2014-2020.

<https://www.iwnirz.pl/projekty/projekty-miedzynarodowe>

<https://www.iwnirz.pl/projekty/projekty-krajowe>

7. INTERDISCIPLINARY ACTIVITY

The activity of our Institute's employees is disseminated and published in the tab „Aktualności” (<https://www.iwnirz.pl/aktualnosci>)

8. CONTACT

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