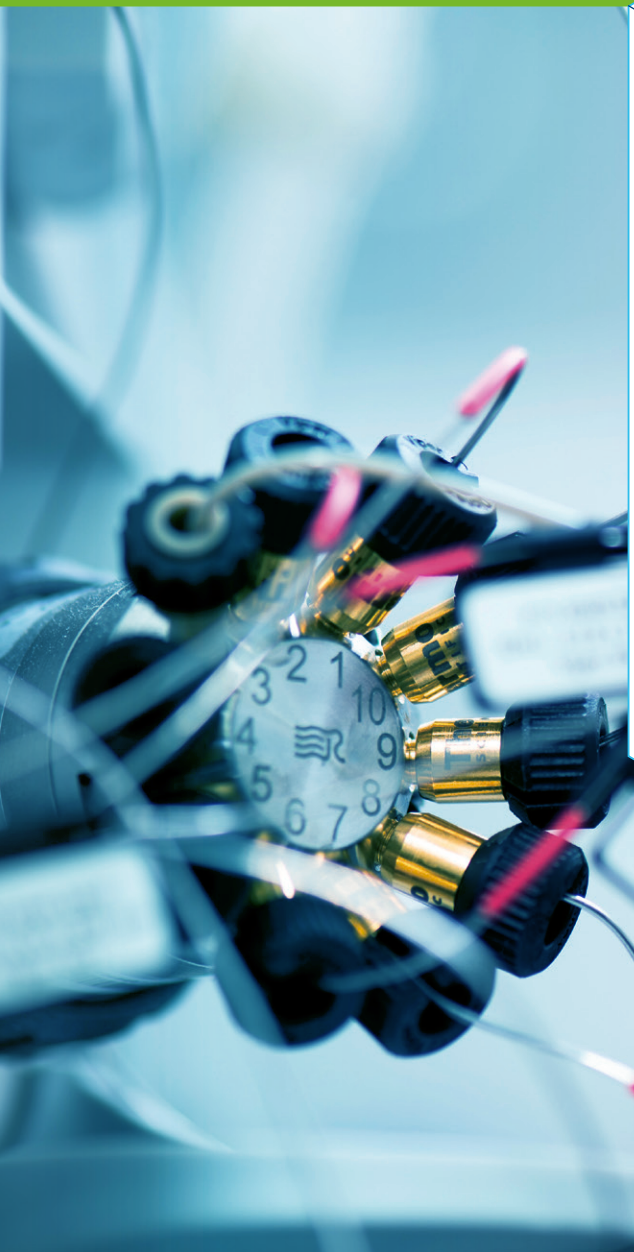
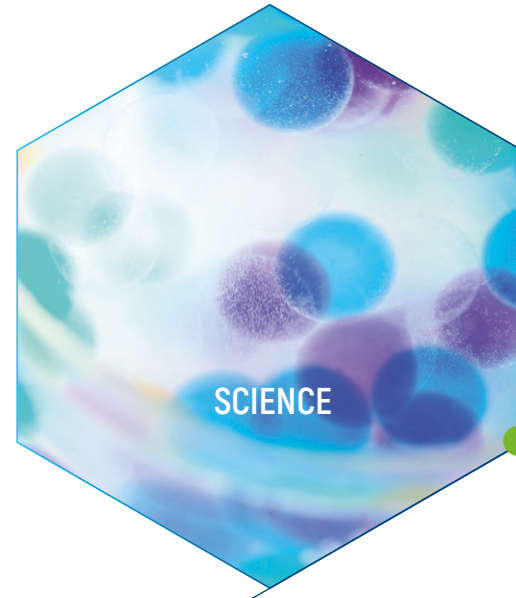
University of Warsaw
Biological and Chemical
Research Centre

UNIVERSITY
OF WARSAW



SCIENCE
FOR BUSINESS
AND ENVIRONMENT

www.cnbch.uw.edu.pl



CNBCh UW
Innovation for business

CNBCh UW
Research and Development Office

e-mail: wspolpraca@cnbc.uw.edu.pl
phone: +48 22 55 26 711

www.cnbch.uw.edu.pl

OFFER

We cooperate and provide services in the following areas:

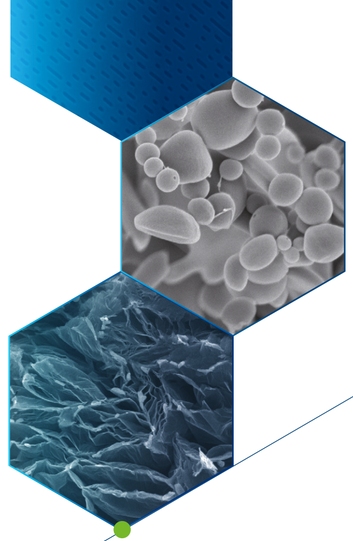
- advance investigation of chemical and biological substances regarding their structure, content and properties (including measurements with accordance to ISO/IEC 17025);
- establishing modern, efficient processes of organic synthesis;
- environmental expertise, including i.a.: mycological expertise, monitoring of water quality and biological diversity of the environment, vegetation inventory, creating maps and plans of environmental systems;
- simulation of protein molecular dynamics, designing new drugs, testing their bio-distribution and metabolism by isotopic and optic imaging techniques;
- designing and establishing new detectors, bio-detectors and electrode materials, as well as performing precise electrochemical measurements;
- establishing advance materials, designing a novel energy sources and methods of its storage (accumulators and batteries, fuel cells) and new methods of electro-trash recycling;
- testing the relationship between the biopolymer structure and its macroscopic properties, using physiochemically modified proteins as bionanomaterials;
- testing the physiochemical phenomena occurring at the borders of phases, testing the processes of catalysis and establishing unique catalyzers of chemical processes;
- radiochemical synthesis, including the enzymatic synthesis of aromatic and aliphatic amino acids and biogenic amines tagged with the hydrogen isotopes;
- research on phylogenesis, evolution, biogeography and taxonomy of organisms and designing methods of molecular identification;
- providing incubational space for companies carrying out projects from the border between biology and chemistry;
- sharing the power of the computing cluster;
- renting conference and seminar rooms with full technical facilities;
- carrying out research and development projects funded by national and EU funds.

- Innovative, interdisciplinary studies in the area of bio-chemical studies
- Innovative projects, carried out in a cooperation with business
- Modern infrastructure within a 200-years of science tradition of the Warsaw University

RESEARCH EQUIPMENT

CNBCh UW's scientific potential includes excellence in science supported by the most up-to-date research equipment, among others:

- X-ray Diffractometer System Agilent SuperNova;
- Atomic Force Microscope Bruker Dimension Icon;
- High Precision Mass Spectrometer Nu Instruments with Multi-Collector;
- Zeiss FIV-SEM Crossbeam Microscope;
- Transmission Electron Microscope FEI Talos with EDS detector;
- Near Ambient Pressure X-ray Photoelectron Spectrometer (NAP-XPS) SPEC;
- PET/SPECT/CT Carestream Albira imaging system for small animal research;
- Eckert & Ziegler Modular-Lab for radiopharmaceuticals synthesis;
- Thermo Scientific Orbitrap Fusion Mass Spectrometer;
- NMR spectrometer Agilent 800 MHz;
- NMR Agilent 400 MHz with autosampler;
- Activo-P11 Automated Peptide Synthesizer;
- Scribner Associated 850e Fuel Cell Test System;
- UHPLC Agilent with mass spectroscopy detector and Orbitrap;
- Delta V Isotope Ratio Mass Spectrometer;
- Potentiostat/Galvanostat with impedance spectrometer 1260 A and adielectric module 1296 A Ametek 1287 A .



over 50 research teams

- over 10 000 m^2 of laboratory space
- 50 research teams
- excellent place for science and business meetings

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