



BIOREGION
WIELKOPOLSKA

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Ladies & Gentlemen

The interest in BioMed and Life Science sectors increases continuously and it is closely paralleled by the growing complexity of challenges, as well as the scale of investments associated with needs and expectations of professional actors operating in these sectors, locally and globally. Those tendencies are also mirrored by growing number of new initiatives aiming at support of professional cooperation within a particular region, known as Bioregions. This network of interactive collaborations, embracing academic institutions, commercial enterprises as well as companies offering specialised business services, frequently grows far beyond initial local and regional context.

Recognising a need of support - in our own region - to the functional organisation and the development of biotechnology, the Nickel Technology Park Poznań established the BIOREGION Wielkopolska Association, which mission goals will strongly focus on integration and promotion of biotech, biomed and life science industry located within the Wielkopolska region.



Kind Regards,
Dagmara Nickel



Recognising and answering a fast growing need for regional BioTech and BioMed professional integration and one-voice promotion, the Nickel Technology Park Poznan established an association – BIOREGION Wielkopolska and intrusted the Nickel BioCentrum with coordinating role of the BIOREGION mission goals implementation. The main tasks of the BIOREGION Wielkopolska include: full integration and promotion of intensive collaboration between biotechnological, medical and life sciences regional activities in academic, commercial and political environment. BIOREGION Wielkopolska is also fostering and maintaining wide network of professionals with local and global experience in all areas associated to Bioindustries.

BIOREGION Wielkopolska also offers:

- Access to an extensive network of over 400 bio-professionals and bio-research groups / institutions from the region and beyond
- Twinning support for project and market applications with partners from the Central, Northern & Eastern European network of collaborators which include, for example, BioCity Turku, Bavarian Biotech Cluster, European Federation of Biotechnology, Hungarian Biotechnology Association, Europa Bio, etc.
- Regular, professional conferences, meetings and seminars with leaders of the bioworld
- Member support in service or product marketing and promotion by offering, for example, space on the NTPP / NBC website, access to NTPP / NBC customer catalogue and market links, production of wide-range media promotion materials (films, newspaper and magazine adverts)
- Assistance in organisation and attendance at regional and world-leading professional conferences such as BioEurope, European Congress of Applied Biotechnology and others

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Organisation type: Company

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AdvaChemLab Ltd., founded in 2007, is an innovative chemical development company based in Poland, focusing on providing its end-user clients and partners in the pharmaceutical and fine chemical industries with pioneering chemistry for asymmetric synthesis. Specifically the company is focused on chiral ligands, chiral catalysts and chiral building blocks (i.a. amino acids). We are based in a modern organic chemistry laboratory with all the associated equipment and facilities expected for small to medium scale synthetic chemistry. We have excellent onsite access to a full array of spectroscopy and characterisation techniques including NMR, MS, X-ray, UV, HPLC, GC/GC-MS.

AdvaChemLab has in-depth experience of conducting research and contract synthesis projects for clients and providing the highest levels of service and competence. We have first class synthesis and analytical facilities at our disposal which enable us to capitalise upon our expertise and provide a broad range of the highest quality services to our clients. Our particular areas of expertise are:

- unnatural amino acid synthesis
- enantioselective synthesis
- phosphorus chemistry, particularly generating P-chirality
- asymmetric catalysis
- catalyst screening
- total synthesis
- intermediate characterisation
- analytical method development for (U)HPLC (chiral and achiral)
- medicinal chemistry route development and process optimisation

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Organisation type: Limited liability biotechnological company with Research and Development status

Contact person: Name: Andrzej Mackiewicz
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BioContract Sp.z o.o. is a biotechnological company involved in research, development, implementation and marketing of innovative bio-therapies, cancer diagnostics and health products (biomaterials, nano-biomaterials). The activities aimed at the academic community and industry are carried out based on own inventions, contracts and services. The Company possesses Bioproduction Manufacturing Plant that specializes in the manufacturing (including aseptic production) of advanced medicinal products for clinical investigations in the field of:

- Somatic cell therapy
- Tissue engineering
- Gene therapy

Bioproduction Manufacturing Plant acts according to the requirements of Good Manufacturing Practice (GMP) and has a permit for use of Genetically Modified Organisms (GMO).

Offer:

1. Research
 - Invention of novel technologies including: biopharmaceuticals, tumor biomarkers, research and diagnostic methods
 - Biological research and testing
 2. Development and implementation
 - Innovative research for drug development
 - Improving and developing new diagnostic and research methods
- Improving and developing new manufacturing technologies (such as medicinal products for somatic cell therapy)
 - Manufacturing of cell banks: MCB (Master Cell Bank) and WCB (Working Cell Bank) according to GMP requirements
 - Characterization and testing of MCB, the WCB and End of Production (EOP)
 - Storage (banking) of cell lines and medicinal products (collateral material for preclinical and clinical)
 - Production up-scaling (GMP-certified, up to industrial scale)
3. Preparation of documentation required to obtain a manufacturing permit and the GMP certificate
 4. Preparation of the registration dossier
 5. Production of medicinal products and medical products (biologics and biomaterials) as required by GMP
 6. Quality control tests fulfilling GMP requirements
 7. Teaching and consulting
 8. Storage and distribution (LN₂, -80°C, -20°C, 2 – 80°C, Room Temperature)
 9. Irradiation of biological materials using large-chamber Gammacell 3000 Elan
 10. Freezing of biological materials using the ICE CUBE system

Institute of Natural Fibres & Medicinal Plants

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www: www.iwnirz.pl

Organisation type: Company

Contact person: Name: Karolina Wielgus
Position: Head of the Biotechnology Department
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Interdisciplinary research unit with international significance, which takes care of complex researches concerning obtaining and processing natural fibre and herbal raw materials. The Institute conducts several national and foreign research projects, collaborates with many scientific units all over the world. It works for agriculture, environmental protection, building industry, transport, food industry, pharmacy and medicine. Main course of actions:

- Biotechnology
- Breeding new cultivars of fibrous and medicinal plants and their agricultural technology
- Technology of obtaining and processing natural fibres and their modifications
- Agrofine-chemicals from plant raw materials, nutrients and dietetic foodstuffs
- Biofuels from fibrous plants
- Technology of producing fire retardants
- Environmental protection in processing of natural fibres
- Recipes and technologies of Polish herbal therapeutic products
- Pharmacological and microbiological investigations of raw materials and herbal preparations
- Giving an opinion on new eatables in terms of health hazard and human life

The Department of Biotechnology conducts research on many topics related to plant biotechnology, especially plant in vitro cultures and molecular biology. It elaborates biotechnological methods of plant genome analysis and modifications:

- identification of narcotic strains of Cannabis by using molecular analysis,
 - identification of cadmium binding proteins,
 - determination of genetic affinity & diversity of plant strains.
- The Department also works on in vitro cultures of hemp (*Cannabis sativa L.*), flax (*Linum usitatissimum L.*), mulberry (*Morus alba L.*) and horse-chestnut (*Aesculus hippocastanum L.*) in order to develop new features of plant cultivars. These experiments include:
- initiation of axenic in vitro cultures,
 - plant cell growth on adequately prepared media modified with plant growth regulators,
 - effective regeneration and multiplication of plants in in vitro culture by organogenesis and micropropagation,
 - experiments on other cultures and its possibility to obtain haploid plants,
 - using photoautotrophic cultures to define plant tolerance on heavy metals,
 - preparing artificial seeds to preserve chosen strains.



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Organisation type: Company

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The Biotechnology Centre for Development of Dedicated Services for the Biotech Industry project is currently under way within the 2007-2013 Wielkopolska Regional Operational Programme, Activity 1.4: Supporting Projects Related to the Regional Innovation Strategy. The chief aim of the project is to assist in the development of innovation in Wielkopolska by strengthening Nickel BioCentrum as a business support establishment.

A brand new, dedicated service development centre will be erected in Złotniki by December 2012. The total floor area of the Biotech Centre will be 4,000 square metres.

Nickel BioCentrum is a 3-storey building, offering the following to the tenants:

- Modular organisation of space (starting at 50m²)
- Room height: 3.30m
- Mechanical ventilation
- Service connections for industrial gases and compressed air in the building
- Safety devices for electrical wiring and power supply availability (UPS + generating set)
- Digital fibre-optic telecom + IT systems
- Full monitoring of building service system operation (including power supply and ventilation)

- Access to common areas within the building (scullery with clean water system, cold store, sterilisation room, conference rooms, secretary's office, warehouses)

Nickel BioCentrum services provided within the Centre:

- Analytic laboratory providing services on HPLC and GC equipment
- Microbiological analysis laboratory providing the following services:
 - Analyses: food, dietary supplements, cosmetics, pharmaceutical formulae and water
 - Quantitative determinations: overall quantity of germs in 30gC, mould and yeast, Staphylococcus aureus, Escherichia coli, bacteria from coli group, Enterobacteriaceae, Listeria monocytogenes
 - Qualitative determinations: Salmonella, Listeria monocytogenes, Staphylococcus ureus, Escherichia coli
 - Taking and analysing environmental swabs from production lines, environmental monitoring, preparing and validating microbiological methods
 - The microbiological lab is managed by a team of specialists with long-time experience in the industry.
 - Shared waste management
 - Purchasing group for reagents and materials
 - Common secretary's office

Nickel Technology Park Poznań

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Organisation type: Company

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Nickel Technology Park Poznań (NTPP) is Poland's first private establishment of this kind. A centre that successfully combines dedicated facilities and competence in knowledge transfer and business development was founded on a 33 hectare plot in Złotniki (northern Poznań).

Active support of the biotech industry and IT in its broad concept is the core activity of NTPP. Nickel BioCentrum will be launched at NTPP in 2012. An innovative establishment for domestic and international biotech operators, BioCentrum is intended to become a platform for international co-operation and synergy for the industry businesses, research teams and business related institutions, serving their information and know-how exchange and innovation transfer.

NTPP supports developing business concepts and helps run businesses. We can provide our customers with financing at the early stages of their corporate development and can fund incubating the businesses, subject to the needs and conditions.

Flexible terms of lease of the modern offices, warehouses and ready to use conference rooms, including their customising to the client's needs are further assets of NTPP. A range of support services is available to our lessees, such as



EU funding counsel, Data Centre and IT Outsourcing, facility maintenance, and, last but not least, the Enchanted Park kindergarten. All-purpose or dedicated facilities can be established at NTPP if so requested, including highly dedicated laboratories and clean rooms.

Our offer:

1. Space for rent:

- Office space
- Laboratories
- Warehouses
- Conference rooms

2. Support for business processes

- Support for innovative projects
- Nickel Incubator
- Capital_Link – business meetings

3. Other business facilities

- Data Centre
- Enchanted Park kindergarten
- Restaurants and catering
- Space maintenance
- Car wash

Novazym Polska

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Organisation type: Company

Contact person: Name: Adam Burzyński
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Established in 2004, NOVAZYM POLSKA is an R&D and process implementation company.

We specialize in the production of recombinant proteins, diagnostic serums, and, since recently, (NovaBeats) magnetic molecules that are used in retrieval processes and in purifying nucleic acids and proteins.

Our Company offers a complete range of molecular biology and biotechnology enzymes, e.g.: 6 types of DNA polymerases including 2 types of hot-start DNA polymerases, reversed M-MLV transcriptase, DNA fagaT4 ligase, and ready-to-use reagent kits used in PCR, RT-PCR and Real time – PCR reactions.

In a comprehensive manner, we carry out our polyclonal antibody production projects, from mapping protein epitopes, peptide synthesis, and conjugation with hapten-proteins, to purification of specific antibodies.

At the moment, we are dynamically expanding one of our most state-of-the-art technologies of production of (NovaBeats) magnetic molecules, which are used in molecular diagnostics.



Our hard work has resulted in the emergence of a line of unique products that are used in DNA retrieval processes, including:

- Novabeads blood genomic DNA KIT – a kit for rapid and high performance retrieval of DNA from blood (taking approx. 25 – 30 minutes)
- Novabeads Plant DNA KIT – a kit for high performance retrieval of DNA from vegetable tissues
- Novabeads Tissue DNA KIT – a kit for high performance retrieval of DNA from animal tissues
- Novabeads Magne GEL-OUT – a kit for elution of DNA from agarose gels
- Novabeads PCR Clean – a kit for DNA purification following the PCR reaction
- Novabeads Plasmid DNA KIT – a kit for rapid and high performance retrieval of plasmid DNA from E. coli bacteria.

Nuscana Biotechnika Laboratoryjna

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www: www.nuscana.pl

Organisation type: Company

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NUSCANA Biotechnika Laboratoryjna deals with implementing state-of-the-art analytical methods both in research and development institutes and in the industry. We supply laboratories with reagents, diagnostic kits, and laboratory equipment and accessories. In our accredited laboratory in Poznań, we provide specialist testing services for the agricultural, foodstuffs, and pharmaceutical sectors, taking into account international standards and ILAC, PCA requirements. In liaison with FAPAS, we arrange expertise research of testing laboratories (PT) and interlaboratory tests (ILC), and we deliver certified materials used in quality control and in validation of testing methods. For manufacturing companies that hold their HACCP, IFS, BRC or GMP, GHP systems, we offer alternative quality control methods used in

product screening tests or as a substitute for their traditional testing methods. We offer tools used in self-control of cleanliness and hygiene of process lines following their sanitization, as well as in checking cleanliness of employee hands and in verifying the overall hygienic condition of manufacturing plants.

Our experience:

- developing innovative foodstuff, fodder and medicine testing methods
- international promotions and sales of diagnostic kits
- interlaboratory tests of foodstuffs

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Organisation type: Company

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The professional staff, with extensive big pharma background, provides a comprehensive product development. Our knowledge gives us the capability to perform preformulation studies, formulation development, scaling-up, stability studies of active ingredient and finished drug product, analytical methods development, active pharmaceutical ingredient and excipient release testing, routine quality control analysis.

Experience, special know-how:

- Preformulation Studies
- Formulation Development
- Analytical Services
- Stability Studies
- Validation
- Regulatory Documentation
- Counseling

Mission:

High quality services for pharmaceutical, food and cosmetic companies.

STERILER S.C.

Tomasz Zabrzesci i Bartosz Galica



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www: www.steriler.pl

Organisation type: Company

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The STERILER Company provides its Customers with high customer service standards in the area of broadly comprehended sterility of laboratory works, and of production, storage and distribution processes.

We accompany our Customers from the moment the problem is identified, by analyzing it and selecting an optimum solution for it, its designing, delivery and commissioning processes, through to continuous maintenance service care being provided over the systems they operate.

In order to achieve the objectives as kit by our Customers, we work closely together with a number of manufacturers, who are recognized as being the best in their branches of industry.

The STERILER Company's offer includes:

- autoclaves, steam and plasma sterilizers
- clean room monitoring systems
- module clean room elements (flexible walls, intake ventilators with filters)
- sterilizing and disinfecting consumables
- sterile clothing and accessories
- clean room furniture

VitaInSilica

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www: www.vitainsilica.pl

Organisation type: Start-up company developed in Poznan Academic Pre-Incubator of Entrepreneurship

Contact person: Name: Dr Anna Czerwoniec
Position: CEO
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VitaInSilica is a start-up bioinformatics company located in Poznań, Poland. We provide support in the fields of bioinformatics, computational biology, biotechnology and molecular biology. Our offer is addressed to both academia and business. It includes training, bioinformatics software development, data mining, analysis and interpretation of obtained results. Consulting and project management take place in close collaboration between your organization and our team of experts in order to assure the highest quality. Our aim is to help you to make discoveries faster.

Bioinformatics is the application of statistics and computer science to the field of molecular biology. Over recent years it has become a basic field of science and indispensable part of biological and medical research. The application of bioinformatics includes the creation of databases, as well as algorithms, usage of computational and statistical techniques to solve problems arising from the management and analysis of biological data. Bioinformatics tools are widely used in pharmaceutical industry to find new therapeutics. Their usage also helps in designing laboratory experiments, thus saving time and money.

Contact:

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PROGRAM REGIONALNY
NARODOWA STRATEGIA SPÓŁNOŚCI



WOJEWÓDZTWO
WIELKOPOLSKIE



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www.bioregionwielkopolska.pl