

**Who is who  
in  
Polish  
biotechnology**

**Kto jest kim  
w  
polskiej  
biotechnologii**



Opracowanie:  
Krystyna Ludwiczak  
Tomasz Twardowski

WILLIAM B. ...

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- **Kazimierz Adamczewski**  
 professor  
 Head of the Department
- Department of Weed Science and Plant  
 Protection Technique  
 Institute of Plant Protection  
*Zakład Herbologii i Techniki Ochrony Roślin*  
*Instytut Ochrony Roślin*  
 ul. Miczurina 20, 60-318 Poznań  
 phone: (61) 864-90-83  
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- research area (key words):** weed science  
**application of research:** field and greenhouse experiment with weeds  
 and herbicides
- name of culture collection(s)**  
**(key words):** herbicide resistant crops (HRC)  
**description of culture**  
**collection(s):** corn, sugar beet, rape  
**service(s) offered**  
**(key words):** field experiment whis HRC crops
- **AKOR LABORATORIES**  
 Sp. z o.o.
- ul. Kielnieńska 68  
 phone: (58) 522-92-10  
 fax: (58) 522-90-00  
 e-mail: akor@sprintnet.pl  
 www.akorlaboratories.com.pl
- research area (key words):** DNA, RNA, nucleic acids, cDNA, polymerase,  
 epicentre, biozym, bioplastics, molecular cloning,  
 transposomics, PCR, RT-PCR, real-time,  
 electrophoresis, transilluminators
- description of commercial**  
**product(s)**  
**(key words):** molecular biology: DNA, RNA, cloning, detection  
 mutation, BAC vectors, PCR, RT-PCR, real-time  
 PCR, sequencing, polymerases, ligases, kinases.  
 Disposables: tips, filtertips, PCR tubes, tubes,  
 cryo boxes, work racks, cell culture products
- specific features of products:** high quality, DNases/RNases/pyrogen free guarantee  
 apparatus: electrophoresis system (chamber, supply),  
 transilluminators, autoclaves, photodocumentation,  
 electronic imaging and analysis systems



ready-made primers and custom, oligonucleotide synthesis, restriction enzymes

■ **Andrzej Aniol**

professor  
Head of the Department  
Deputy Director of the  
Institute  
Member of the Biotechnology  
Committee

Crop Abiotic Stress Laboratory  
Department Plant Biochemistry and Physiology  
Plant Breeding and Acclimatization Institute  
*Laboratorium Stresów Abiotycznych*  
*Zakład Biochemii i Fizjologii Roślin*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
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**research area (key words):**

cereal physiology, mineral stress, aluminium toxicity/tolerance, chromosomal location, physiological expression of Al-tolerance genes, wheat, rye, *Triticale*, molecular markers  
**application of research:** breeding of aluminium-tolerant cultivars of wheat and *Triticale*

■ **Mirosława Szczęsna-Antczak**

Ph.D., lecturer  
researcher

Institute of Technical Biochemistry  
Faculty of Biotechnology and Food Sciences  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Biotechnologii i Nauk o Żywności*  
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phone: (042) 631-34-41  
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e-mail: mirszcz@mail.p.lodz.pl

**research area (key words):**

biocatalysis, enzymes, immobilization, biosynthesis, microbial products, biotransformation

■ **Tadeusz Antczak**

Dr. Sci., lecturer  
researcher

Institute of Technical Biochemistry  
Faculty of Biotechnology and Food Sciences  
Technical University of Łódź  
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**research area (key words):** biocatalysis, biotransformation, non-aqueous enzymology, enzymes immobilization

■ **Nina Antos**

Ph.D., assistant professor

Laboratory of Bioenergetics  
 Institute of Molecular Biology and Biotechnology  
 Faculty of Biology  
 Adam Mickiewicz University  
*Zakład Bioenergetyki*  
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**research area (key words):** mitochondria, alternative oxidase, uncoupling protein, *Acanthamoeba castellanii*

■ **Halina Augustyniak**

professor

Head of the Department

Department of Plant Molecular Biology  
 Institute of Molecular Biology and Biotechnology  
 Faculty of Biology  
 Adam Mickiewicz University  
*Zakład Biologii Molekularnej Roślin*  
*Instytut Biologii Molekularnej i Biotechnologii*  
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 e-mail: haaugust@main.amu.edu.pl

**research area (key words):** DNA, RNA, binding proteins, plant mitochondria, plant molecular markers, mitochondrial proteome mutation in PKD<sub>1</sub> gene

**application of research:** application of molecular markers to distinguish potato cultivars resistant and sensitive to nematodes, screening of PKD<sub>1</sub> gene mutations in families with ADPKD disease

■ **Anna Bach**  
professor  
Head of the Department

Department of Ornamentals  
Faculty of Horticulture  
Agricultural University  
*Katedra Roślin Ozdobnych*  
*Wydział Ogrodniczy*  
*Akademia Rolnicza*  
al. 29 Listopada 54, 31-425 Kraków  
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**research area (key words):** somatic embryogenesis, plants regeneration *in vitro*, markers of morphogenesis, callus cultures  
**application of research:** advanced technology of plants regeneration, liquid cultures, quality markers of *in vitro* regenerants

**description of commercial product(s) (key words):** advanced technology of ornamental plants regeneration *in vitro*

**name of culture collections (key words):** ornamental bulbous plants: *Tulipa*, *Galanthus*, *Narcissus*, *Lilium*

**service(s) offered (key words):** *in vitro* regeneration, consulting

■ **Rafał Barański**  
Ph.D., assistant professor

Department of Genetics, Plant Breeding and Seed Science  
Faculty of Horticulture  
Agricultural University of Cracow  
*Katedra Genetyki, Hodowli i Nasiennictwa*  
*Wydział Ogrodniczy*  
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al. 29 Listopada 54, 31-425 Kraków  
phone: (12) 411-90-43  
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**research area (key words):** plant genetics and breeding, plant genetic modification, plant resistance against pathogens, genetic resources

**application of research:** use of molecular techniques for plant improvement and characterization useful in plant breeding and for conservation of genetic resources

■ **Ewa Bartnik**  
professor

Department of Genetics  
Faculty of Biology  
University of Warsaw and Institute of  
Biochemistry and Biophysics  
Polish Academy of Sciences  
*Instytut Genetyki*  
*Wydział Biologii*  
*Uniwersytet Warszawski i Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone: (022) 592-22-47  
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**research area (key words):** mitochondrial diseases, mitochondria in cancer and aging

**application of research:** diagnosis of mitochondrial diseases

■ **Agnieszka Bartoszek**  
Ph.D., lecturer  
and researcher

Department of Pharmaceutical Technology  
and Biochemistry  
Faculty of Chemistry  
Gdańsk University of Technology  
*Katedra Technologii Leków i Biochemii*  
*Wydział Chemiczny*  
*Politechnika Gdańska*  
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phone: (58) 347-24-07  
fax: (58) 347-15-16  
e-mail: ab@altis.chem.pg.gda.pl

**research area (key words):** DNA adduct formation by antitumor drugs, biological significance of adriamycin activation by one-electron reductases, chemopreventive food components



■ **Grzegorz Bartoszewski**  
Ph.D., assistant professor

Department of Plant Genetics, Breeding  
and Biotechnology  
Faculty of Horticulture and Architecture  
Landscape  
Warsaw Agricultural University  
<http://www.sggw.waw.pl/~bartoszewski/english.htm>  
*Katedra Genetyki, Hodowli i Biotechnologii Roślin*  
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<http://www.sggw.waw.pl/~bartoszewski/>

**research area (key words):**

mitochondria inheritance, plant mitochondrial  
genome evolution, influence of cell cultures on  
mitochondrial genome, tomato improvement,  
transgene expression in tomato, cucurbits  
genetics and breeding

**application of research:**

biotechnology, agriculture, horticulture

■ **Włodzimierz Bednarski**  
professor  
Head of Chair of Food  
Biotechnology  
Member of the Biotechnology  
Committee

Chair of Food Biotechnology  
Department of Food Science  
University of Warmia and Mazury  
*Katedra Biotechnologii Żywności*  
*Wydział Nauki o Żywności*  
*Uniwersytet Warmińsko-Mazurski*  
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phone: (89) 523-36-87  
fax: (89) 523-38-38  
e-mail: [wbed@uwm.edu.pl](mailto:wbed@uwm.edu.pl)

**research area (key words):**

biotechnological synthesis of food and feed  
ingredients; enzymatic modification of proteins,  
saccharides and lipids; biotechnological  
utilisation of by-products

**application of research:**

food technology development, i.e. new  
technology of milk products with lactose  
modification

- **Stanisław Bielecki**  
 professor  
 Vice-Rector for Science and  
 Development of Technical  
 University of Łódź  
 Director of the Institute  
 Chairman of  
 the Biotechnology Committee  
 Polish Academy of Sciences
- Institute of Technical Biochemistry  
 Faculty of Biotechnology and Food Sciences  
 Technical University of Łódź  
*Institut Biochemii Technicznej*  
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 phone: (42) 631-34-42  
 fax: (42) 636-66-18  
 e-mail: stanb@p.lodz.pl
- research area (key words):** applied biocatalysis, biocatalysis in  
 nonconventional media, enzymatic synthesis of  
 oligosaccharides and polysaccharides, molecular  
 enzyme engineering
- application of research:** white biotechnology, biopolymers and novel  
 biomaterials
- **Stanisław Błażej**  
 Ph.D.  
 Head of the Division
- Chair Biotechnology and Food Microbiology  
 Department Biotechnology, Microbiology  
 and Food Evaluation  
 Faculty of Food Technology  
 Warsaw Agricultural University  
*Katedra Biotechnologii, Mikrobiologii i Oceny Żywności*  
*Wydział Technologii Żywności*  
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 e-mail: blazejak@delta.sggw.waw.pl
- research area (key words):** food biotechnology, food microbiology, food  
 safety
- application of research:** food industry
- service(s) offered**  
**(key words):** microbiological analysis, consulting
- **Ryszard Błażewski**  
 professor  
 Head of the Chair
- Chair of Rural Water Supply and Sanitation  
 Department of Hydraulic Engineering  
 Faculty of Land Reclamation and Environmental  
 Engineering



August Cieszkowski Agricultural University  
*Zakład Zaopatrzenia w Wodę i Sanitacji*  
*Katedra Budownictwa Wodnego*  
*Wydział Melioracji i Inżynierii Środowiska*  
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- research area (key words):** wastewater treatment, nitrogen removal, nitrification, denitrification, activated sludge, constructed wetlands
- application of research:** wastewater treatment plants (small)
- description of commercial product(s) (key words):** small compact wastewater treatment plant for domestic sewage
- trade name(s):** SRBXY
- specific features of products:** sequential biological reactor combined with a septic tank; it serves up to 30 inhabitants
- service(s) offered (key words):** wastewater treatment

■ **Jacek Błażewicz**

professor  
 Chief of the Laboratory

Laboratory of Bioinformatics  
 Institute of Bioorganic Chemistry  
 Polish Academy of Sciences  
*Pracownia Bioinformatyki*  
 Instytut Chemii Bioorganicznej  
 Polska Akademia Nauk  
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- research area (key words):** bioinformatics, DNA sequencing by hybridization, genome mapping, combinatorial models of RNA analysis, search for motifs
- application of research:** sequencing by hybridization with isothermic libraries, combinatorial algorithm for analyzing NMR images of RNA chains
- description of commercial product(s) (key words):** Polish patent pending applications: "A method for combinatorial analysis of NMR spectra of RNA chains"



■ **Jan Borkowski**  
 associate professor

Research Institute of Vegetable Crops  
*Institut Warzywnictwa*  
 ul. Konstytucji 3 Maja 1/3, 96-100 Skierniewice  
 phone: (46) 833-22-11 ex. 217  
 fax: (46) 833-31-86

**research area (key words):** physiological disorders in vegetables, specially in tomato, Chinese cabbage; the treatment of diseases caused by fungi by use ecological preparations; the control of *Broomrape ramosa* on tomato

■ **Zbigniew Broda**  
 professor  
 Head of the Department

Division of Genetics  
 Department of Genetics and Plant Breeding  
 Faculty of Agriculture  
 August Cieszkowski Agricultural University  
*Katedra Genetyki i Hodowli Roślin*  
*Wydział Rolniczy*  
*Akademia Rolnicza im. Augusta Cieszkowskiego*  
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 phone: (61) 848-77-16  
 fax: (61) 848-78-05  
 e-mail: zbroda@au.poznan.pl

**research area (key words):** genetics and plant breeding, agricultural biotechnology (*in vitro* culture, molecular diagnostics, genetics engineering of crop plants)

**application of research:** plant breeding

■ **Andrzej Brudziński**  
 professor

Adviser and President of the Standardisation Commission for Brewing  
 Department of Malting and Brewing Technology  
 Institute of Biotechnology of the Agricultural and Food Industry  
*Zakład Technologii Piwa i Słodu*  
*Institut Biotechnologii Przemysłu Rolno-Spożywczego*  
 ul. Rakowiecka 36, 02-532 Warszawa  
 fax: (22) 849-04-28

**research area (key words):** barley, malt, hops, beer, brewing enzymes and microbiology  
**application of research:** malting and brewing technology  
**name of culture collection(s) (key words):** brewery yeast, *Geotrichum candidum* for malting purposes  
**description of culture collection(s):** cultures on nutrient agar  
**service(s) offered (key words):** barley, malt, hop and beer analyses, products and expertise etc., cultures for sale on request

■ **Jolanta Bryjak**  
 Ph.D.

Bioprocess Engineering Group  
 Department of Chemistry  
 Wrocław University of Technology  
*Zakład Inżynierii Bioprosesowej*  
*Wydział Chemii*  
*Politechnika Wroclawska*  
 ul. Norwida 4/6, 50-373 Wrocław  
 phone: (71) 320-26-77  
 e-mail: bryjak@pwr.wroc.pl

**research area (key words):** stabilisation of enzymes by additives, immobilisation, kinetics of enzymes, kinetics of inactivation, mathematical modelling of processes, membrane separation of proteins, membrane reactors  
**application of research:** pharmaceutical and food industry

■ **Janusz Marek Bujnicki**  
 professor  
 Head of the Laboratory  
 EMBO/HHMI Young  
 Investigator (2002-2006)

Laboratory of Bioinformatics and Protein Engineering  
 International Institute of Molecular and Cell Biology  
*Pracownia Bioinformatyki i Inżynierii Białka*  
*Międzynarodowy Instytut Biologii Molekularnej i Komórkowej*  
 ul. Trojdena 4, 02-109 Warszawa  
 phone: (22) 668-53-84  
 fax: (22) 668-52-88  
 e-mail: iamb@genesilico.pl

- research area (key words):** bioinformatics, protein structure prediction, molecular evolution, phylogenomics, protein-nucleic acid and protein-ligand interactions, protein engineering, RNA modification, methyltransferases, restriction-modification systems
- application of research:** engineering of enzymes with novel properties, protein design
- service(s) offered (key words):** protein structure prediction, protein design

■ **Wojciech Burza**  
Ph.D.

Department of Plant Genetics Breeding and Biotechnology  
Faculty of Horticulture and Landscape Architecture  
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phone: (022) 843-09-82; (022) 843-90-41 ex. 11262  
fax: (022) 843-09-82  
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- research area (key words):** plant biotechnology: novel micropropagation methods in *Cucurbitaceae* and *Solanaceae*; large-scale production in bioreactors; alternative transformation methods, protoplast technology, production of biologically active compounds in cell suspension cultures
- application of research:** patents:
1. Burza W., Malepszy S., Tylicki A., Kuraś M., 1999. Procedure of plant micropropagation using root primordia culture. Patent application No. P 335636.
  2. Burza W., Kondo K., Malepszy S., 2000. Procedure of plant micropropagation using liquid culture of meristematic clusters. Patent application No. P 338621.



3. Burza W., Malepszy S., 2000. Procedure of plant micropropagation using long-term embryogenic culture with simple verification of embryogenic capacity. Patent application No. P 338622.

4. Burza W., Malepszy S., 2003. Procedure of riboflavin production using liquid plant embryogenic culture. Patent application No. P 360481.

**name of culture collection(s):** collection of cucumber embryogenic suspension cultures, root primordia cultures, *rhizogenic* suspension cultures, liquid cultures of meristematic clusters, collection of 30 genetically stable cucumber somaclones

**service(s) offered  
(key words):**

micropropagation of species belonging to the family *Cucurbitaceae*, cucumber transformation with various constructs, rapid and massive transformation of cucumber on the cell level for *in vitro* evaluation of the transgen, protoplast culture and fusion, large-scale production in bioreactors

■ Aleksander Chmiel  
professor  
Head of the Department

Chair of Biology and Pharmaceutical  
Biotechnology  
Department of Biosynthesis of Drugs  
Faculty of Pharmacy  
Medical University of Łódź  
*Zakład Biosyntezy Środków Leczniczych*  
*Katedra Biologii i Biotechnologii Farmaceutycznej*  
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**research area (key words):** microbial biotechnology, plant cell and organ biotechnology, cell immobilization, biosynthesis of pharmacologically active components, bioreactors for plant organs

- application of research: pharmacy
- service(s) offered  
(key words): bioreactors for plant tissue and organ cultures
- Aleksandra Duda-Chodak  
Ph.D., assistant professor  
Department of Fermentation Technology and  
Technical Microbiology  
Faculty of Food Technology  
Agricultural University  
*Katedra Technologii Fermentacji i Mikrobiologii  
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- research area (key words): antioxidants in apple fruit and products;  
pathogenesis of tumours; stomach cancer;  
*H. pylori*; role of free radicals and cytokines in  
ischemia – reperfusion – induced injury of  
gastric mucosa
- application of research: modification of technological processes for  
improvement of antioxidant properties of apple  
products
- service(s) offered  
(key words): evaluation of antioxidant capacity (ABTS, DPPH);  
RNA; DNA and protein isolation; gene expression  
analyses (PCR, RT-PCR); Western blot; ELISA
- Józefa Chrzanowska  
professor  
Dean of Faculty  
Member of  
the Biotechnology Committee  
Member of the Food Science  
Committee  
Department of Animal Products Technology  
Faculty of Food Science  
Agricultural University of Wrocław  
*Katedra Technologii Surowców Zwierzęcych*  
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**research area (key words):** food enzymology, microorganisms (fungi, yeast, bacteria), proteolytic enzymes, applications in food industry

**application of research:** dairy industry, meat industry

**service(s) offered (key words):** enzymatic analysis, fractionation of products of hydrolytic degradation of proteins, cheese quality control

■ **Jerzy Ciarkowski**  
professor  
Head of the Chair

Department of Molecular Modeling  
Faculty of Chemistry  
University of Gdańsk  
*Zakład Modelowania Molekularnego*  
*Wydział Chemii*  
*Uniwersytet Gdański*  
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phone: (58) 345-03-30  
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**research area (key words):** protein modeling, drug design, biological signal transduction, mechanism of protein-ligand interaction

■ **Danuta Ciechańska**  
Ph.D., Scientific Secretary  
Head of the Analytical  
Laboratory

Department of Biotechnology of Polymers  
and Fibres  
Institute of Chemical Fibres  
*Zespół Biotechnologii Polimerów i Włókien*  
*Instytut Włókien Chemicznych*  
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**research area (key words):** biosynthesis of modified bacterial cellulose; enzymatic modification of polymers (e.g. cellulose, chitosan, starch), biotechnological processes for fibres and textiles modification and degradation

**application of research:** chemical fibres, environmental protection, medicine, electronics, agriculture



- service(s) offered  
(key words):**                   GLP (Good Laboratory Practice) certificate area of expertise: physical, chemical and biochemical testing of polymers and enzymes
- **Danuta Czajkowska**  
associate professor
- Laboratory of Food Microbiology  
Department of Technical Microbiology and Biochemistry  
Institute of Agricultural and Food Biotechnology  
*Laboratorium Mikrobiologii Żywności*  
*Zakład Mikrobiologii Technicznej i Biochemii*  
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phone: (022) 606-36-84  
fax: (022) 849-04-28  
e-mail: czajkowska@ibprs.pl
- research area (key words):**   bacteria, fungi, identification, microbiological quality of food, pathogens detection – standard and alternative methods, intelligent packing
- application of research:**      industrial microbiology, food microbiology
- **Janusz Czapski**  
professor  
Head of the Laboratory
- Laboratory of Processing and Quality Evaluation  
Research Institute of Vegetable Crops  
*Pracownia Przetwórstwa i Oceny Jakości*  
*Instytut Warzywnictwa*  
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phone: (46) 833-26-40  
e-mail: jczapski@inwarz.skierniewice.pl
- research area (key words):**   food chemistry
- application of research:**      quality of fresh and processed vegetables
- **Henryk Jerzy Czembor**  
professor  
Chief of the Department
- Laboratory Applied Genetics  
Department Plant Breeding and Genetics  
Plant Breeding and Acclimatization Institute  
*Laboratorium Genetyki Stosowanej*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
Radzików, 05-870 Błonie  
phone: (022) 725-26-11

fax: (022) 725 47 14  
e-mail: h.czembor@ihar.edu.pl

**research area (key words):** breeding of barley and wheat, cereals pathology and genetics, marker assisted selection  
**application of research:** chief and co-breeder of 11 released barley and 4 spring wheat cultivars

■ **Jolanta Zakrzewska-Czerwińska**  
professor  
Head of the Department

Laboratory of Molecular Biology of Microorganisms  
Department of Microbiology  
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**research area (key words):** microbiology, molecular biology, replication, molecular taxonomy

**application of research:** identification of pathogenic microorganisms

■ **Jerzy Czuba**  
associate professor  
Deputy Director  
for Scientific Affairs  
Member of  
the Biotechnology Committee

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**research area (key words):** food technology, technical microbiology, acetic acid fermentation

**application of research:** food industry, vinegar factories

**name of culture collection(s)**

**(key words):**

Culture Collection of Industrial Microorganisms  
IAFB (culture collection, bacteria, yeast, filamentous fungi)



<b>description of culture collection(s):</b>	collection comprises microorganisms occurring in the industry: bacteria (of lactic, acetic and propionic acid, dextran producing and others), yeast (wine, brewers', distillery, bakers' and feed yeast) and filamentous fungi (producing pectynolytic, xylanolytic, proteolytic, lipolytic, beta-glucanase, cellulolytic and amylolytic enzymes)
<b>service(s) offered (key words):</b>	consulting
<b>additional information:</b>	culture collection in IAFB is a member of WFCC and ECCO and has the status of international depository organ entitled to receipt microbial strains being the subject of patent applications. Dr. Anna Misiewicz is the curator of the collection

■ **Iwona Markowska-Daniel**  
Ph.D., associate professor

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National Veterinary Research Institute  
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<b>research area (key words):</b>	infectious diseases of swine, virology, bacteriology, immunology, DNA vaccines, PCRs, molecular diagnosis
<b>application of research:</b>	evaluation of DNA vaccine against CSF, molecular characterization of bacterial pathogens of swine, PCR for diagnose
<b>description of commercial product(s) (key words):</b>	Rotawac-S vaccine for pigs against <i>Rotavirus</i> ; ELISA Kit for CSF serodiagnosis
<b>name of culture collection(s) (key words):</b>	PK-15, SK-6, MA-104, SF9, SF21, BHK, COS, CHO
<b>description of culture collection(s):</b>	continous cell lines



■ **Jarosław Dastych**

Ph.D.

Chief of the Laboratory

Member of

the Biotechnology Committee

Laboratory of Cellular Immunology

Center for Medical Biology and Microbiology

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**research area (key words):**

immunology, allergy, immunotoxicology and molecular biology

**application of research:**development of High Throughput Assays for detection of biological activity of chemicals *in vitro* for research, diagnose and safety evaluation**description of commercial product(s) (key words):**patent pending technology called "Fluorescent Cell Chip" (FCC) for testing immunomodulatory and immunotoxic effects of chemicals *in vitro***specific features of products:**

FCC consists of a panel of reporter cell lines regulating expression of a transgene coding for fluorescent protein in the same way as they regulate expression of cytokines. FCC could be employed in a uniform high throughput system for screening high numbers of compounds for their possible effect on expression of a number of cytokine genes (immunotoxicity).

**name of culture collection(s) (key words):**

collection of reporter cell lines for FCC. Collection of DNA constructs employed to develop the reporter cell lines

**description of culture collection(s):**collection of reporter cell lines representing lymphocytes, macrophages, mast cells and keratinocytes regulating expression of fluorescent protein in the same way as they regulate expression of *IL-1 $\beta$* , *IL-2*, *IFN- $\gamma$* , *IL-4*, *IL-10* and *TNF- $\alpha$*  and  $\beta$ -actin. Collection of DNA reporter constructs for *IL-1 $\beta$* , *IL-2*, *IFN- $\gamma$* , *IL-4*, *IL-10* and *TNF- $\alpha$* , and control DNA constructs containing  $\beta$ -actin promoter

**service(s) offered  
(key words):**

screening of chemical compounds for immunomodulatory activities. Development of new HTS platforms for detection of biological activities of chemicals *in vitro*

■ **Adam Dąbrowski**  
Managing Director

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**research area (key words):**

introduction of microarray technics into the practical applications

**description of commercial  
product(s) (key words):**

GMO-diagnostics, animal species diagnostics, diagnostics for food ingredients quantification, pathogen detection diagnostics, hygiene monitoring equipment, DNA/RNA extraction and purification kits, water activity measuring instruments, biotechnological facilities and moduls, pilot plants, laboratory equipment and laboratory consumables, control and measuring instruments and utilities

**service(s) offered  
(key words):**

food and feed analytic, GMO analytics, animal species identification, detection of food adulterations, technical advisement regarding the investigation in biotechnological facilities and laboratory equipment, calibration and validation services



- Jerzy Długoński**  
 professor  
 Head of the Department  
 Director of the Institute  
 Member of the Biotechnology  
 Committee
- Department of Industrial Microbiology and  
 Biotechnology  
 Institute of Microbiology and Immunology  
 Faculty of Biology and Environmental Protection  
 University of Łódź  
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- research area (key words):** industrial microbiology, environmental  
 biotechnology
- application of research:** steroid hormone production, xenobiotics  
 biodegradation, heavy metals recovery by  
 microorganisms
- Romuald Doliński**  
 Ph.D.
- Institute of Genetics and Plant Breeding  
 Faculty of Agriculture  
 University of Agriculture in Lublin  
*Institut Genetyki i Hodowli Roślin*  
*Wydział Rolniczy*  
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- research area (key words):** plant tissue culture, somatic embryogenesis,  
 alfalfa, red clover, white clover, American  
 ginseng
- Tomasz Drewa**  
 assistant professor, M.D.
- Tissue Engineering Laboratory  
 Medical Biology Department  
 Medical Faculty  
 Ludwik Rydygier Medical University of Bydgoszcz  
*Laboratorium Inżynierii Tkankowej*  
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 www.tissue-engineering.webpark.pl

**research area (key words):** primary human cell cultures, reconstructive surgery and urology, experimental oncology  
**application of research:** management of vesico- ureteral reflux using autologous chondrocytes, management of uretral structures, management of human tibial ulcers and hypertrophic scars, management of vitiligo

■ **Adam Dubin**  
 Professor, Vice-Dean  
 Faculty of Biotechnology  
 and Faculty Socrates  
 Coordinator  
 Member of  
 the Biotechnology Committee

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**research area (key words):** proteinase inhibitors, protease, recombinant proteins, refolding, antibacterial peptides  
**application of research:** technology of production of antitrypsin as a drug  
**description of commercial product(s) (key words):** BioCenter Ltd., production and service biotechnology company, production of enzymes (proteinases) and their natural inhibitors (serpins), monoclonal antibody  
**trade name(s):** Biocenter Ltd. – see: [www.mol.uj.edu.pl/biocentrum](http://www.mol.uj.edu.pl/biocentrum)  
**specific features of products:** commercial production of 20 enzymes, inhibitors, proteins and antibodies  
**service(s) offered (key words):** proteins and peptides sequencing; amino acid analysis of proteins; ZD-electrophoresis and proteomics; collaboration in production of recombinant proteins; monoclonal antibodies

■ **Karol W. Duczmal**  
professor

Chair of Seed Science  
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**research area (key words):**

seed economy

**application of research:**

seed market research and seed management

**description of commercial**

**product(s) (key words):**

expertise concerning intellectual property rights  
(seed), seed law, seed market analysis

**name of culture collection(s)**

**(key words):**

agricultural and vegetable crops

■ **Piotr Dullin**  
Ph.D.  
researcher and instructor

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**research area (key words):**

transcription, transcription factors, veenlation  
transcription

**application of research:**

transcription systems *in vitro* for genes class II  
and III



■ **Ewa Dziedzic**  
assistant professor

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Agricultural University  
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research area (key words): pomology, tissue culture, biology of flowering

■ **Teresa Farbiszewska**  
Ph.D., lecturer

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research area (key words): bioleaching, biodegradation  
application of research: ore and metalliferous waste materials enrichment  
name of culture collection(s): *Acidithiobacillus ferrooxidans* and *Acidithiobacillus thiooxidans*

description of culture collection(s): autochthonic, mesophilic, chemolithotrophic bacteria isolated from leaching assigned materials

service(s) offered (key words): bacterial leaching of lean ore and waste materials to obtain metals

■ **Jan Fiedurek**  
professor  
associate director

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**research area (key words):** industrial microbiology, strain improvement, enzyme biosynthesis, biotransformation of limonene, immobilization of cells  
**application of research:** food and feed processing

■ **Marek Figlerowicz**

Ph.D., Dr. Sci.  
Head of Molecular Virology Team  
Member of the Editorial Board of Biotechnology

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*Zespół Wirusologii Molekularnej*  
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**research area (key words):** molecular virology, RNA recombination, RNA genetics, RNAi phenomenon, gene silencing, RNAi suppressors, DNA micro-arrays

■ **Marian Filipiak**

professor  
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**research area (key words):** DNA and enzymatic biosensors  
**application of research:** food analysis

■ **Agnieszka Fiuk**  
assistant

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Polish Academy of Sciences  
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**research area (key words):** *Gentiana* sp., protoplast culture, transformation, somatic embryogenesis, micropropagation

■ **Józef Fornal**  
professor  
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Laboratory Physical Properties of Food  
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Institute of Animal Reproduction and Food Research  
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**research area (key words):** microstructure, physical and functional properties of food, optical and electron microscopy, rheology, functional food, starch, mutant wheat, GM potatoes, rapeseeds, legumes, cheese

**application of research:** relationship between microstructure, physical properties and technological usability of raw materials is of crucial importance for designing and/or modifying of technological parameters of the process. Influence of post harvest treatment of raw materials on processing parameters, cold pressing of oilseeds, low fat cheeses production and effect of chemically induced (wheat, pea, grass-pea) and genetically modified (potato), as well as early detection of insect infestation of wheat grain by non-invasive X-ray method.



■ **Agnieszka Frach**  
M.Sc, researcher

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**research area (key words):**  
**application of research:**

cadmium, proteins, linseed, phytochelatin  
isolation and identification cadmium binding  
proteins in linseed

■ **Antoni Furowicz**  
professor, Ph.D., D.Sc.,  
D.V.M.  
Head of the Department

Laboratory of Animal Immunoprophylaxis  
Department Immunology and Microbiology  
Agricultural University of Szczecin  
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**research area (key words):**

animal yersiniosis, colibacteriosis and listeriosis:  
ethiopathogenesis, immunoprophylaxis and  
therapy. Veterinary aspects of  
immunomodulators. Microbiological investigation  
of the *Bacillus cereus* in the context of human  
and animal poisonings

**application of research:**

clinical and immunological aspects  
immunostimulation and vaccination in veterinary  
medicine, autovaccines

**description of commercial  
product(s) (key words):**

immunomodulation, autovaccines (*Staphylococcus aureus*, *Yersinia pseudotuberculosis* and *Escherichia coli* antigens)

**specific features of products:**

immunoprofilaxis and therapy of the animal  
diseases



**service(s) offered (key words):** diagnosis of the infections diseases, genotypical aspects (PCR), microbiological investigation of the *Escherichia coli* 0157 and *Listeria monocytogenes* strains

**additional information:** microbiological diagnostics of the animal *Yersinia pseudotuberculosis* strains using PCR method, pathogenicity

■ **Robert Gabarkiewicz**  
Registration and Product  
Development Manager

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■ **Eleonora Gabryszewska**  
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Polish Botanical Society

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**research area (key words):** propagation *in vitro*, ornamental plants, physiology

**application of research:** horticulture

■ **Barbara Gajda**  
Ph.D., researcher

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and Cytogenetic  
National Research Institute of Animal Production  
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**research area (key words):** cryopreservation of oocytes and embryos, *in vitro* culture, embryo transfer, transgenic animals, somatic cloning

■ **Helena Gawrońska**  
professor

Department of Pomology and Basic Natural Sciences in Horticulture  
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**research area (key words):** plant responses to environmental stresses, allelopathy, pollution, phytoremediation  
**application of research:** plant pollution diagnosis, environment restoration

■ **Maria Gawrońska**  
Ph.D.

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**research area (key words):** changes of DNA conformation and disturbances in expression of genetic information in eucaryotic cells, chemical mutagens, organophosphores compounds, heavy metals  
**application of research:** agriculture, medicine



■ **Stanisław Gawroński**  
professor

Department of Pomology and Basic Natural  
Sciences in Horticulture  
Faculty of Horticulture and Landscape  
Architecture  
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- research area (key words):** environmental biotechnology, phytoremediation,  
GMO – herbicide resistance
- application of research:** phytoremediation, environment restoration
- description of commercial  
product(s) (key words):** annual and perennial herbaceous plants, shrubs  
and tree recommended for phytoremediation
- name of culture collection(s)  
(key words):** collection of plant species/cultivars for  
phytoremediation
- service(s) offered (key words):** consulting on phytoremediation

■ **Barbara Głowacka**  
professor  
Head of the Laboratory

Laboratory of Biological and Chemical Methods  
of Forest Protection  
Forest Protection Department  
Forest Research Institute  
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- research area (key words):** forest insects diseases, *Bacillus thuringiensis*,  
baculoviruses, bioinsecticides
- application of research:** pest forest insects control, bioinsecticides



■ **Małgorzata Gniewosz**  
Ph.D.  
Head of the Division

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**research area (key words):** food biotechnology, food microbiology, food safety

**application of research:** food industry

**service(s) offered (key words):** microbiological analysis, consulting

■ **Emilia Andrzejewska-Golec**  
associate professor

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**research area (key words):** *Plantago asiatica in vitro*, micropropagation, histology and ultrastructure of callus

■ **Piotr Kazimierz Goliński**  
professor  
Head of the Department

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Faculty of Wood Technology  
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**research area (key words):** mycotoxins, secondary metabolites of fungi, phytohormones, oxidation stress of plants, phytoremediation, environment polutions

**application of research:** cultivars of cereals resistant to scab (fusariosis); plants – hyperaccumulators of heavy metals; environment improvement and protection

■ **Katarzyna Goller**

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 Polish Academy of Sciences  
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**research area (key words):** multiplication, tree ferns, culture *in vitro*

**application of research:** multiplication tree ferns by culture *in vitro*, exotic plants in greenhouse

■ **Ryszard Górecki**  
 professor  
 Head of the Department

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**research area (key words):** seed physiology, stress tolerance, plant defense



- **Włodzimierz Grajek**  
professor  
Head of the Department  
Member of  
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- Department of Biotechnology and Food  
Microbiology  
Faculty of Food Technology  
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fax: (061) 846-60-03  
e-mail: [grajek@au.poznan.pl](mailto:grajek@au.poznan.pl)
- research area (key words):** food and environment biotechnology  
**application of research:** food industry, environment protection,  
bio-pharmacology
- description of commercial  
product(s) (key words):** bacteriocine, probiotics, starter cultures  
**name of culture collection(s)  
(key words):** lactic acid and propionic acid bacteria collection,  
yeast (*Saccharomyces*, *Candida* spp.)  
**service(s) offered (key words):** pilot scale microbiology processes,  
bioengineering, bacteria and anticancer vaccine  
production, chromatography analysis
- **Nikodem Grankowski**  
professor  
Head of the Department
- Department of Molecular Biology  
Institute of Microbiology and Biotechnology  
Maria Curie-Skłodowska University  
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e-mail: [officeps@biotop.umcs.lublin.pl](mailto:officeps@biotop.umcs.lublin.pl)
- research area (key words):** ribosomes, translation, enzymes, proteins  
phosphorylation, gene cloning, proteins structure  
and function



- **Magdalena Grudzińska**  
 Ph.D.  
 Laboratory of Phytopathology  
 Department of Breeding and Production of  
 Special Crops  
 Institute of Soil Science and Plant Cultivation  
*Laboratorium Fitopatologii*  
*Zakład Hodowli i Uprawy Roślin Specjalnych*  
*Institut Uprawy Nawożenia i Gleboznawstwa*  
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 phone: (081) 886-34-21  
 fax: (081) 886-45-47  
 e-mail: mgrudzinska@iung.pulawy.pl
- research area (key words):** phytopathology, mycology, virusology, detection  
 of plant pathogens (fungi, viruses, viroids,  
 phytoplasmas) by molecular methods (RT-PCR,  
 PCR, hybridization), plant tissue culture
- application of research:** plant diseases diagnosis, preparation of healthy  
 plant material
- description of commercial  
 product(s) (key words):** healthy hop cuttings with certification of  
 Institute of Soil Science and Plant Cultivation
- specific features of products:** viruses and viroid free plants
- service(s) offered (key words):** molecular diagnosis of hop and cereals diseases
- **Daniela Bernadeta Gruszecka**  
 Ph.D., Dr.Sci.  
 Institute of Genetics and Plant Breeding  
 Faculty of Agriculture  
 Agricultural University  
*Institut Genetyki i Hodowli Roślin*  
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 ul. Akademicka 15, 20-934 Lublin  
 phone: (081) 445-69-28  
 e-mail: gruszd@agros.ar.lublin.pl
- research area (key words):** triticale, rye, *Dasyphyrum villosum*, wide crossing

- **Dariusz Grzebelus**  
Ph.D., researcher/lecturer  
Chair Genetics, Plant Breeding and Seed Science  
Faculty of Horticulture  
Hugon Kołłątaj Agricultural University  
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fax: (012) 662-52-66  
e-mail: dgrzebel@ogr.ar.krakow.pl
- research area (key words):** plant molecular breeding, biotechnology, molecular markers, transposable elements, genetic linkage mapping, phylogeny, genomics, biodiversity
- application of research:** plant breeding, marker – assisted selection
- service(s) offered (key words):** applications of molecular markers in plant breeding
- **Ewa Grzebelus**  
Ph.D., assistant professor  
Chair Genetics, Plant Breeding and Seed Science  
Faculty of Horticulture  
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phone: (012) 662-51-90  
e-mail: grzebeluse@bratek.ogr.ar.krakow.pl
- research area (key words):** haploid induction, chromosome doubling, protoplast culture, cytogenetics, fluorescence *in situ* hybridization
- application of research:** plant breeding
- **Krzysztof Grzywnowicz**  
associate professor  
Department of Biochemistry  
Faculty of Biology and Earth Sciences  
Maria Curie-Skłodowska University  
*Zakład Biochemii*  
*Wydział Biologii i Nauk o Ziemi*  
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 phone: (081) 537-57-61  
 fax: (081) 537-57-61  
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**research area (key words):** biochemistry and enzymology of fungi,  
 wood-degrading fungi, proteolytic enzymes,  
 protease inhibitors

**application of research:** basic research, bioactive substances, environment  
 protection, fungal biotechnology

■ **Hanna Haber**  
 Ph.D., lecturer

Chair of Biotechnology and Food Microbiology  
 Department of Biotechnology, Microbiology and  
 Food Analysis  
 Warsaw Agricultural University  
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*Wydział Technologii Żywności*  
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 ul. Nowoursynowska 159 C, 02-787 Warszawa  
 phone: (022) 843-90-41 (61, 81), 115-70

**research area (key words):** yeast – physiological and technological  
 properties, food and technical microbiology

■ **Jacek Hennig**  
 professor  
 Member of  
 the Biotechnology Committee

Department of Plant Biochemistry  
 Institute of Biochemistry and Biophysics  
 Polish Academy of Sciences  
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 phone: (022) 592-57-21  
 fax: (022) 658-48-04  
 e-mail: jacekh@ibb.waw.pl

**research area (key words):** gene technology, plant molecular biology,  
 molecular plant-microbe interactions

**application of research:** DNA recombinant technology, plant  
 transformation and genetic engineering



■ **Lilla Hryniewiecka**  
professor  
Head of the Laboratory

Department of Bioenergetics  
Institute Molecular Biology and Biotechnology  
Faculty of Biology  
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**research area (key words):** mitochondrial function, energy transduction,  
membrane transport, alternative oxidase

■ **Przemysław**  
**Szybka-Hrynkiewicz**  
postgraduate student,  
Master of Pharmacy

Department of Pharmacognosy  
Pharmaceutical Faculty of the Collegium Medicum  
Jagiellonian University  
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*Wydział Farmaceutyczny*  
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fax: (012) 657-03-92  
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**research area (key words):** *Polygonatum verticillatum*, *in vitro*, callus,  
diosgenin, 2,4-D, BAP, 17- $\beta$ -estradiol, auxins,  
cytokinins, densitometric analysis

**application of research:** possible application for drug production  
(steroidal hormones)

**name of culture collection(s):** *Polygonatum verticillatum* (L.) All.

**description of culture**

**collection(s):** callus culture

■ **Jan Iciek**

professor  
Head of the Chair;  
Dean of the Faculty

Chair of Sugar Technology  
Faculty of Biotechnology and Food Sciences  
Technical University of Łódź  
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- research area (key words):** fluid dynamics, flow stability, heat transfer, indirect heat transfer, evaporation, drying, kinetics, thermal destruction of microorganisms and degradation of products
- application of research:** choice of heat transfer type and conditions suitable for media and requirements of specific technologies, conditions and kinetics of the continuous thermal sterilization of liquids and suspensions, energy management in food industry
- description of commercial product(s) (key words):** sterimedia plant, laboratory plant, continuous thermal sterilization, liquids, suspensions
- trade name(s):** laboratory plant for continuous thermal sterilization of media
- specific features of products:** this plant is equipped with a positive displacement pump with variator giving total capacity range of 150÷300 l/h. The sterilization temperature (135÷145°C) is reached through direct or/and indirect heating. The sterilization time (2÷90 seconds) is controlled by capacity of media and a holding tube volume

■ **Małgorzata Jakubowicz**  
assistant professor

Department of Biotechnology  
Institute of Molecular Biology and Biotechnology  
Faculty of Biology  
Adam Mickiewicz University  
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*Instytut Biologii Molekularnej i Biotechnologii*



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**research area (key words):** 1-aminocyclopropane-1-carboxylate synthase, ethylene synthesis, stress signal transduction  
**application of research:** studying of mechanisms controlling of ACC synthase activity

■ **Andrzej Jakubowski**  
Ph.D., lecturer  
Vice Dean, Vice Director

Chair of Fermentation and Biosynthesis  
Faculty of Biotechnology and Food Sciences  
Technical University of Łódź  
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**research area (key words):** bioprocess engineering, enzyme technology,  $\alpha$ -amylase, solid state fermentation, continuous fermentation  
**application of research:** enzyme production, industrial production of  $\alpha$ -amylase

■ **Piotr Janas**  
Ph.D., lecturer

Department of Food Technology and Storage  
Faculty of Agriculture  
University of Agriculture  
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*i Przechowalnictwa*  
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**research area (key words):** production of cellulases, xylanases and lytic enzymes by *Trichoderma reesei* strains mechanism of glycosylation of cellulases enzymes production of xantan gum by *Xatrohonas campest*

**application of research:** isolation of xanthomanas campest antibiotic resistance strains for high simultaneous production of extracellular enzymes and xantan gum

■ **Wiesława Jarmuszkiewicz**  
assistant professor

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e-mail: wiesiaj@main.amu.edu.pl

**research area (key words):** bioenergetics, alternative oxidase, uncoupling protein, mitochondria

**application of research:** basic studies

■ **Andrzej Jarzębski**  
professor  
Head of the Department

Department of Chemical Engineering  
Faculty of Chemistry  
Silesian University of Technology  
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*Wydział Chemiczny*  
*Politechnika Śląska*  
ul. M. Strzody 7, 44-100 Gliwice  
phone: (032) 237-14-61  
e-mail: a.jarzeb@iich.gliwice.pl

**research area (key words):** kinetics of bioconversion, modelling, microreactors with enzymatic catalysts

**application of research:** biofiltration, enzymatic catalysis, immobilization of enzymes on microstructural supports

- **Aurelia Ślusarkiewicz-Jarzina** Department of Embryology and Tissue Culture  
 Ph.D., researcher Institute of Plant Genetics  
 Polish Academy of Sciences  
*Pracownia Embriologii i Hodowli Tkanek Roślinnych*  
*Instytut Genetyki Roślin*  
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 fax: (061) 823-36-71  
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**research area (key words):** anther culture, embryo culture, wide hybridization, *in vitro* plant regeneration  
**application of research:** cereals, production of haploids and hybrid plants, plant regeneration from various explants

- **Małgorzata Maria Jaworska** Faculty of Chemical and Process Engineering  
 Ph.D., associate professor Warsaw University of Technology  
*Wydział Inżynierii Chemicznej i Procesowej*  
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 fax: (022) 825-14-40  
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**research area (key words):** biotechnology, bioprocess engineering, chitosan, bacterial and fungi cultures, enzymes (chitinase, chitosanase, chitin deacetylase)

**application of research:** chitosan in environment protection, medicine, plant protection, production of chitosan from fungi

**description of commercial**

**product(s) (key words):**

**specific features of products:** chitosan from fungi with very low acetylation degree and high molecular weight

**service(s) offered (key words):** cultures of bacteria, fungi, enzymatic reactions, enzymes purification, production of chitosan from fungi



■ **Zbigniew Jedliński**  
professor

Laboratory of Biopolymers  
Centre of Polymer Chemistry  
Polish Academy of Sciences  
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*Centrum Chemii Polimerów*  
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zbigniew.jedliński@server.cchp-pan.zabrze.pl

- research area (key words):** synthesis of nano-biopolymers for medical and other applications (biology)
- application of research:** novel drug delivery systems, synthesis of novel drug systems
- description of commercial product(s) (key words):** novel drugs for cancer therapy from the group of nonsteroidal antiinflammatory drugs and novel anthracene antibiotics
- trade name(s):** novel drugs effective in cancer therapy
- specific features of products:** patented in Poland and foreign-patents  
patent PL 172 412 (1993), 177 838 (1994)  
Polish patent application: P-320208 (1997),  
P-324541 (1998), P-339795 (2000), P-344778  
(2000), P-348487 (2001), P-356859 (2002),  
P-364513 (2004)  
European patent application No 0274622254  
(2004)
- service(s) offered (key words):** consulting on drug production

■ **Marek Jerzy**  
professor  
Head of the Chair

Chair of Ornamental Plants  
Faculty of Horticulture  
August Cieszkowski Agricultural University  
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fax: (061) 848-79-99  
e-mail: ozdobne4@owl.au.poznan.pl

**research area (key words):** *in vitro* mutagenesis, adventitious bud techniques, radiosensitivity of plants, chimera separation

**application of research:** mutation breeding of ornamental plants (chrysanthemum, gerbera, cornation)

■ **Jolanta Juchimiuk**

Ph.D., associate professor

Department of Plant Anatomy and Cytology  
Faculty of Biology and Environmental Protection  
University of Silesia

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**research area (key words):** plant cytogenetics, mutagenesis

**application of research:** mechanisms of mutagenic factors action, environmental biomonitoring

■ **Piotr Juszczyk**

Ph.D., assistant professor

Department of Biotechnology and Food  
Microbiology

Faculty of Food Science

Agricultural University of Wrocław

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e-mail: juszczyk@wnoz.ar.wroc.pl

**research area (key words):** yeast in dairy products: physiology, metabolism, interaction between microflora, yeast starter cultures, cheese production

**application of research:** food industry

**name of culture collection(s)**

**(key words):**

yeast culture collection of the Biotechnology and Food Microbiology Department



**description of culture** yeast isolated from dairy (440 strains)  
**collection(s):**  
**service(s) offered (key words):** microbiological analysis

■ **Leszek Kaczmarek**  
 professor  
 Head of the Department  
 Member of the Polish  
 Academy of Sciences

Laboratory of Molecular Neurobiology  
 Department of Molecular and Cellular  
 Neurobiology  
 The Nencki Institute of Experimental Biology  
 Polish Academy of Sciences  
*Pracownia Neurobiologii Molekularnej*  
*Zakład Neurobiologii Komórkowej i Molekularnej*  
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 e-mail: leszek@nencki.gov.pl

**research area (key words):** neurodegeneration, neuroprotection, neural  
 plasticity brain damage and repair

■ **Paweł Kafarski**  
 professor  
 Head of the Department,  
 Dean of the Faculty  
 Member of  
 the Biotechnology Committee

Laboratory of Bioorganic Chemistry  
 Institute of Organic Chemistry, Biochemistry and  
 Biotechnology  
 Faculty of Chemistry  
 Wrocław University of Technology  
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*i Biotechnologii*  
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**research area (key words):** drug design and synthesis, agrochemicals,  
 biocatalysis, allelochemistry

■ **Maria Teresa Kałużewska**  
Dr. Sci., lecturer

Chair of Molecular Biotechnology  
Institute of Technical Biochemistry  
Faculty of Biotechnology and Food Science  
Technical University of Łódź  
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**research area (key words):**

proteolysis (keratinolytic proteinases);  
immunochemical analysis (ELISA),  
immunoprecipitation, immunoblotting)

**application of research:**

degradation of keratinous waste materials,  
immunoscreening, application of antibodies to  
study enzymatic proteins

■ **Maria Kamińska**  
professor

Laboratory of Virology  
Department of Plant Protection  
Research Institute of Pomology and Floriculture  
*Pracownia Wirusologii*  
*Zakład Ochrony Roślin Sadowniczych*  
*Instytut Sadownictwa i Kwiaciarnictwa*  
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phone: (046) 833-20-21  
fax: (046) 833-32-28  
e-mail: mkaminsk@insad.pl

**research area (key words):**

viruses, phytoplasmas, detection, identification,  
ornamental plants (annual, under covers,  
perennials, shrubs, trees), vegetables crops  
horticulture, agronomy

**application of research:**

**description of commercial**

**product(s) (key words):**

methods of viruses and phytoplasmas detection,  
antiserum to ELISA for TSWV detection

**name of culture collection(s)**  
**(key words):**

test plants, viruses, phytoplasmas



**service(s) offered (key words):** detection of traditional diseases, detection and identification of new diseases or of unknown etiology

■ **Stanisław Kamiński**  
Ph.D., Director of  
the Laboratory

Laboratory for Molecular Biology  
Department of Animal Genetics  
University of Warmia and Mazury in Olsztyn  
*Laboratorium Biologii Molekularnej*  
*Katedra Genetyki Zwierząt*  
*Uniwersytet Warmińsko-Mazurski*  
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phone: (089) 523-47-14  
fax: (089) 523-47-14  
e-mail: stachel@uwm.edu.pl

**research area (key words):** SNPs in candidate QTLs of dairy cattle,  
DNA diagnostics in farm animals

**application of research:** animal breeding

**service(s) offered (key words):** DNA tests for genetic diseases in cattle and  
swine

■ **Krzysztof Kasprzak**  
associate professor  
Expert of the Ministry of  
Environment and Polish  
Chamber of Ecology

Polish Association of Sanitary Engineers and  
Technicians  
Poznań Branch  
*Polskie Zrzeszenie Inżynierów i Techników Sanitarnych*  
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ul. Wieniawskiego 5/8, 61-712 Poznań  
fax: (061) 853-72-96  
e-mail: kasprzakjk@poczta.onet.pl

**research area (key words):** utilization of organic waste, compost production

**application of research:** environmental protection

■ **Ewa Kępczyńska**  
professor  
Head of the Department

Chair of Plant Physiology and Biotechnology  
Department of Plant Biotechnology  
Faculty of Natural Sciences  
University of Szczecin  
*Katedra Fizjologii i Biotechnologii Roślin*  
*Zakład Biotechnologii*

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- research area (key words):** plant and microorganism physiology, hormonal regulation of micropropagation, somatic embryogenesis
- application of research:** improving of embryos and seed quality by plant growths regulators (increasing embryos and seeds vigor)
- service(s) offered (key words):** callus, micropropagation, matriconditioning of seeds, somatic embryos

■ **Jan Kępczyński**

professor  
Head of the Chair and  
Department

Chair of Plant Physiology and Biotechnology  
Department of Plant Physiology  
Faculty of Natural Sciences  
University of Szczecin  
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- research area (key words):** hormonal regulation of seed dormancy releasing and germination, somatic embryogenesis
- application of research:** improving of embryos and seed quality by plant growths regulators (increasing embryos and seeds vigor)
- service(s) offered (key words):** somatic embryos, matriconditioning of seeds

■ **Jadwiga Farbiszewska-Kiczma**

Ph.D., lecturer

Chair of Engineering Process  
Faculty of Natural and Technical Sciences  
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**research area (key words):** bioleaching, biodegradation  
**application of research:** ore and metalliferous waste materials enrichment  
**name of culture collection(s) (key words):** *Acidithiobacillus ferrooxidans* and *Acidithiobacillus thiooxidans*  
**description of culture collection(s):** autochthonic, mesophilic, chemolithotrophic bacteria obtained from leaching assigned materials  
**service(s) offered (key words):** bacterial leaching of lean ore and waste materials to obtain metals

■ **Józef Klocek**  
 Ph.D., lecturer  
 Laboratory of Plant Physiology and Cytology  
 Department of Genetic and Plant Physiology  
 Institute of Biology  
 University of Podlasie  
*Pracownia Fizjologii i Cytologii Roślin*  
*Zakład Genetyki i Fizjologii Roślin*  
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**research area (key words):** potato, *in vitro* culture, tuberization, jasmonic acid, fatty acid  
**application of research:** mechanism of tuberization; the effect of various factors on tuberization  
**description of commercial product(s) (key words):** potato plants  
**trade name(s):** cvs Irga, Irys, Anielka, Vineta, Orlik  
**specific features of products:** plantlets of potato plants  
**name of culture collection(s) (key words):** potato plants

**description of culture**

**collection(s):** potato plants growing on MS medium

**service(s) offered (key words):** multiplication of potato plants growing *in vitro*

■ **Hanna Kmita**

assistant professor

Laboratory of Bioenergetics

Institute of Molecular Biology and Biotechnology

Faculty of Biology

Adam Mickiewicz University

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*Instytut Biologii Molekularnej i Biotechnologii*

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**research area (key words):**

channels of the outer membrane of mitochondria, modulation of metabolite transport and protein import, yeast *S. cerevisiae*

■ **Marian Kochman**

professor

Division of Biochemistry

Institute of Organic Chemistry, Biochemistry

and Biotechnology

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**research area (key words):**

biochemistry molecular biology, biophysics, biotechnology

**application of research:**

protein engineering, protein expression, purification, crystallization



- **Janusz Kocik**  
 M.D., Ph.D.  
 biodefence expert
- Independent Section for Protection against  
 Bioterrorism  
 Military Institute of Hygiene and Epidemiology  
*Samodzielna Pracownia Ochrony przed Bioterroryzmem*  
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 fax: (022) 610-84-59  
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 januszkocik@hotmail.com
- research area (key words):** biodefence, biological agents misuse (including  
 GMO), real time microbial detection and  
 identification, real time epidemiological (medical)  
 surveillance tools, microbial medical  
 countermeasures (vaccines, drugs), proteomic and  
 bioinformatic tools in search for new  
 antimicrobial drugs and vaccines
- application of research:** new targets for drugs and vaccines
- **Aleksander Koj**  
 professor  
 Head of the Department
- Chair of Cell Biochemistry  
 Faculty of Biotechnology  
 Jagiellonian University  
*Zakład Biochemii Komórki*  
*Wydział Biotechnologii*  
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 ul. Gronostajowa 7, 30-387 Kraków  
 phone: (012) 664-63-36  
 fax: (012) 664-69-02  
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- research area (key words):** cytokine signalling, gene expression
- application of research:** biomedicine
- **Natalia Koniuszewska**  
 Foreign Agricultural Service  
 American Embassy in Warsaw
- American Embassy  
*Dział Rolny*  
*Ambasada Amerykańska w Warszawie*  
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 phone: (022) 504-23-36  
 fax: (022) 504-23-20  
 e-mail: agwarsaw@usda.gov

**service(s) offered (key words):** provides information on agricultural biotechnology in the U.S.; organizes training and conferences in the U.S. and Poland on biotechnology in agriculture. Promotion of the knowledge of genetically modified food

- **Andrzej K. Kononowicz** Department of Cytogenetics and Plant Molecular  
professor Biology  
Head of the Department Faculty of Biology and Environmental Protection  
University of Łódź  
*Zakład Cytogenetyki i Biologii Molekularnej Roślin*  
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**research area (key words):** plant molecular biology and genetics, plant biotechnology, plant genetic engineering, molecular mechanisms of plant response to environmental stress factors, plant *in vitro* cultures, plant cytochemistry, histochemistry and cytogenetics

**application of research:** plant biotechnology, construction of transgenic plants for recombinant protein production, phytoremediation, plant *in vitro* cultures – micropropagation, organogenesis and somatic embryogenesis

**name of culture collection(s):** collection of *Ipomoea batatas* (L.) Lam cultivars

**additional information:** transgenic plants of *Solanum tuberosum* and *Nicotiana tabacum* (W38) expressing staphylokinase – plasminogen activator of bacterial origin

- **Leonard Kopiński** Department of Chemical and Bioprocess  
Ph.D., lecturer Faculty of Chemical Technology and Engineering  
University of Technology and Agriculture



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 phone: (052) 374-90-66  
 fax: (052) 374-90-05  
 e-mail: kopinski@atr.bydgoszcz.pl

- research area (key words):** bioprocess and bioreactor engineering, higher fungi, edible fungi, solid state fermentation, submerged fermentation, ligninocellulose, agricultural waste
- application of research:** development of bioreactors, production of edible fungal fruit bodies and fungal biomass, bioprocess engineering, food industry

■ **Małgorzata Korbin**  
 Ph.D.  
 Head of the Laboratory

Laboratory of Unconventional Breeding Methods  
 Fruit Breeding Department  
 Research Institute of Pomology and Floriculture  
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 fax: (046) 833-32-28  
 e-mail: mkorbin@insad.pl

- research area (key words):** plant transformation, molecular markers, plant genome mapping, distant hybridization using embryo rescue technique
- application of research:** creation of new fruit plant genotypes (suitable for sustainable production and consumer market) by biotechnology (genetic modification and distant hybridization), generation of different molecular markers for fruit plant identification, determination of genotypes relationship level, Marker Assisted Selection (MAS) based on apple genome map
- service(s) offered (key words):** fruit plants; molecular identification; MAS; genetic modification; embryo rescue

- **Iwona Kosieradzka** Department of Animal Nutrition and Feed Science  
Ph.D., assistant professor Faculty of Animal Science  
Head of the Analytical Warsaw Agricultural University  
Laboratory *Katedra Żywienia Zwierząt i Gospodarki Paszowej*  
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*Szkoła Główna Gospodarstwa Wiejskiego*  
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fax: (022) 853-09-27  
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**research area (key words):** bioevaluation of feeds, nutritional value of transgenic plants, digestibility, nutritional safety of GMO, rats, antioxidant status, degradation of animal DNA, immunological, biochemical, hematological parameters

**application of research:** evaluation of transgenic food and feed

- **Jerzy Wiesław Kosieradzki** AMERICAN SOYBEAN ASSOCIATION  
Representative for Poland, Regional Office – Europe & Maghreb,  
Czech Republic and Slovakia Brussels, Belgium  
Office in Poland – for Poland, Czech Republic  
and Slovakia  
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**application of research:** dissemination of research and technical information to decision makers, producers and traders *via* publications, seminars, conferences and workshops; influencing legislation and industry standards in the U.S., EU and other countries; international agricultural markets, trade policy monitoring, production and trade servicing; grain and soybean trade and financing, feed manufacturing, livestock production and marketing, soy food manufacturing and use, health and nutritional aspects of soy in human diet



- description of commercial product(s) (key words):** soybeans, Round-up-Ready soy, Identity Preserved soybeans, soymeal, fullfat soy, by-pass soy protein products, soyfoods
- service(s) offered (key words):** grain and soybean trade, safety of GM crops and foods, safety of GM soybeans, regulations on GM soybeans, specialty soy products purchasing and use, soy in animal nutrition, soy in aquaculture, soy in ruminant nutrition, industrial processing of soy, soy in biodiesel, publications, training, consulting
- additional information:** ASA is a "contact point" and "centre for trade and technical information" for companies and professionals who deal with soybeans and soy derived products, including GM products, in animal nutrition, feed compounding, human consumption, industrial processing in the area of legal regulations and trading and processing and use. We do not handle physical trade but we support trade and use with all means related to information and education

■ **Agnieszka Korwin-Kossakowska**  
Ph.D.

Department of Immunogenetics  
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Kosowska  
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- research area (key words):** animal genetics, molecular genetics, animal reproduction

■ **Piotr Kossobudzki**  
M.Sc.

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**research area (key words):** science journalism, public perception of science, public participation, science promotion, knowledge-based society

■ **Elżbieta Kostyra**

professor

Head of the Department

Department of Biochemistry

Faculty of Biology

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**research area (key words):** biologically active peptides from food, protein and peptide antimicrobiological substances derived from plants

**application of research:** preparation of new indicators of food quality, e.g. opioid activity of food products

■ **Henryk Kostyra**

professor

Head of the Department

Member of the Biotechnology Committee

Department of Food Chemistry

Division of Food Science

Institute of Animal Reproduction and Food Research

Polish Academy of Sciences

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- research area (key words):** biologically active food proteins and peptides, interaction food proteins – non-enzymatic glycosylation of food proteins, immunogenic and allergic food proteins and peptides
- application of research:** determination of opioid peptides and allergens in food, transfer of the knowledge about food allergens to the industry

■ **Dariusz W. Kowalczyk**  
associate professor

Chair Oncology  
Department of Cancer Immunology  
Poznań University of Medical Sciences  
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*Zakład Immunologii Nowotworów*  
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- research area (key words):** immunology, tumor biology, gene therapy, biotechnology
- application of research:** development of novel approaches for cancer treatment

■ **Jacek Koziol**  
professor emeritus

Chair of Instrumental Analysis  
Faculty of Commodity Science  
Poznań University of Economics  
*Katedra Analizy Instrumentalnej*  
*Wydział Towaroznawstwa*  
*Akademia Ekonomiczna*  
al. Niepodległości 10, 60-967 Poznań  
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- research area (key words):** photochemistry, phototautomerism, human nutrition, instrumental analysis, quality evaluation

■ **Maria Koziolkiewicz**  
professor

Institute of Technical Biochemistry  
Faculty of Biotechnology and Food Sciences  
Technical University of Łódź  
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*Wydział Biotechnologii i Nauk o Żywności*  
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**research area (key words):** bioorganic chemistry: chemistry and biochemistry of nucleic acids, oligonucleotides, nucleolytic enzymes, nucleotide receptors, signal transduction; food biochemistry: flavonoids, isothiocyanates, plant storage proteins

■ **Arkadiusz Kozubek**  
professor  
Head of the Department,  
Director of the Institute

Department of Lipids and Liposomes  
Institute Biochemistry and Molecular Biology  
University of Wrocław  
*Zakład Lipidów i Liposomów*  
*Instytut Biochemii i Biologii Molekularnej*  
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e-mail: kozubek@ibmb.uniwroc.pl

**research area (key words):** phenolic lipids, alkyl resorcinols, liposomes, supra molecular drug carriers

**application of research:** agriculture, human and animal nutrition, biomarkers, pharmacology and pharmaceuticals, cosmetology, dermatology

**service(s) offered (key words):** determination of the supramolecular drug carrier's properties – size distribution, Zeta potential, encapsulation analysis of alkyl resorcinols in cereal products (qualitative and quantitative)



- Janusz Krata** *Bayer CropScience*  
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 and Communication fax: (022) 572-36-03  
 Manager, Central and Eastern e-mail: janusz.krata@bayercropscience.com  
 Europe
- research area (key words):** legislation, registration, education and public communication
- Aleksandra Królicka** Department of Plant Protection and  
 Ph.D., researcher and lecturer Biotechnology  
 Intercollegiate Faculty of Biotechnology  
 University of Gdańsk – Medical University  
 of Gdańsk  
*Katedra Biotechnologii*  
*Zakład Ochrony i Biotechnologii Roślin*  
*Międzyuczelniany Wydział Biotechnologii*  
*Uniwersytetu Gdańskiego i Akademii Medycznej*  
*w Gdańsku*  
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 phone: (058) 301-22-41 ext. 315  
 fax: (058) 301-28-07  
 e-mail: krolicka@biotech.univ.gda.pl
- research area (key words):** micropropagation, secondary metabolites,  
 transformation of *Agrobacterium rhizogenes*, hairy  
 roots, bacteriostatic and cytotoxic
- application of research:** examination of secondary metabolites for their  
 bacteriostatic and cytotoxic activity
- name of culture collection(s)**  
**(key words):** carnivorous and orchids plants
- description of culture**  
**collection(s):** Drosera – 8 species, Dionea – 1, Sarracenia –  
 4 species, orchids – 18 species
- service(s) offered (key words):** examination of secondary metabolites for their  
 bacteriostatic and cytotoxic activity

- Lucyna Kątska-Książkiewicz**  
 professor  
 Laboratory *In Vitro* Embryo Production and Cell Culture  
 Department of Animal Reproduction  
 Biotechnology, Immuno- and Cytogenetics  
 National Research Institute of Animal Production  
*Laboratorium Produkcji Zarodków In Vitro i Hodowli Komórkowych*  
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 fax: (012) 285-51-62  
 e-mail: lkatska@izoo.krakow.pl
- research area (key words):** embryology, animal reproduction  
**application of research:** *in vitro* embryo production in farm animals, bovine preantral follicle culture, cell culture for animal cloning
- Krzysztof Kucharczyk**  
 Ph.D., C.E.O.  
 management  
 Krzysztof Kucharczyk; Techniki Elektroforetyczne  
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 fax: (022) 668-71-64  
 e-mail: kucharczyk@kucharczyk.com.pl
- research area (key words):** genotyping methods, DNA/RNA and protein analysis methods, drug discovery  
**application of research:** medical, agro-veterinary, forensic, life sciences R&D  
**description of commercial product(s) (key words):** DNA/RNA protein electrophoretic equipment and biochemical kits, genotyping equipment western blotting equipment, polyclonal antibody production  
**trade name(s):** MSSCP method, DNA Pointer System  
**specific features of products:** DNA Pointer System: time and cost effective genotyping system for population and genome wide discovery  
**service(s) offered (key words):** genotyping, polyclonal antibody production, DNA/RNA/protein analysis



- **Danuta Kucharska**  
M. Sc., researcher
- Laboratory of Biotechnology of Ornamental Plants  
Research Institute of Pomology and Floriculture  
*Laboratorium Zakład Biotechnologii Roślin Ozdobnych*  
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fax: (046) 833-20-88  
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- research area (key words): micropropagation, *in vitro* culture regeneration, adventitious shoots, rose, ornamental plants
- application of research: transformation and regeneration
- **Zofia Szwejkowska-Kulińska**  
professor  
Director of the Institute
- Department of Gene Expression  
Institute of Molecular Biology and Biotechnology  
Faculty of Biology  
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- research area (key words): plant molecular biology, posttranscriptional gene silencing, protein targeting, micro-arrays
- application of research: plants under drought stress
- **Ewa Kurek**  
professor
- Department of Environmental Microbiology  
Institute of Microbiology and Biotechnology  
Maria Curie-Skłodowska University  
*Zakład Mikrobiologii Środowiskowej*  
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**research area (key words):** bioremediation of contaminated soil, microbial transformation, cadmium mobility in soil, induction of plant resistance by pathogenic and nonpathogenic *Fusarium* spp. strains

■ **Michał Andrzej Kurowski**  
researcher  
Software Development and  
Maintainace

Laboratory of Bioinformatics and Protein  
Engineering – “GENESILICO”  
International Institute of Molecular and Cell  
Biology

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e-mail: [michal@genesilico.pl](mailto:michal@genesilico.pl)

**research area (key words):** protein structure prediction, phylogenomics,  
protein families structural annotation, protein  
docking

**application of research:** guidance for molecular biology experiments,  
discovering gene function, assessing  
bioinformatics software reliability

**description of commercial**

**product(s) (key words):** meta-server, resolving biological data problems

**trade name(s):** genesilico

**service(s) offered (key words):** web tools for protein structure prediction and  
comparison

■ **Jolanta Kuryl**  
professor  
Deputy Director (Research)

Department of Animal Immunogenetics  
Institute of Genetics and Animal Breeding  
Polish Academy of Sciences

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**research area (key words):** animal genetics, molecular genetics, genome mapping, gene mutations, quantitative traits loci  
**application of research:** identification of genetic diseases (inherited diseases) in farm animals

■ **Łukasz Kuźma**  
 M.Sc., researcher

Department of Biology and Pharmaceutical Botany  
 Faculty of Biology and Biotechnology  
 Medical University of Łódź  
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*Zakład Biologii i Botaniki Farmaceutycznej*  
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 ul. Muszyńskiego 1, 90-151 Łódź  
 phone: (042) 677-91-63  
 e-mail: botanika@pharm.am.lodz.pl

**research area (key words):** plant biotechnology  
**application of research:** micropropagation and production of secondary metabolites

■ **Jacek Kuźmak**  
 Ph.D., Sc.D.

Scientific Secretary of the National Veterinary  
 Research Institute  
 Head of Department of Biochemistry  
 Member of the Biotechnology Committee Polish  
 Academy of Sciences  
 Department of Biochemistry  
 National Veterinary Research Institute  
*Zakład Biochemii*  
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**research area (key words):** ruminant retroviruses, molecular diagnosis, pathogenesis of retroviral infection  
**application of research:** development of ELISA and western blotting based on *E. coli* expressed bovine immunodeficiency

- virus* (BIV) and *Maedi visna* (MVV) core protein p25; isolation and molecular characterization of *bovine leukemia virus* (BLV) and *Maedi visna virus* genetic variants; application of PCR for detection of proviral DNA of BLV and MVV in cattle and sheep
- description of commercial product(s) (key words):** bovine leukemia virus antigen for immunodiffusion test. Positive and negative BLV control sera. BLV-specific bovine immunoglobulin class IgG, IgM
- specific features of products:** BLV antigen containing GP51 and P24 protein of BLV. A2 positive serum containing anti-GP51 antibodies
- name of culture collection(s) (key words):** FLK, FBL, GSM, CF2Th, MDBK
- description of culture collection(s):** fetal lamb kidney cells infected with BLV (FLK-BLV), fetal bovine lung cells infected with BIV (FBL-BIV), goats synovial membrane cells infected with MVV (GSM-MVV), canine epithelial cells (CF2Th), medin-darby cells (MDBK)
- service(s) offered (key words):** serological diagnosis of BLV, MVV infection, detection of BLV-DNA, purification of bovine immunoglobulins, production of antibodies using mouse and rabbit system

■ Ewa Kwapisz  
Ph.D., lecturer  
researcher

Faculty of Biotechnology and Food Sciences  
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- research area (key words):** environmental biotechnology, biodegradation of hydrocarbons, enzymes and citric acid microbial synthesis
- application of research:** microorganisms and technology of bioremediation of environment polluted by hydrocarbons



- description of commercial product(s) (key words):** bacterial strains (microbial consortiums) for biodegradation of fuel oil hydrocarbons, technology of biodegradation
- specific features of products:** high effectiveness of hydrocarbons biodegradation under aerobic and denitrifying conditions
- name of culture collection(s) (key words):** microbial consortiums: JBT 1, JBT 2, IBT 3
- description of culture collection(s):** microorganisms degrading mixture of aliphatic, aromatic and poliaromatic hydrocarbons
- service(s) offered (key words):** remediation technology of: ground water, soil, slurry, polluted with hydrocarbons

- **Stanisław Ledakowicz**  
 professor  
 Head of the Department
- Department of Bioprocess Engineering  
 Faculty of Process and Environmental Engineering  
 Technical University of Łódź  
*Katedra Inżynierii Bioprosesowej*  
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 stanleda@wipos.p.lodz.pl

- research area (key words):** biochemical engineering, bioprocess engineering, environmental biotechnology, down stream processing, chemical and biochemical reactors modeling
- application of research:** biodegradation of municipal solid wastes (MSW), co-fermentation of sewage sludge and MSW, separation of organic acids, biosorption and biotransformation of heavy metals
- service(s) offered (key words):** consulting in: bioprocessing of wastewater and solid wastes (organic fraction); mercury removal from wastewater; decolorization of wastewater, biomass pyrolysis and gasification

■ **Eleonora Ledóchowska**  
assistant professor

Department of Chemistry, Technology  
and Biotechnology of Foods  
Chemical Faculty  
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**research area (key words):** chemistry, technology and analysis of lipids,  
physical, chemical and biotechnological  
modification of lipids (chemical and enzymatic  
transestrification)

■ **Andrzej Legocki**  
professor  
President of the Polish  
Academy of Sciences

Laboratory of Plant Molecular Biology  
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**research area (key words):** plant molecular biology, symbiotic nitrogen  
fixation, eatable plant vaccines, molecular  
biology of stress in plant system

**application of research:** plant molecular biotechnology



**■ Przemysław Lehmann**

Ph.D., assistant professor

Head of Research Group  
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**research area (key words):** plant molecular biology, transgenic plants, virus resistance, hypersensitive response, gene silencing, RNAi, suppressor of RNA silencing, oilseed rape

**application of research:** agriculture

**■ Barbara Lejczak**

professor

Head of the Department

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Institute of Organic Chemistry, Biochemistry  
and Biotechnology  
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**research area (key words):** biocatalysis, biotransformations, biodegradations

**application of research:** chemical synthesis, agriculture, environmental pollution control

■ **Andrzej Leonowicz**  
professor

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- research area (key words):** lignin, laccase, fungal enzymes, lignin biotransformation, wood rotting fungi
- application of research:** preventing of tress biodegradation
- description of commercial product(s) (key words):** preparations of fungal enzymes
- trade name(s):** laccase, lignin peroxidases
- name of culture collection(s) (key words):** FCL – fungal collection of Lublin
- description of culture collection(s):** collection of wood rotting fungi
- service(s) offered (key words):** fungal strains from collection, consultations

■ **Władysław Leśniak**  
professor

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- research area (key words):** organic acid biosynthesis, enzyme biosynthesis, yeast cultivation, food biotechnology, fermentation
- application of research:** food production



- **Zbigniew Leśnikowski**  
Ph.D., D.Sc., associate  
professor  
Head of the Laboratory
- Laboratory of Molecular Virology and Biological  
Chemistry  
Center for Medical Biology  
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- research area (key words):** chemistry of nucleic acids, DNA-oligonucleotides and their components containing boron and metal complexes, molecular probes, cytomegalovirus (HCMV) diagnostics
- application of research:** antisense oligonucleotide therapy (AOT), boron carriers for BNCT of tumors, antiviral agents, electrochemical labeling of biomolecules, bioinorganic materials
- description of commercial product(s) (key words):** products in development:  
1) stereodefined methylphosphonate oligonucleotide probes for study on stereochemistry of nucleic acid interactions (know-how),  
2) PCR based HCMV detection kit (patent application pending: P-344762),  
3) metallocarborane containing DNA-oligonucleotides as new bioinorganic material (patent applications pending: P-359949 and P-360228 and PCT/PL 04/00030)
- trade name(s):** ad 1) "Stereoprobe"
- specific features of products:** ad 1) The "Stereoprobe" [stereodefined methylphosphonates (MP) oligonucleotides] can be used to map phosphate contacts critical for nucleic acid recognition by proteins, DNA bending, antisense interactions, DNA hydration, triplex formation, DNA topology and others. The technology for preparation of "Stereoprobe" is grounded on the unique method of the

stereoselective formation of internucleotide linkage developed in our laboratories

ad 2) A single tube PCR test (working name: CmiW2) with three primers for the detection of human cytomegalovirus (HCMV) DNA in clinical specimens. The CmiW2 test in a single tube format offers several advantages over the conventional PCR procedures

ad 3) Metallocarborane complexes are proposed as versatile modifying entity for incorporation of metals and heteroatoms into nucleic acids components. Metallocarborane cage can be used as well for the modification of other biologically important molecules such as amino acids, lipids or proteins. The invention provides new bioinorganic material for potential use in therapy, diagnostics, nanotechnology and others.

**description of culture**

**collections:**

cell lines: MRC-5, L929, A549, P388D<sub>1</sub>, Vero, 7TD1, virus lines: VSV, EMCV, HSV-1, NDV, HCMV

**service(s) offered (key words):**

custom synthesis of "Stereoprobe", HCMV detection in various clinical specimens

■ **Zdzisława Libudzisz**  
professor  
Director of the Institute

Institute of Fermentation Technology  
and Microbiology  
Faculty of Biotechnology and Food Sciences  
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**research area (key words):**

lactic acid bacteria, physiology, metabolism, nutritional requirements, strain heterogeneity, antagonistic activity, probiotic activity of



- application of research:** *Lactobacillus* and *Bifidobacterium* strains, as prebiotics and synbiotics. Food microbiology including microbiology of fermented foods bioconservation of food and modern methods of microbiological analysis
- name of culture collection(s):** probiotic preparations, animal feed supplemented with lactic acid bacteria  
Culture Collection of Industrial Microorganisms  
LOCK 105
- description of culture collection(s):** The culture collection of the Institute of Fermentation Technology and Microbiology registered in the catalogue of World Federation of Culture Collections (WFCC) as Lock 105. The collection maintains 650 strains of yeasts, filamentous fungi and bacteria for traditional and modern biotechnological processes. It supplies production strains for fruit wine industry, alcohol industry and breweries in Poland
- service(s) offered (key words):** Identification and diagnostics of microorganisms (bacteria, yeasts and filamentous fungi). Microbiological, analysis of food and environment, biodeterioration tests of industrial, materials (plastic, wood, paints, electric wires, electronic parts). Optimization of industrial, biotechnological processes (growth conditions and media composition). Industrial strains maintenance. Consulting

■ **Anna Lisek**  
Ph.D., lecturer

Department of Cultivar Evaluation, Genetic Resources and Nurseries  
Research Institute of Pomology and Floriculture  
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**research area (key words):** *in vitro* culture, molecular markers  
**application of research:** long-term storage of *in vitro* culture, identification of fruit tree cultivars by molecular markers

■ **Sylvia Łabuzek**  
associate professor  
Head of the Department  
Member of the Biotechnology  
Committee

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**research area (key words):** biochemistry, biotechnology, biochemistry of microorganisms, biodegradation of xenobiotics, environmental biotechnology  
**application of research:** biodegradation of xenobiotics and genetic control; biodegradation of modified synthetic polymers by microorganisms; bioaccumulation of metals by microorganisms; biosynthesis of PHB biopolymers of bacteria

■ **Maciej Ładyżyński**  
Ph.D.

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**research area (key words):** protoplasts fusion, cell suspension, bioreactor culture  
**application of research:** plant breeding



■ **Maria Łebkowska**  
professor

Head of the Department  
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Institute of Environmental Engineering Systems  
Faculty of Environmental Engineering  
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- research area (key words):** ecotoxicology, biodegradation, soil bioremediation, biosorption, metal leaching, biofiltration of gases, water biotreatment, waste treatment
- application of research:** soil biotreatment, heavy metal removal from wastes and sludges, ecotoxicological tests, biodegradation of petroleum products
- description of commercial product(s) (key words):** methods of biotechnology in environmental protection
- name of culture collection(s) (key words):** "Biorem" cultures for soil biotreatment, petroleum products removal
- service(s) offered (key words):** soil biotreatment, heavy metals removal from wastes and sludges, gas biofiltration, cooling emulsion biotreatment, ecotoxicological and biodegradation tests
- additional information:** drinking water biofiltration, ventilation systems control, microbial corrosion, hydrobiology and microbiology of wastes, surface water and air

■ **Ewa Łojkowska**  
professor

Department of Plant Protection  
and Biotechnology  
Intercollegiate Faculty of Biotechnology  
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- research area (key words):** bacterial plant pathogens detection, identification and differentiation; production of plant secondary metabolites in *in vitro* culture
- application of research:** methods for detection and identification of bacterial pathogens; examination of bacteriostatic and cytotoxic activity of plant secondary metabolites
- name of culture collection(s) (key words):** collection of *Erwinia strains* (about 1500 isolates) in -80°C  
collection of *Carnivorous plants* in *in vitro* cultures (15 species)  
collection of *in vitro* culture of orchid (18 species)
- service(s) offered (key words):** identification of plant pathogenic bacteria  
examination of bacteriostatic and cytostatic activity of plant metabolites

■ **Wiesław Makarewicz**  
professor  
Head of the Chair  
Rector of the Medical  
University of Gdańsk

Chair of Medical Biotechnology  
Department of Molecular Enzymology  
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- research area (key words):** enzymes of purine metabolism
- application of research:** biomedicine



■ **Elżbieta**

**Dernałowicz-Malarczyk**

professor

Manager of Research Group

Biochemistry Department

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*Zakład Biochemii*

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**research area (key words):**

oxizymes, antioxidants, demethylation in fungi, mushrooms, *Actinomyces*

**application of research:**

biodegradation of dyes and phenols, regulation of demethylation processes, detoxication of environment with fungal material

■ **Stefan Malepszy**

professor

Head of Interfaculty Study of Biotechnology

Vice-Chairman of the

Biotechnology Committee

Department of Plant Genetics Breeding and Biotechnology

Faculty of Horticulture and Landscape Architecture

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**research area (key words):**

cucumber, somatic embryogenesis, gene regulation, gene cloning, transgenics

**application of research:**

co-author of 4 patents – 3 for clonal propagation, one for biotechnological riboflavin production in cucumber liquid culture, coauthor of 2 varieties

**name of culture collection(s)**

**(key words):**

8 groups of homozygous transgenic lines, each contain 4 to 20 independent transformants; 40 somaclonal mutants; 12 mitochondrial mutants;

system for riboflavin overexpression in cucumber liquid culture. All of them with the same genetic background

**description of culture**

**collection(s):**

transgenic lines contain – *Iaa* Monooxygenase, thaumatin, 2 different dehydrins; apoplasmic invertase from *S. cerevisiae*, malate dehydrogenase from *B. napus*, reporter genes

**service(s) offered (key words):**

cucumber transgenics production; system of cucumber stable transformation analysis on the cell level, cucumber propagation in a liquid culture

■ **Arleta Malewska**

Ph.D., owner

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**service(s) offered (key words):**

training, organization of courses, workshops, conferences

■ **Tadeusz Malewski**

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Department of Molecular Biology

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**research area (key words):**

genomics, bioinformatics, regulation of transcription

**application of research:**

biotechnology



■ **Janusz J. Malinowski**  
Ph.D., researcher

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**research area (key words):** bioprocess engineering, downstream separation, immobilization, liquid-liquid extraction  
**application of research:** microstructured reactors, immobilization of enzymes, mesoporous materials, sol-gel thin films  
**service(s) offered (key words):** characterization of mesoporous materials (BET, BJH methods)

■ **Grażyna Mańkowska**  
M.Sc., researcher

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**research area (key words):** anther cultures, *Linum usitatissimum* L., androgenesis, flax regeneration  
**description of commercial product(s) (key words):** seeds of the new cultivars (FLAX, HEMP)  
**trade name(s):** fibrous variety FLAX- "KLARA"  
**specific features of products:** seeds, quality fibre, resistance on disease  
**name of culture collection(s) (key words):** anther cultures,

**description of culture collection(s):** obtaining of double haploid plants (FLAX) through anther cultures (androgenesis) for plant breeding

- **Waldemar Marczewski**  
associate professor  
Plant Breeding and Acclimatization Institute  
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- research area (key words): *Solanaceae*, genetic mapping, PCR markers, resistance genes, plant-microbe interactions  
application of research: marker-assisted selection in crop plants
- **Agata Markowska**  
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Institute of Chemical and Environment Engineering  
Faculty of Chemical Engineering  
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- research area (key words): technical microbiology, environment biotechnology  
application of research: methane-utilizing bacteria
- **Cezary Jerzy Mądrzak**  
associate professor  
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Faculty of Agriculture  
August Cieszkowski Agricultural University  
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- research area (key words):** plant molecular biology, plant-microbe interactions, symbiotic nitrogen fixation, structure and function of plant genes encoding enzymes involved in phenylpropanoid biosynthesis
- application of research:** molecular diagnostics of plant associated microorganisms

■ **Dariusz Michalczyk**  
Ph.D., lecturer

Chair of Plant Physiology and Biotechnology  
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- research area (key words):** plant tissue culture, transformation, secondary metabolism, micropropagation, phenolics, legumes, vegetables

■ **Korneliusz Miksch**  
professor  
Head of the Chair  
Member of the Biotechnology  
Committee

Chair of Environmental Biotechnology  
Faculty of Power and Environmental Engineering  
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- research area (key words):** environmental biotechnology, ecotoxycology
- application of research:** wastewater treatment, soil remediation, waste management, ecotoxycology

**description of commercial  
product(s) (key words):**

device for on-line measurement of microbial activity

- trade name(s):** activimeter/toximeter/sedimeter
- specific features of products:** devices for on-line monitoring of wastewater treatment plant (WWTP):
- located at the inlet to WWTP (toximeter) allows to warn of toxic substances in raw wastewater;
  - located directly in bioreactor (activimeter) allows to follow microorganisms activity and to optimise their work;
  - located at the outlet of WWTP (sedimeter) allows to detection of microorganisms in treated wastewater
- service(s) offered (key words):** monitoring and optimisation of wastewater treatment plant

■ **Anna Mikula**  
Ph.D.

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- research area (key words):** somatic embryogenesis, cell suspension, cryopreservation
- application of research:** plant breeding

■ **Zbigniew Miszalski**  
professor  
Head of the Department

Stress Biology Department  
Institute of Plant Physiology  
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**research area (key words):** antioxidative response, regulation of  
 antioxidative enzymes, C<sub>3</sub>, CAM metabolism,  
 pollution, SO<sub>2</sub>, O<sub>3</sub>, heavy metals

■ **Lucyna Misztal**

Ph.D., assistant professor

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**research area (key words):** ozone stress, drought stress, calcium dependent  
 protein kinases

■ **Tadeusz Miśkiewicz**

professor

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**research area (key words):** food technology, food biotechnology,  
 environmental biotechnology

**application of research:** baker's yeast production, wastewater treatment

- **Krzysztof Murzyn**  
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**research area (key words):** molecular modelling, bioinformatics, lipid membranes, peptide antibiotics  
**application of research:** computer-aided design of peptide antibiotics showing improved antibacterial and reduced hemolytic activity, pharmacology

- **Izabela Musiał**  
Ph.D., assistant professor

Department of Biotechnology and Food Microbiology  
Faculty of Food Science  
Agricultural University of Wrocław  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
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**research area (key words):** yeast biomass, lipid substrates, biosynthesis of organic acids from lipids  
**application of research:** biotechnology and food industry  
**service(s) offered (key words):** microbiological analysis

- **Krystyna Olańczuk-Neyman**  
professor  
Head of the Department

Department of Water and Wastewater Technology  
Faculty of Hydro and Environmental Engineering  
Gdańsk University of Technology  
*Katedra Technologii Wody i Ścieków*



*Wydział Budownictwa Wodnego i Inżynierii Środowiska  
Politechnika Gdańska*  
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**research area (key words):**

groundwater: quality, iron bacteria, manganese bacteria, sulphate reducing bacteria, biological treatment, biological stability,  
wastewater: biological treatment, bulking of activated sludge, pathogenic microorganisms,  
sea water: coastal bathing waters, bottom sediments, quality

**application of research:**

- application of the biological silica beds for iron, manganese, ammonium ion removal from groundwaters,
- the elimination of sulphate reducing bacteria (SRB) at ground water treatment plants,
- microbiological quality of effluents from biological wastewater treatment plants,
- determination of the efficiency of different methods for wastewater disinfection,
- estimation of microbiological quality of bathing waters, sand and air in coastal region,
- estimation of microbiological quality of the air in the regions of wastewater treatment plants and landfills

■ **Lubosława Nowaczyk**  
Ph.D.

Department of Genetics and Plant Breeding  
Faculty of Agriculture  
University of Technology and Agriculture  
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- research area (key words):** genetic improvement of plants, raw material for nutraceuticals, *Capsicum* spp.
- application of research:** new cultivars of *Capsicum annuum* L. for processing industry
- description of commercial product(s) (key words):** interspecific hybrids of *Capsicum frutescens* L. x *Capsicum annuum* L., soft flesh fruit
- specific features of products:** soft-flesh fruit with different capsaicinoids concentration as a raw material for nutraceuticals production
- name of culture collection(s) (key words):** *Capsicum frutescens* L., *Capsicum annuum* L., *Capsicum chinense* Jacq. genotypes
- description of culture collection(s):** interspecific hybrids, soft-flesh, capsaicinoids, biotechnological performance
- service(s) offered (key words):** *Capsicum* spp., capsaicinoids
- additional information:** gene bank of *Capsicum* spp.

- **Paweł Nowaczyk** Department of Genetics and Plant Breeding  
 professor Faculty of Agriculture  
 Head of the Department University of Technology and Agriculture  
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 fax: (052) 374-95-24  
 e-mail: warz@atr.bydgoszcz.pl

- research area (key words):** genetic improvement of plants, experimental embryogenesis, androgenesis, monoploids, raw material for nutraceuticals *Capsicum* spp.
- application of research:** new cultivars of *Capsicum annuum* L. for processing industry
- description of commercial product(s) (key words):** interspecific hybrids of *Capsicum frutescens* L. x *C. annuum* L., soft-flesh fruit
- specific features of products:** soft-flesh fruit with different capsaicinoids concentration as a raw material for nutraceuticals production



**name of culture collection(s)****(key words):**

*Capsicum frutescens* L., *Capsicum annuum* L.,  
*Capsicum chinense* Jacq. genotypes

**description of culture****collection(s):**

interspecific hybrids, soft-flesh, capsaicinoids,  
biotechnological performance

**service(s) offered (key words):**

*Capsicum* spp., capsaicinoids, Dh lines

**additional information:**

gene bank of *Capsicum* spp.

■ **Andrzej Nowak**  
professor

Department of Microbiology and Environmental  
Biotechnology  
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Agriculture University of Szczecin  
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**research area (key words):**

soil microflora, natural and anthropogenic factors  
influencing soil metabolism and soil biological  
activity, influence of stress factors on  
microorganisms

**application of research:**

soil microbiology, monitoring of the  
environmental influence of industry,  
optimalization of special microorganisms strains,  
soil remediation and recultivation, removing of  
oil substances from soils and water, biofiltration

**service(s) offered (key words):**

microbiological analyses, soil remediation and  
recultivation programmes

■ **Janina Rodakiewicz-Nowak**  
Ph.D., assistant professor

Laboratory of Enzymatic Catalysis  
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e-mail: ncrodaki@cyf-kr.edu.pl

**research area (key words):** enzymatic catalysis in non-conventional media (in organic solvents, micelles, water in oil microemulsions, at interfaces), biosensors and enzyme electrodes, oxidoreductases, in particular polyphenol oxidases

**application of research:** biotechnology, analytical chemistry, environmental protection

■ **Jerzy Nowak**

professor, M.D.

Director of the Institute

Member of the Biotechnology

Committee

Immunogenetics Unit

Institute of Human Genetics

Polish Academy of Sciences

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**research area (key words):** immunogenetics, cancer genetics, mutation and polymorphism of NBS-1, BRCA1, CHEK genes, rearrangement of TCR genes

**application of research:** diagnostics of some infectious diseases – CMV, HCV, HBV, TTV, MSRV

■ **Witold Nowak**

Ph.D., assistant professor

Institute of Molecular Biology and Biotechnology

Faculty of Biology

Adam Mickiewicz University

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**research area (key words):** molecular genetics of plants, plant transformation, drought stress

**application of research:** construction of transcriptional profiles, construction of vectors to plant transformation

■ **Aurelia Nowicka**

Ph.D., associate professor

European Law Chair  
Faculty of Law and Administration  
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ul. Św. Marcin 90, 61-809 Poznań  
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**research area (key words):** civil and commercial law, intellectual property law, including patent law, private international law, EC law

■ **Andrzej Okruszek**

professor  
Group Leader, Secretary  
of the Biotechnology  
Committee

Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
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*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź

**research area (key words):** bioorganic chemistry, chemical synthesis of modified nucleotides, modified oligonucleotides, nucleoside and nucleotide conjugates

■ **Maria J. Olszewska**  
professor emeritus

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Biology  
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fax: (042) 635-44-23  
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**research area (key words):** plant molecular cytogenetics

■ **Anna Nadolska-Orczyk**  
Ph.D., associate professor  
researcher, Head of Genetic  
Transformation Laboratory

Plant Transformation and Cell Engineering  
Department  
Plant Breeding and Acclimatization Institute  
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e-mail: [a.orczyk@ihar.edu.pl](mailto:a.orczyk@ihar.edu.pl)  
www pages: <http://www.ihar.edu.pl/ZIKiT>

**research area (key words):** *Agrobacterium tumefaciens*, genetic transformation,  
transgenic cereals: wheat (*Triticum aestivum* L.)  
barley (*Hordeum vulgare* L.), triticale (*Triticale*), oat  
(*Avena sativa* L.), transgenic pea (*Pisum sativum* L.),  
transgene expression, transgene silencing

**application of research:** genetic modification of cultivars for plant  
breeding or industry

■ **Wacław Orczyk**  
Ph.D., associate professor  
Head of the Department

Plant Transformation and Cell Engineering  
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Plant Breeding and Acclimatization Institute  
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 fax: (022) 725-47-14  
 e-mail: w.orczyk@ihar.edu.pl  
 www pages: <http://www.ihar.edu.pl/ZIKiT>

**research area (key words):** somatic cell genetics (*Solanum*), genetic transformation, *Agrobacterium tumefaciens*, cereals, analysis of factors responsible for gene expression, gene silencing and RNAi

**application of research:** genetic modification of selected traits useful in plant breeding (cereals, *Solanum*), formation of somatic hybrids for potato breeding (*Solanum*)

■ **Włodzimierz Ostrowski**  
 professor emeritus  
 former President of the  
 Biotechnology Committee  
 and Vice-President of the  
 Polish Academy of Sciences

Institute of Medical Biochemistry  
 Collegium Medicum  
 Jagiellonian University  
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 phone: (012) 422-32-72  
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**research area (key words):** biochemistry and general biotechnology

■ **Małgorzata Pacholewska**  
 Ph.D., researcher  
 The Member  
 of Commission  
 of Environmental Protection  
 and Waste Utilisation, Polish  
 Academy of Science, Branch  
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 Faculty of Materials Science and Metallurgy  
 Silesian University of Technology  
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*Zakład Metali Niezależnych*  
*Wydział Inżynierii Materiałowej i Metalurgii*  
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 fax: (032) 603-41-89  
 e-mail: malg@polsl.katowice.pl

**research area (key words):** biohydrometallurgy, bioleaching of sulphide minerals from ores, hydrometallurgy of non-ferrous metals, physicochemistry of metallurgical processes

**application of research:** biohydrometallurgical technologies

**name of culture collection(s)**

**(key words):** *Chemolithoautotrophic* bacteria, *Acidithiobacillus ferrooxidans* strains F1-02, F2-02, F3-02, F1-03, F2-03; *Acidithiobacillus thiooxidans* strains T1-02, T2-02, T3-02, T4-02, T5-02

**description of culture**

**collection(s):** *Acidophiles*; iron-and sulphur oxidizing bacteria, isolated from carbonated ferruginous mineral water (Piwniczna region) and from acid mine drainage (Częstochowa region)

■ **Andrzej Pałucha**

Ph.D., assistant professor  
Group Leader

Department of Protein Biosynthesis  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biosyntezy Białka*  
*Instytut Biochemii i Biofizyki*  
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ul. Pawińskiego 5A, 02-106 Warszawa  
phone: (022) 592-34-11  
e-mail: alfap@ibb.waw.pl

**research area (key words):** plant virus, virus-like particles, infectious clones

**application of research:** plant virus based vectors, virus-like particles as RNA/DNA/PNA carriers

**service(s) offered (key words):** RFLP, RAPD, AP-PCR, RT-PCR, sequencing, cloning

■ **Tadeusz Pawełczyk**

professor  
Head of the Department

Department of Molecular Medicine  
Medical Faculty  
Medical University of Gdańsk  
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*Wydział Lekarski*  
*Akademia Medyczna*  
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phone: (058) 349-27-50  
 fax: (058) 349-27-59  
 e-mail: tkpaw@amg.gda.pl

**research area (key words):** diabetes, hypertension, cancerogenesis, oncogenes, recombinant proteins, phospholipids, phospholipase C, nucleoside transporters, adenosine receptors

**application of research:** medicine: diagnostics, patogenesis

**service(s) offered (key words):** production and purification of recombinant proteins

■ **Bożena Pawlowska**  
 Ph.D.

Department of Ornamentals  
 Faculty of Horticulture  
 Agricultural University  
*Katedra Roślin Ozdobnych*  
*Wydział Ogrodniczy*  
*Akademia Rolnicza*  
 Al. 29 Listopada 54, 31-425 Kraków  
 phone: (012) 662-52-43  
 e-mail: ropawlow@cyf-kr.edu.pl

**research area (key words):** ornamental plants, protected plants, bulbous plants

■ **Andrzej Piekarowicz**  
 professor  
 Head of the Laboratory

Laboratory of Molecular Virology  
 Institute of Microbiology  
 Faculty of Biology  
 Warsaw University  
*Laboratorium Wirusologii Molekularnej*  
*Instytut Mikrobiologii*  
*Wydział Biologii*  
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 ul. Miecznikowa 1, 02-096 Warszawa  
 phone: (022) 554-14-17  
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**research area (key words):** role of the DNA methylation in bacteria and bacteriophages

**application of research:** cloning of the restriction endonucleases and DNA methyltransferases

**description of commercial product(s) (key words):** clones expressing restriction endonucleases

■ **Jacek Pielecki**  
Ph.D., lecturer

Department of Food Technology and Storage  
Faculty of Agriculture  
Agricultural University  
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i Przechowalnictwa*  
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**research area (key words):** production of cellulases, inulinase and invertase by microorganisms, like: *K. marxianus* and *A. niger*

**application of research:** isolation and purification of inulinase and invertase, production of fructooligosaccharides from inulin

■ **Jerzy Jan Pietkiewicz**  
D.Sc., Ph.D.

Food Biotechnology Department  
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Faculty of Engineering and Economics  
Wrocław University of Economics  
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**research area (key words):** cell culture, food biotechnology, bioengineering, industrial microbiology, microbial biosynthesis



- application of research:** yeast production, citric acid production, acetic acid production, bioreactors, new food products development
- description of commercial product(s) (key words):** yeast, acetic acid, citric acid, laboratory bioreactors, bioproducts

■ **Tadeusz Pietrucha**  
Ph.D., D.Sc., assistant professor  
Head of the Laboratory

Laboratory of Medical Biotechnology  
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Medical University of Łódź  
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*Zakład Biochemii*  
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phone: (042) 678-06-20 ext. 254  
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**research area (key words):** haemostasis, thrombosis, genetic polymorphism, clotting factors, cardiovascular diseases, genetic determination of thrombosis and haemostasis

**application of research:** molecular diagnostic, genomics  
**additional information:** Founder and CEO of Bio-Tech Consulting company ([www.biotechnologia.pl](http://www.biotechnologia.pl)). The company offers consulting in biotechnology and biobusiness areas. In addition to business activity, company's mission is to build close connection and foster cooperation between Polish bioscience and industry communities. The annually organized meetings (Bio-Forum: [www.bioforum.pl](http://www.bioforum.pl)) gather people representing both (scientific and industry) areas. Bio-Tech Consulting is also contributing to the information and education mission tasks by editing internet portals: *Serwis Biotechnologiczny* ([www.biotechnologia.com.pl](http://www.biotechnologia.com.pl)) and *Biotechnology and Biobusiness News* ([www.biotechnology-pl.com](http://www.biotechnology-pl.com)).

■ **Andrzej Pisula**  
professor

Laboratory of Meat Technology  
Faculty of Food Technology  
Warsaw Agricultural University  
*Zakład Technologii Mięsa*  
*Wydział Technologii Żywności*  
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phone: (022) 853-09-58  
fax: (022) 853-09-58  
e-mail: pisula@alpha.sggw.waw.pl

**research area (key words):** meat chemistry, biochemistry, post-mortem changes and their effect on quality of meat and meat products, new technologies for meat processing

**application of research:** meat industry plants

■ **Michał Pławuszewski**  
M. Sc.

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Institute of Natural Fibres  
*Laboratorium Biotechnologii*  
*Instytut Włókien Naturalnych*  
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fax: (061) 841-78-30  
e-mail: michalp@inf.poznan.pl

**research area (key words):** hemp (*Cannabis sativa L.*), organogenesis, plant *in vitro* culture, heavy metals, phytoremediation

**application of research:** organogenesis in hemp (*Cannabis sativa L.*) as a method of *in vitro* selection of plant tolerant to heavy metals

**name of culture collection(s)**  
**(key words):**

hemp plant *in vitro* culture

■ **Andrzej Płucienniczak**  
professor  
Scientific Director  
Member of the Biotechnology  
Committee

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**research area (key words):** recombinant bacteria  
**application of research:** preparation of proteins from recombinant *E. coli*  
**description of commercial product(s) (key words):** human insulin, human interferons, human growth hormone

**■ Waldemar Podgórski**  
 Ph.D., D.Sc., assistant professor

Department of Food Biotechnology  
 Institute of Chemistry and Food Technology  
 Engineering and Economics Faculty  
 Wrocław University of Economics  
*Katedra Biotechnologii Żywności*  
*Instytut Chemii i Technologii Żywności*  
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 ul. Komandorska 118/120, 53-345 Wrocław  
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**research area (key words):** food biotechnology, environmental biotechnology, organic acids biosynthesis, biodegradation of wastes  
**application of research:** agriculture and food production

**■ Ryszard Pohorecki**  
 professor  
 Director, Center of Biotechnology, Warsaw University of Technology  
 Member of the Biotechnology Committee

Chair of Chemical Reactors and Bioprocess Engineering  
 Faculty Chemical and Process Engineering  
 Warsaw University of Technology  
*Zakład Reaktorów Chemicznych i Bioprocessów*  
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**research area (key words):** chemical reactor engineering, bioreactor engineering, heat and mass transfer  
**application of research:** cyclohexane oxidation, trioxane synthesis  
**description of commercial product(s) (key words):** engineering processes/licences

■ **Jacek Polak**  
Ph.D., lecturer

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**research area (key words):** molecular biology, gene cloning, biotechnology, environmental biotechnology  
**application of research:** food technology, environmental protection  
**service(s) offered (key words):** gene isolation and characterization, gene cloning, DNA analysis

■ **Antoni Polanowski**  
professor  
Head of the Department  
Member of the Biotechnology  
Committee

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**research area (key words):** proteinases, inhibitors of proteolytic enzymes, hydrolytic enzymes and their application  
**application of research:** food and pharmaceutical industry  
**description of commercial product(s) (key words):** pancreatic proteinases, soybean trypsin inhibitor, bovine albumin, urease



■ **Aleksandra Ponitka**  
Ph.D., researcher

Department of Embryology and Tissue Culture  
Institute of Plant Genetics  
Polish Academy of Sciences  
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phone: (061) 823-35-11  
fax: (061) 823-36-71  
e-mail: apon@igr.poznan.pl

**research area (key words):**

anther culture, embryo culture, wide hybridization, *in vitro* plant regeneration

**application of research:**

cereals, production of haploids and hybrid plants, plant regeneration from various explants

■ **Zbigniew Przybecki**  
professor

Department of Plant Genetics Breeding and Biotechnology  
Faculty of Horticulture and Landscape Architecture  
Warsaw Agricultural University  
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phone: (022) 843-90-41 ext. 11284  
fax: (022) 843-09-82  
e-mail: przybecki@alpha.sggw.waw.pl

**research area (key words):**

molecular genetics of plants, genetics engineering, biotechnology, plant sex determination

■ **Wanda Duszkiewicz-Reinhard**  
professor  
Vice Dean

Division of Biotechnology and Food Microbiology  
Department of Biotechnology, Microbiology and Food Evaluation  
Faculty of Food Technology  
Warsaw Agricultural University  
*Katedra Biotechnologii, Mikrobiologii i Oceny Żywności*

*Wydział Technologii Żywności*  
*Szkoła Główna Gospodarstwa Wiejskiego*  
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fax: (022) 847-86-97  
e-mail: reinhard@alpha.sggw.waw.pl

**research area (key words):** food biotechnology, food microbiology, food safety  
**application of research:** food industry  
**service(s) offered (key words):** microbiological analysis, consulting

■ **Arnold Reps**  
professor

Chair of Food Biotechnology  
Faculty of Food Science  
University of Warmia and Mazury in Olsztyn  
*Katedra Biotechnologii Żywności*  
*Wydział Nauki o Żywności*  
*Uniwersytet Warmińsko-Mazurski*  
10-724 Olsztyn  
phone: (089) 523-32-33  
fax: (089) 523-38-38  
e-mail: mada@uwm.edu.pl

**research area (key words):** enzymes for food technology, high pressure in food technology, food microbiology  
**application of research:** food technology, dairy technology

■ **Małgorzata Robak**  
Ph.D., D.Sc., assistant  
professor

Department of Biotechnology and Food  
Microbiology  
Faculty of Food Sciences  
Agriculture University of Wrocław  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
*Wydział Nauk o Żywności*  
*Akademia Rolnicza*  
ul. Norwida 25, 50-375 Wrocław  
phone: (071) 320-51-43  
e-mail: mrob@ozi.ar.wroc.pl



**research area (key words):** *Yarrowia lipolytica*, metabolism of acetate, citrate synthase, yeast genome

**application of research:** citric acid production, bioremediation, identification of yeast by molecular biology methods

■ **Anna Rodziewicz**  
Ph.D., researcher

Department of Biotechnology and Food Microbiology  
Faculty of Food Science  
Agricultural University of Wrocław  
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ul. Norwida 25, 50-375 Wrocław  
phone: (071) 320-51-16  
e-mail: arod@ozi.ar.wroc.pl

**research area (key words):** applied biocatalysis, bacterial proteases, keratinases, lipases,  $\alpha$ -glucanases, bacterial biofilms

**application of research:** enzymes technology, food industry, laundry, environmental protection

**description of commercial product(s) (key words):** crude preparation of proteases and lipases for washing powder, maltogenic amylases for branched oligosaccharides production, crude preparation of keratinases for poultry waste degradation

**service(s) offered (key words):** applied biocatalysis consulting

■ **Stanisław Rosochacki**  
professor  
Head of the Chair

Chair of Sanitary Biology and Biotechnology  
Faculty of Building and Environmental Engineering  
Białystok Technical University  
*Katedra Biologii Sanitarnej i Biotechnologii*  
*Wydział Budownictwa i Inżynierii Środowiska*  
*Politechnika Białostocka*

ul. Wiejska 45A, 15-351 Białystok  
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and  
Department of Molecular Cytogenetics  
Institute of Genetics and Animal Breeding  
Polish Academy of Sciences  
*Zakład Cytogenetyki Molekularnej*  
*Instytut Genetyki i Hodowli Zwierząt*  
*Polska Akademia Nauk*  
Jastrzębiec, 05-552 Wólka Kosowska  
phone: (022) 756-17-11 ext. 370  
fax: (022) 756-16-99

**research area (key words):** proteolysis, polymorphism of genes, cathepsins, calpains, transgenic animals, reporter genes, biosensors, microbiology of sludge, air pollution

**application of research:** molecular biosensors with reporter genes, polymorphism of proteolytic enzymes genes

**description of commercial product(s) (key words):** biosensors

■ **Jan Rybczyński** Department of Plant Biotechnology  
professor Botanical Garden – Center for Biological  
Deputy Director Diversity Conservation  
Head of the Department *Zakład Biotechnologii Roślin*  
Member of the Biotechnology *Ogród Botaniczny – Centrum Zachowania*  
Committee *Różnorodności Biologicznej*  
National Correspondent of ul. Prawdziwka 2, 02-973 Warszawa  
International Association for phone: (022) 648-38-56  
Plant Tissue Culture and fax: (022) 757-66-45  
Biotechnology e-mail: jjryb@ob.neostrada.pl

**research area (key words):** plant biotechnology, somatic embryogenesis, transformation, cryopreservation

**name of culture collection(s) (key words):**

- 1) *in vitro* collection of woody fern gametophytes
- 2) axenic culture collection a cell suspensions of gentiana's



**service(s) offered (key words):** 1) development of cell suspensions from various species of plant  
 2) various microscopic analysis of cultured plant cells  
 3) plant tissue cryopreservation

■ **Wojciech Robert Rypniewski** Center of Biocrystallographic Research  
 associate professor Institute of Bioorganic Chemistry  
 Polish Academy of Science  
*Centrum Badań Biokrytalograficznych*  
*Instytut Chemii Bioorganicznej*  
*Polska Akademia Nauk*  
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 phone: (061) 852-85-03  
 fax: (061) 852-05-32  
 e-mail: wojtekr@ibch.poznan.pl

**research area (key words):** crystallography, protein, nucleic acid,  
 metabolism, enzyme, inhibition, pathogenic fungi  
**application of research:** drug design, catalysis

■ **Jan Sadowski** Department of Biotechnology  
 professor Faculty of Biology  
 Head of the Department Adam Mickiewicz University  
*Katedra Biotechnologii*  
*Wydział Biologii*  
*Uniwersytet im. Adama Mickiewicza*  
 ul. Międzychodzka 5, 60-371 Poznań  
 phone: (061) 829-27-32  
 fax: (061) 829-27-30  
 e-mail: jsad@amu.edu.pl

**research area (key words):** molecular genetics/genomics, ozone stress,  
 drought stress, signal transduction, *Arabidopsis*  
*thaliana*, *Bravica oleracea*  
**application of research:** construction of chromosomal maps and  
 transcriptional profiles

- Marcin Schmidt**  
 Ph.D., assistant professor  
 Department of Biotechnology and Food Microbiology  
 Faculty of Food Technology  
 August Cieszkowski Agricultural University  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
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*Akademia Rolnicza im. Augusta Cieszkowskiego*  
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 phone: (061) 846-60-24  
 fax: (061) 846-60-24  
 e-mail: mschmidt@au.poznan.pl
- research area (key words):** gene expression regulation, HPV, cell transformation, lactic acid bacteria phages, GMO
- application of research:** testing of food compounds in cell culture, GMO testing, classification and identification of microorganisms
- name of culture collection(s) (key words):** HELA, CASKI, SIHA, C33-A, HACAT, HEK 297, *Lactococcus lactis* MG1363, Øc2, Øsk1
- description of culture collection(s):** mammalian cell lines, bacteria, phages
- service(s) offered (key words):** identification of microorganisms, identity testing of microorganisms
- Maciej Sip**  
 Ph.D.  
 Managing Director  
*QUANTUM*  
 ul. Poziomkowa 54  
 62-002 Suchy Las  
 phone/fax. (061) 652-20-40  
 e-mail: maciej.sip@quantum-ms.com  
 www.quantum-ms.com
- research area (key words):** consulting, project management, public affairs, biotechnology, agriculture
- Andrzej Cezary Składanowski**  
 Ph.D., associate professor  
 Head of the Department  
 Department of Molecular Enzymology  
 Intercollegiate Faculty of Biotechnology  
 University of Gdańsk – Medical University  
 of Gdańsk



*Zakład Enzymologii Molekularnej  
Międzyuczelniany Wydział Biotechnologii  
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w Gdańsku*  
ul. Dębinki 1, 80-211 Gdańsk  
phone: (058) 349-14-70  
fax: (058) 349-14-65  
e-mail: [acskla@amg.gda.pl](mailto:acskla@amg.gda.pl)

- research area (key words):** cellular metabolism, functional proteins, gene expression, cancer research, cytotoxicity
- application of research:** new methods in malignant melanoma therapy, risk assessment of chemicals, toxicity and ecotoxicity of chemicals
- description of commercial product(s) (key words):** enzyme inhibition test for risk assessment of chemical compounds, high throughput screening of chemical compounds for toxic and ecotoxic properties
- specific features of products:** part of test battery for risk assessment of chemical compounds
- service(s) offered (key words):** toxicity and ecotoxicity tests of chemical compounds

■ **Anna Skorupska**

professor  
Member of the Biotechnology  
Committee  
Member of the Microbiology  
Committee

Department of General Microbiology  
Faculty of Biology and Earth Sciences  
Maria Curie-Skłodowska University  
*Zakład Mikrobiologii Ogólnej  
Instytut Mikrobiologii i Biotechnologii  
Wydział Biologii i Nauk o Ziemi  
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fax: (081) 537-59-59  
e-mail: [genet@biotop.umcs.lublin.pl](mailto:genet@biotop.umcs.lublin.pl)

- research area (key words):** molecular genetics of microorganisms, rhizobia-legume interactions, genetics of rhizobial surface structures
- application of research:** selection of rhizobial strains highly effective in nitrogen fixation and use then as biofertilizers

- **Grzegorz Skrzypczak**  
professor  
Vice-Rector for Science and  
International Relations
- Chair of Soil and Plant Cultivation  
Faculty of Agronomy  
August Cieszkowski Agricultural University  
*Katedra Uprawy Roli i Roślin*  
*Wydział Rolniczy*  
*Akademia Rolnicza im. Augusta Cieszkowskiego*  
ul. Mazowiecka 45/46, 60-623 Poznań  
phone: (061) 848-74-09  
fax: (061) 848-73-98  
e-mail: gsweed@au.poznan.pl
- research area (key words):** plant protection, herbicides, weeds biology and control
- application of research:** weed control, field experiments, registration trials, GMO experiments
- 
- **Barbara Skucińska**  
professor emeritus
- Chair of Plant Breeding and Seeds Science  
Faculty of Agriculture and Economics  
Agricultural University  
*Katedra Hodowli Roślin i Nasiennictwa*  
*Wydział Rolniczo-Ekonomiczny*  
*Akademia Rolnicza*  
ul. Łobzowska 24, 31-140 Kraków  
phone: (012) 633-36-06  
fax: (012) 633-36-06  
e-mail: rkhrn@ar.krakow.pl
- research area (key words):** plant tissue culture (from 1965):  
micropropagation, variation in tissue culture,  
biosynthesis, mutation and selection *in vitro*,  
haploidization
- application of research:** micropropagation, selection, stimulation,  
mutation and haploidization of several  
horticultural and agricultural crops
- 
- **Lucyna Słomińska**  
professor  
Department Manager
- Institute of Biotechnology and Environmental  
Protection  
Faculty of Civil and Environmental Engineering  
University of Zielona Góra



*Instytut Biotechnologii i Ochrony Środowiska  
Wydział Inżynierii Lądowej i Środowiska  
Uniwersytet Zielonogórski  
ul. Monte Cassino 21b, 65-561 Zielona Góra  
phone: (068) 328-73-23  
fax: (068) 328-73-23  
e-mail: ls@man.poznan.pl*

- research area (key words):** modification of enzymatic depolymerisation of starch (hydrolysis, isomerization, cyclization, transglucosilation, enzymatic improvement of starch hydrolysate filtration, application of enzymatic membrane reactor
- application of research:** production of starch hydrolysates

■ **Ewa Słota**

professor  
Head of the Research Group  
Editor-in-chief "Annals of  
Animal Sciences"

Department of Animal Reproduction  
Biotechnology,  
Immuno- and Cytogenetics  
National Research Institute of Animal Production  
*Dział Biotechnologii Rozrodu, Immuno- i Cytogenetyki  
Zwierząt  
Instytut Zootechniki  
ul. Krakowska 1, 32-083 Balice  
phone: (012) 258-83-26  
fax: (012) 258-81-50  
e-mail: eslota@izoo.krakow.pl*

- research area (key words):** blood groups in animals, animal cytogenetics, DNA polymorphism
- application of research:** animal breeding
- service(s) offered (key words):** parentage control in animals, karyotype analyses in animals, species specific protein detection in feedstuffs

■ **Zdzisław Smorąg**

professor  
Head of the Department  
Member of the Biotechnology  
Committee

Department of Animal Biotechnology, Immuno-  
and Cytogenetics  
National Research Institute of Animal Production  
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phone: (012) 258-83-08  
fax: (012) 285-51-62  
e-mail: zsmorag@izoo.krakow.pl

**research area (key words):** animal reproduction, animal transgenesis and cloning, *in vitro* embryo production, oocyte and embryo cryobiology, semen sexing  
**application of research:** animal breeding, animal biotechnology

■ **Dariusz Sochacki**  
Ph.D., researcher

Institute of Pomology and Floriculture  
*Instytut Sadownictwa i Kwiaciarstwa*  
ul. Pomologiczna 18, 96-100 Skierniewice  
phone: (046) 833-20-41  
fax: (046) 833-20-88  
e-mail: dsochack@insad.pl

**research area (key words):** micropropagation, virus testing, bulbous plants  
**application of research:** production of virus-tested planting material, micropropagation, plant genetic resources

■ **Ewa Solarska**  
associate professor  
Head of the Laboratory

Laboratory of Phytopathology  
Department of Breeding and Production of Special Crops  
Institute of Soil Science and Plant Cultivation  
*Laboratorium Fitopatologii*  
*Zakład Hodowli i Uprawy Roślin Specjalnych*  
*Instytut Uprawy Nawożenia i Gleboznawstwa*  
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phone: (081) 886-34-21  
fax: (081) 886-45-47  
e-mail: esolar@iung.pulawy.pl

**research area (key words):** phytopathology, mycology, virology, detection of plant pathogen (fungus, viruses, viroids, phytoplasmias), plant tissue culture  
**application of research:** plant diseases diagnosis, preparation of healthy plant material



**description of commercial product(s) (key words):** healthy hop cuttings with certification of Institute of Soil Science and Plant Cultivation

**specific features of products:** viruses and viroid free plants

**service(s) offered (key words):** molecular diagnosis of hop and cereals diseases

- **Michał Starzycki**  
Ph.D., D.Sc., associate professor  
Head of the Laboratory
- Laboratory of Breeding Resistance Methods  
Research Division  
Plant Breeding and Acclimatization Institute  
*Pracownia Metod Hodowli Odpornościowej*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
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fax: (061) 823-38-71  
e-mail: [michals@nico.ihar.poznan.pl](mailto:michals@nico.ihar.poznan.pl)
- research area (key words):** resistance to diseases, interspecific crossings
- application of research:** evaluation of oilseed rape strains/lines for the resistance to pathogens, interspecific crossings to obtain new alloplasmic and yellow seed forms of winter oilseed rape
- service(s) offered (key words):** selection of oilseed rape breeding material resistant to pathogens, interspecific crossing, *in vitro* selection plants and pathogen using molecular methods

- **Wojciech Jacek Stec**  
professor  
Head of the Department  
Member of the Polish Academy of Sciences  
former Chairman of the Biotechnology Committee
- Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Chemistry  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
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fax: (042) 681-54-83  
e-mail: [wjstec@bio.cbmm.lodz.pl](mailto:wjstec@bio.cbmm.lodz.pl)

- research area (key words):** nucleosides and nucleotides, oligonucleotides and analogues, RNA tertiary structure modification, gene silencing, antisense/antigene technology, enzyme inhibitors, prodrugs
- application of research:** plasminogen activator inhibitors, tumor necrosis factors and muteins, BACE inhibitors, drug cellular delivery vehicles
- service(s) offered (key words):** stereocontrolled synthesis of P-chiral analogues of oligonucleotides, construction of ribozyme coding plasmids
- additional information:**
1. W. J. Stec, J. Baraniak, R. Kaczmarek, D. Korczyński  
Sposób wytwarzania 5'-O-(amidofosforano)-5'-O-(amidotiofosforano) i 5'-O-(amidotiofosforano)nukleozydów.  
Zgłoszenie w UP RP Nr P-342 130 z 28.08.2000 r.
  2. A. Grajkowski, B. Uznański, W. J. Stec  
Stereokontrolowany sposób wytwarzania tiofosforanowych analogów oligodeoksynukleotydów  
UP RP nr 166079 z 10.04.1995 r.  
Patent USA 5,646,267 z 8.07.1997 r.  
Patent japoński nr 3207915 z 6.07.2001 r.
  3. A. Grajkowski, B. Uznański, W. J. Stec  
Sposób wytwarzania nowych pochodnych nukleozydów  
UP RP nr 166061 z 28.04.1995 r.  
Patent USA nr 5,512,668 z 30.04.1996 r.  
Patent japoński nr 3207915 z 6.07.2001 r.
  4. W. J. Stec, Cz. Radzikowski, H. Kuśmierczyk, W. Szelejewski, G. Gryniewicz, A. Kutner, R. Kinas, K. Misiura  
Środek farmaceutyczny o działaniu przeciwnowotworowym, zastosowanie pochodnych 1,3,2-oksazafosforanu oraz sposób leczenia nowotworów  
UP RP nr 178713 z 10.07.2001 r.
  5. W. J. Stec, L. Woźniak  
Synteza metanofosfonianowych analogów nukleotydów  
UP RP nr 181682 z 5.12.2001 r.



6. W. J. Stec, L. Woźniak  
Sposób wytwarzania modyfikowanych P-chiralnych analogów nukleotydów  
Patent USA 5,856,465 z 5.01.1999 r.  
Patent australijski nr 707093 z 14.10.1999 r.  
UP RP nr 181746 z 13.12.2001 r.

7. W. J. Stec, L. Woźniak  
Nowe pochodne fosforoorganiczne i sposób ich wytwarzania  
Patent USA 5,936,080 z 10.08.1999 r.  
Patent australijski nr 707369 z 21.10.1999 r.  
UP RP nr 184377 z 21.05.2003 r.

8. W. J. Stec, L. Woźniak, A. Chworoś, J. Pyzowski  
Sposób wytwarzania modyfikowanych P-chiralnych analogów nukleotydów  
Patent USA nr 6,407,223 z 18.06.2002 r.  
UP RP nr 184612 z 5.06.2003 r.

■ **Olgierd Stobienia**

Ph.D., assistant professor

Department of Bioenergetics  
Institute of Molecular Biology and Biotechnology  
Faculty of Biology  
Adam Mickiewicz University  
*Zakład Bioenergetyki*  
*Institut Biologii Molekularnej i Biotechnologii*  
*Wydział Biologii*  
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phone: (061) 829-45-32  
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e-mail: ogis@amu.edu.pl

research area (key words):

membrane transport, energy transduction,  
mitochondrial function

application of research:

basic studies

■ **Ryszard Stolarski**

professor

Head of the Department

Department of Biophysics  
Institute of Experimental Physics  
Faculty of Physics  
University of Warsaw

*Zakład Biofizyki*  
*Instytut Fizyki Doświadczalnej*  
*Wydział Fizyki*  
*Uniwersytet Warszawski*  
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phone: (022) 554-07-72  
fax: (022) 554-07-71  
e-mail: stolarsk@biogeo.uw.edu.pl

**research area (key words):** molecular biophysics, spectroscopy

■ **Czesław Strumillo**  
professor

Department of Heat and Mass Transfer  
Faculty of Process and Environment Engineering  
Technical University of Łódź  
*Katedra Procesów Ciepłych i Dyfuzyjnych*  
*Wydział Inżynierii Procesowej i Ochrony Środowiska*  
*Politechnika Łódzka*  
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phone: (042) 631-37-35  
fax: (042) 636-56-63  
e-mail: cstrumil@wipos.p.lodz.pl

**research area (key words):** heat and mass transfer, R&D in drying

■ **Kazimierz Strzałka**  
professor

Dean of the Faculty  
Head of the Department  
Department of Plant Physiology and Biochemistry  
Faculty of Biotechnology  
Jagiellonian University  
*Zakład Fizjologii i Biochemii Roślin*  
*Wydział Biotechnologii*  
*Uniwersytet Jagielloński*  
ul. Gronostajowa 7, 30-387 Kraków  
phone: (012) 664-65-09  
fax: (012) 664-69-02  
e-mail: strzalka@mol.uj.edu.pl

**research area (key words):** photosynthesis, membranes, tissue cultures, greening, electron transport, photosynthetic pigments, abiotic stress factors



**application of research:** plant resistance to heavy metal stress, phytoremediation, biotransformation, adaptation of photosynthetic apparatus to light stress

**name of culture collection(s)**

**(key words):**

tissue cultures of sycamore and tobacco

**service(s) offered (key words):**

determination of photosynthetic pigments (chlorophylls carotenoids) and prenyllipids

■ **Jerzy Strzeżek**

professor

Head of the Department

Department of Animal Biochemistry and Biotechnology

Faculty of Animal Bioengineering

University of Warmia and Mazury in Olsztyn

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*Wydział Bioinżynierii Zwierząt*

*Uniwersytet Warmińsko-Mazurski*

ul. Oczapowskiego 5, 10-728 Olsztyn

phone: (089) 523-33-91

fax: (089) 524-01-38

e-mail: strzezek@uwm.edu.pl

**research area (key words):**

proteomics of male reproductive tract, immunology of animal semen, cryobiochemistry of spermatozoa, technology preservation of male gametes

**application of research:**

animal production

■ **Józef Synowiecki**

professor

Head of the Department

Chemical Faculty

Gdańsk University of Technology

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*Wydział Chemii*

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phone: (058) 347-13-95

fax: (058) 347-26-94

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**research area (key words):**

immobilized enzymes, thermostable enzymes, chitin and chitosan from microbial sources  
isolation of crustacean chitin, functional protein hydrolysates, salmonids pigmentation, technology, utilisation of seal meat and other by-products

- name of culture collection(s)**  
**(key words):** recombinant *E. coli*  
**description of culture collection(s):** recombinant *E. coli* producing thermostable  $\beta$ -galactosidase
- **Stanisław Szala**  
professor  
Chairman of the Department
- Experimental Therapy Group, Molecular Biology Group  
Molecular Biology Department  
Maria Skłodowska-Curie Memorial Institute  
Centre of Oncology – Gliwice Branch  
*Zakład Biologii Molekularnej*  
*Centrum Onkologii – Instytut im. Marii Skłodowskiej-Curie*  
*Oddział Gliwice*  
ul. Wybrzeże Armii Krajowej 15, 44-101 Gliwice  
phone: (032) 278-98-79  
fax: (032) 278-35-12  
e-mail: [sszala@io.gliwice.pl](mailto:sszala@io.gliwice.pl)
- research area (key words):** synthetic anticancer drug carriers, novel anticancer drugs, gene constructs and proteins, experimental tumor therapy
- application of research:** tumor therapy
- **Andrzej Szczepaniak**  
professor
- Laboratory of Biophysics  
Department of Natural Sciences  
Institute of Biochemistry and Molecular Biology  
University of Wrocław  
*Zakład Biofizyki*  
*Instytut Biochemii i Biologii Molekularnej*  
*Wydział Nauk Przyrodniczych*  
*Uniwersytet Wrocławski*  
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fax: (071) 375-62-34  
e-mail: [Andrzej.Szczepaniak@ibmb.uni.wroc.pl](mailto:Andrzej.Szczepaniak@ibmb.uni.wroc.pl)
- research area (key words):** photosynthesis, cytochrome, Rubisco, cytochrome  $b_6f$  complex



■ **Janusz Szczodrak**

professor  
Head of the Department  
Director of the Institute

Department of Industrial Microbiology  
Institute of Microbiology and Biotechnology  
Maria Curie-Skłodowska University  
*Zakład Mikrobiologii Przemysłowej*  
*Instytut Mikrobiologii i Biotechnologii*  
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fax: (081) 537-59-59  
e-mail: [szczzo@biotop.umcs.lublin.pl](mailto:szczzo@biotop.umcs.lublin.pl)

**research area (key words):** citric acid fermentation, fungal cellulases and dextranases, ethanol from cellulose and whey, amylase resistant starch, barley  $\beta$ -glucans, polysaccharides and enzymes involved in human dental caries

**application of research:** food and feed processing, enzymatic hydrolysis of biomass, caries prophylactics

**service(s) offered (key words):** preparation of fungal and bacterial strains overproducing hydrolases, enzymatic removal of plaque biofilm

■ **Bogusław Szewczyk**

professor  
Head of the Department  
Deputy Director of the  
Institute of Biotechnology

Department of Molecular Virology  
Intercollegiate Faculty of Biotechnology  
University of Gdańsk – Medical Univerisy of Gdańsk  
*Zakład Wirusologii Molekularnej*  
*Międzyuczelniany Wydział Biotechnologii*  
*Uniwersytetu Gdańskiego i Akademii Medycznej*  
*w Gdańsku*  
ul. Kładki 24, 80-822 Gdańsk  
phone: (058) 320-20-29  
fax: (058) 301-03-81  
e-mail: [szewczyk@biotech.univ.gda.pl](mailto:szewczyk@biotech.univ.gda.pl)

**research area (key words):** molecular virology, herpesviruses, flaviviruses, hepatitis C virus, baculovirus expression system, influenza monitoring

**application of research:** diagnostic tests based on recombinant antigens, potential vaccines based on recombinant techniques

**service(s) offered (key words):** baculovirus expression, ELISA tests

- **Krzysztof W. Szewczyk**  
 professor  
 Deputy Director, Center of Biotechnology, Warsaw University of Technology  
 Head of the Laboratory  
 Member of the Biotechnology Committee  
 Bioprocess Laboratory  
 Faculty of Chemical and Process Engineering  
 Warsaw University of Technology  
*Laboratorium Bioprocusów*  
*Wydział Inżynierii Chemicznej i Procesowej*  
*Politechnika Warszawska*  
 ul. Waryńskiego 1, 00-645 Warszawa  
 phone: (022) 660-64-13  
 fax: (022) 660-57-34  
 e-mail: szewczyk@ichip.pw.edu.pl
- research area (key words):** bioreactor engineering, enzyme kinetics, bioprocesses modelling  
**application of research:** wastewater treatment, biogas production, enzymatic alcoholysis  
**service(s) offered (key words):** industrial bioprocesses analysis, mathematical modelling of bioprocesses, technical advisory
- **Jan Szopa**  
 professor  
 Head of the Laboratory  
 Laboratory of Genetic Biochemistry  
 Institute of Biochemistry and Molecular Biology  
 University of Wrocław  
*Zakład Biochemii Genetycznej*  
*Instytut Biochemii i Biologii Mlekularnej*  
*Uniwersytet Wrocławski*  
 ul. Przybyszewskiego 63/77, 51-148 Wrocław  
 phone: (071) 375-62-02  
 fax: (071) 325-29-30  
 e-mail: szopa@ibmb.uni.wroc.pl
- research area (key words):** molecular biology, biochemistry, biotechnology  
**application of research:** transgenic plant approach for improvement of commercially valuable crops  
**description of commercial product(s) (key words):** flavonoids enriched potato, Flax producing biodegradable plastic, Flax resistant to fungi, Flax equipped with lipid protection compounds  
**specific features of products:** potato tubers with high antioxidant potential, Flax fibres improved, Flax seeds producing monounsaturated fatty acids and with high anatiioxidant capacity  
**service(s) offered (key words):** plant transformation, transgenic plant selection, carbohydrate analysis



■ **Lucjan Szponar**

Ph.D., M.D.

Head of the Department  
Deputy Director for Food  
Safety

Department of Food Safety and Nutrition  
National Food and Nutrition Institute  
*Zakład Bezpieczeństwa Żywności i Żywienia*  
*Instytut Żywności i Żywienia*  
ul. Powsińska 61/63, 02-903 Warszawa  
phone: (022) 550-96-20  
e-mail: l.szponar@izz.waw.pl

**research area (key words):**

food safety, food law, epidemiology of food  
safety and nutrition

**application of research:**

food law, prevention of foodborne diseases and  
diet related diseases

■ **Krystian Szudyga**

Ph.D.

Head of the Laboratory

Laboratory for Edible Fungi  
Research Institute of Vegetable Crops  
*Pracownia Grzybów Uprawnych*  
*Instytut Warzywnictwa*  
ul. Rybickiego 15/17, 96-100 Skierniewice  
phone: (046) 833-46-91  
fax: (046) 834-80-23  
e-mail: szud@pro.onet.pl

**research area (key words):**

edible mushroom, composting, cultivation

■ **Maria Szwacka**

Ph.D., assistant professor

Department of Plant Genetics, Breeding and  
Biotechnology  
Faculty of Horticulture and Landscape Architecture  
Warsaw Agricultural University  
*Katedra Genetyki, Hodowli i Biotechnologii Roślin*  
*Wydział Ogrodnictwa i Architektury Krajobrazu*  
*Szkoła Główna Gospodarstwa Wiejskiego*  
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phone: (022) 843-09-82  
fax: (022) 843-09-82  
e-mail: szwacka@alpha.sggw.waw.pl

**research area (key words):**

plant molecular biology, plant *in vitro* cultures,  
disease tolerance/resistance plant transformation

- application of research:** cucumber transformation, transgene expression, preexisting defense structures in plants
- name of culture collection(s) (key words):** plant transformation vectors, transgenic cucumber lines
- service offered:** genetic improvement of cucumber
- 
- **Jerzy Trojan**  
 associate professor  
 Head of the Chair
- Chair of Gene Therapy  
 Faculty of Medicine  
 Ludwik Rydygier Medical University  
*Katedra Terapii Genowej*  
*Wydział Lekarski*  
*Akademia Medyczna im. Ludwika Rydygiera*  
 ul. M. Curie-Skłodowskiej 9, 85-094 Bydgoszcz  
 e-mail: kizgenoter@amb.bydgoszcz.pl
- research area (key words):** immuno-gene-therapy  
**application of research:** clinical treatment of solid tumors
- 
- **Marian Truszczyński**  
 professor emeritus  
 scientific advisor  
 Member of the Polish Academy of Sciences  
 Member of the Biotechnology Committee  
 former Vice-President of the Polish Academy of Sciences
- Department of Microbiology  
 National Veterinary Research Institute  
*Zakład Mikrobiologii*  
*Państwowy Instytut Weterynaryjny – Państwowy Instytut Badawczy*  
 ul. Partyzantów 57, 24-100 Puławy  
 phone: (081) 886-30-51  
 fax: (081) 886-25-95  
 e-mail: mtruszcz@piwet.pulawy.pl
- research area (key words):** bacterial diseases of animals, diagnostic tests, vaccines
- 
- **Maria Trzcicka**  
 associate professor
- Department of Industrial Microbiology and Biochemistry  
 Institute of Agricultural and Food Biotechnology  
*Pracownia Biochemii*  
*Zakład Mikrobiologii Technicznej i Biochemii*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*



ul. Rakowiecka 36, 02-532 Warszawa  
 phone: (022) 606-36-41  
 fax: (022) 849-04-26  
 e-mail: trzcinska@ibprs.pl

**research area (key words):** biochemistry, enzymology  
**application of research:** food technology

■ **Barbara Tudek**

associate professor  
 Head of the Laboratory

Head of Institute of Biochemistry and Biophysics  
 Biosafety Commission  
 Head of Technical Committee No 287 for  
 Biotechnology in Polish Committee for  
 Standardization  
 Founder Member of Laboratory of GMO Control  
 for commercial products in IBB PAS  
 Laboratory of Oxidative DNA damage  
 Department of Molecular Biology  
 Institute of Biochemistry and Biophysics  
 Polish Academy of Sciences  
*Laboratorium Oksydacyjnych Uszkodzeń DNA*  
*Laboratorium GMO, Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
*Zakład Biologii Molekularnej*  
*Instytut Biochemii i Biofizyki*  
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 phone: (022) 592-33-34  
 fax: (022) 658-46-36  
 e-mail: tudek@ibb.waw.pl

**research area (key words):** DNA damage and repair, bacterial and mammalian mutagenesis, lipid peroxidation and human cancers, development of GMO detection methods and their validation

**description of commercial product(s) (key words):** laboratory of safety level 2, for GMO identification and quantification in plants, feed, food and microbes

**service(s) offered (key words):** GMO identification in plants, feed, food and microbes, GMO quantification

- additional information:** Technical Committee No 287 for Biotechnology in Polish Committee for Standardization has adopted into Polish standardization all European, EN standards concerning biotechnology that have been edited by European Community till December 2003. From January 2004, the Committee will also be engaged in preparation of new standards, by giving opinion on draft projects and participating in preparation of projects
- **Marianna Turkiewicz** Institute of Technical Biochemistry  
professor Faculty of Biotechnology and Food Sciences  
Vice-Director of the Institute Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Biotechnologii i Nauk o Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone: (042) 631-34-40  
fax: (042) 636-66-18  
e-mail: mtur@p.lodz.pl
- research area (key words):** enzymology, applied biocatalysis, cold-adapted enzymes, antarctic microorganisms
- application of research:** food industry, laundry, cosmetic industry, medicine
- description of commercial product(s) (key words):** antarctic  $\beta$ -galactosidase (immobilised preparation) for efficient hydrolysis of lactose in milk at 15-20°C
- specific features of products:** high catalytic efficiency at 15-20°C and below; high operate stability (at least – 2 month)
- name of culture collection(s) (key words):** antarctic microorganisms collections (110 of psychrophilic and psychrotrophic strains of bacteria, yeasts, moulds)
- service(s) offered (key words):** applied biocatalysis-consulting; enzymatic and biochemical analysis



- Tadeusz Tuszyński**  
 professor  
 Dean of the Faculty  
 Department of Fermentation Technology  
 and Technical Microbiology  
 Food Technology Faculty  
 Agricultural University of Kraków  
*Katedra Technologii Fermentacji i Mikrobiologii Technicznej*  
*Wydział Technologii Żywności*  
*Akademia Rolnicza*  
 ul. 29 Listopada 46, 31-425 Kraków  
 phone: (012) 662-51-46  
 fax: (012) 662-47-50  
 e-mail: rrgutter@ar.krakow.pl
- research area (key words):** effect of metal ions on yeast and alcoholic fermentation, flavour and aroma components in alcoholic beverages, the use of microorganisms in the production of biomass, alcohols
- application of research:** improvement of stability of alcoholic emulsion creams; wine, mead and yeast
- description of commercial product(s) (key words):** spirit drink-vodka-propolis, mead-technology
- trade name(s):** propolis flavoured vodka
- specific features of products:** specific flavour, potential beneficial effects of propolis
- name of culture collection(s) (key words):** the pure-cultures of different strains of baker's, wine, brewer's and distillery yeast
- service(s) offered (key words):** microbiological analysis (e.g. identification and biochemical characteristic of different strains of yeast, bacteria and mould), physical and chemical analysis (e.g. of the products of fermentation industry), sensoric evaluation of drinks, courses and training
- additional information:** Department is able to perform analysis of air, water and food quality and contaminations; antioxidants in raw material, wine and beer; bioethanol
- Aleksandra Twardowska**  
 Ph.D.  
 Patent Attorney  
 "Witek-Twardowska-Śnieżko" Sp.p.  
 Patent Attorneys  
 „Witek-Twardowska-Śnieżko” Sp.p.  
 Rzecznicy Patentowi

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**service offered:** intellectual property rights protection focused on biotechnology

■ **Tomasz Twardowski**  
professor  
Head of the Laboratory

Vice-Chairman of the Biotechnology Committee  
President of Polish Federation of Biotechnology  
Editor-in-Chief "Biotechnologia"  
Institute of Bioorganic Chemistry  
Polish Academy of Sciences  
*Instytut Chemii Bioorganicznej*  
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fax: (061) 852-05-32  
e-mail: [twardows@ibch.poznan.pl](mailto:twardows@ibch.poznan.pl)  
and  
Institute of Technical Biochemistry  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*

**research area (key words):** protein synthesis in plant system (lupin and wheat), regulation of translation – effect of low molecular weight, natural products and antisense DNA, legal and social aspects of biotechnology

**application of research:** consulting: protein biosynthesis in plants, biotechnology intellectual property rights and legal aspects biotechnology

■ **Maria Tynek**  
Ph.D., lecturer

Department of Chemistry, Technology  
and Biotechnology of Foods  
Chemical Faculty  
Gdańsk University of Technology  
*Katedra Chemii, Technologii i Biotechnologii Żywności*  
*Wydział Chemiczny*  
*Politechnika Gdańska*



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phone: (058) 347-14-23  
fax: (058) 347-26-94  
e-mail: tynekm@chem.pg.gda.pl

**research area (key words):** chemistry, technology and analysis of lipids, physical, chemical and biotechnological modification of lipids (chemical and enzymatic transesterification)

**application of research:** modification of lipids by hydrogenation

■ **Bożena Tyrakowska**  
associate professor  
Head of the Chair

Chair of Instrumental Analysis  
Faculty of Commodity Science  
Poznań University of Economics  
*Katedra Analizy Instrumentalnej*  
*Wydział Towaroznawstwa*  
*Akademia Ekonomiczna*  
al. Niepodległości 10, 60-967 Poznań  
phone: (061) 856-93-83  
fax: (061) 854-39-93  
e-mail: bożena.tyrakowska@ae.poznan.pl

**research area (key words):** food quality, food safety, instrumental analysis, natural antioxidants (polyphenols, vitamins) – beneficial and adverse effects, food additives and contaminations, enzymatic detoxication and bioactivation of xenobiotics

■ **Jan Udała**  
professor  
Head of the Chair

Chair of Animal Reproduction  
Faculty of Biotechnology and Animal Science  
Agricultural University of Szczecin  
*Katedra Rozrodu Zwierząt*  
*Wydział Biotechnologii i Hodowli Zwierząt*  
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ul. Judyma 6, 71-466 Szczecin  
phone: (091) 454-15-21  
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e-mail: j.udala@biot.ar.szczecin.pl

**research area (key words):** reproduction, animal spermatozoa, egg conservation, estrous cycle, regulation of the season follicular development

**application of research:** evaluation and storage of mammals semen, regulation of the estrous cycle

**service(s) offered (key words):** sperm, evaluation, cryopreservation estrous cycle, synchronization

**additional information:** evaluation of reproductive usefulness of males in farm animals

■ **Stanisław Ułaszewski**

professor  
Head of the Department  
Member of the Biotechnology  
Committee

Department of Genetics  
Institute of Genetics and Microbiology  
Faculty of Natural Sciences  
University of Wrocław  
*Zakład Genetyki*  
*Instytut Genetyki i Mikrobiologii*  
*Wydział Nauk Przyrodniczych*  
*Uniwersytet Wrocławski*  
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phone: (071) 375-63-89  
fax: (071) 325-21-51  
e-mail: stan@microb.uni.wroc.pl

**research area (key words):** genetics and molecular biology of yeasts, drug resistance, heterologous expression in the yeast *Saccharomyces cerevisiae*, ABC transporters

**name of culture collection(s)  
(key words):** IGiM Collection of Microorganisms

**description of culture  
collection(s):** collection of yeasts strains (wild types and different mutants), *Saccharomyces cerevisiae*, *C. albicans*, *S. pombe*

**service(s) offered (key words):** advanced techniques in genetics and molecular biology (cloning, PCR, constructing of yeast industrial strains)

■ **Andrzej Weryński**  
professor, Director

Laboratories of Artificial Organs and Micro and Macroencapsulation  
Institute of Biocybernetics and Biomedical Engineering  
Department of Biomeasurements and Biocontrol  
Polish Academy of Sciences



*Laboratoria Sztucznych Narządów oraz Mikro-  
i Makroenkapsulacji  
Instytut Biocybernetyki i Inżynierii Biomedycznej  
Zakład Biopomiarów i Bioregulacji  
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ul. Trojdena 4, 02-109 Warszawa  
phone: (022) 658-28-77  
fax: (022) 658-28-72  
e-mail: andwer@ibib.waw.pl*

**research area (key words):**

mathematical modeling of physiological system,  
compartmental models, artificial and hybrid  
organs for metabolic support, theory of  
membrane mass exchangers

**application of research:**

renal replacement therapies, liver support  
systems

- **Grzegorz Węgrzyn**  
professor  
Head of the Department

Laboratory of Molecular Genetics  
Department Molecular Biology  
University of Gdańsk  
*Pracownia Genetyki Molekularnej  
Katedra Biologii Molekularnej  
Wydział Biologii, Geografii i Oceanologii  
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phone: (058) 346-30-14  
fax: (058) 301-00-72  
e-mail: wegrzyn@biotech.univ.gda.pl*

**research area (key words):**

DNA replication, gene expression, biological test  
for detection of mutagens, human genetic diseases

**application of research:**

development and optimization of biological  
assays for detection of mutagenic pollution,  
development of novel treatment of human  
lysosomal storage diseases

- **Bernard Wielgat**  
associate professor  
Head of the Laboratory

Department of Plant Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences

Zakład Biochemii Roślin  
 Instytut Biochemii i Biofizyki  
 Polska Akademia Nauk  
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 phone: (022) 658-47-24  
 fax: (022) 658-46-36  
 e-mail: wielgat@ibb.waw.pl

- research area (key words):** plant molecular biology, plant pathogenesis, transgenic plants, *Phytophthora infestans*
- application of research:** resistance of potato to *Phytophthora infestans* (late blight)
- description of commercial product(s) (key words):** somatic hybrids of potato resistant to *Phytophthora infestans*
- specific features of products:** potato resistant to *Phytophthora infestans* and others pathogens
- name of culture collection(s) (key words):** "Regional-IBB-Strains collection" (over 6000 entries)
- description of culture collection(s):** collection of plasmids, yeast, bacteria mutants and plant tissues
- service(s) offered (key words):** collection open for customers under certain restrictions  
 see: <http://kolekcja.ibb.waw.pl/search/index.html/>  
 e-mail: secretariate@ibb.waw.pl

- **Kazimierz L. Wierzchowski**  
 professor emeritus  
 Group leader  
 Member of the Polish  
 Academy of Sciences  
 Member of the Biotechnology  
 Committee

Department of Biophysics  
 Institute of Biochemistry and Biophysics  
 Polish Academy of Sciences  
 Zakład Biofizyki  
 Instytut Biochemii i Biofizyki  
 Polska Akademia Nauk  
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 phone: (022) 658-47-29  
 fax: (022) 658-46-36  
 e-mail: klw@ibb.waw.pl

- research area (key words):** long range electron transfer in proteins, mechanism of transcription initiation, structure of transcription complexes



■ **Rafał Witek**

Patent Attorney

“Witek-Twardowska-Śnieżko” Sp.p.

Patent Attorneys

„Witek-Twardowska-Śnieżko” Sp.p.

*Rzecznicy Patentowi*

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*Biuro we Wrocławiu*

ul. Rudolfa Weigla 12, 53-114 Wrocław

phone: (071) 373-76-68

fax: (071) 337-11-72 ext. 307

**research area (key words):** intellectual property rights protection focused on biotechnology

■ **Danuta Witkowska**

professor

Department of Biotechnology and Food

Microbiology

Faculty of Food Science

Agricultural University of Wrocław

*Katedra Biotechnologii i Mikrobiologii Żywności*

*Wydział Nauk o Żywności*

*Akademia Rolnicza*

ul. C. K. Norwida 25, 50-375 Wrocław

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e-mail: wit@ozi.ar.wroc.pl

**research area (key words):** microbial enzymes production (cellulases, pectinases, xylanases, lytic enzymes), by-product utilization

**application of research:** enzymes technology, enzymatic hydrolysis of plant biopolymers

**description of commercial product(s) (key words):** crude preparation of yeast protoplast formation, crude preparation of plant biopolymers degradation

**service(s) offered (key words):** consulting in biocatalyse processes

■ **Michał Witt**  
professor  
Head of the Department

Institute of Human Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Człowieka*  
*Polska Akademia Nauk*  
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and

professor  
Vice-Director for Research

International Institute of Molecular and Cell Biology  
*Międzynarodowy Instytut Biologii Molekularnej*  
*i Komórkowej*  
ul. Trojdena 4, 02-109 Warszawa  
phone(022) 668-52-20  
fax (022) 668-52-88

**research area (key words):**  
**application of research:**

human molecular genetics  
molecular diagnostics, genetic counselling

■ **Przemysław Wojtaszek**  
professor

Department of Biochemistry  
Institute of Molecular Biology and Biotechnology  
Adam Mickiewicz University  
*Zakład Biochemii*  
*Instytut Biologii Molekularnej i Biotechnologii*  
*Uniwersytet im. Adama Mickiewicza*  
ul. Fredry 10, 61-701 Poznań  
and

Laboratory of Phytochemistry  
Institute of Bioorganic Chemistry  
Polish Academy of Sciences  
*Pracownia Fitochemii*  
*Instytut Chemii Bioorganicznej*  
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ul. Noskowskiego 12/14, 61-704 Poznań  
phone: (061) 852-85-03  
fax: (061) 852-05-32  
e-mail: przemow@ibch.poznan.pl

**research area (key words):**

plant biology, plant cell biology, plant cell walls,  
(glyco)proteins, reactive oxygen species, phenolic  
compounds, cytoskeleton, plant development



- **Maria Wojtatowicz**  
 professor  
 Head of the Department  
 Department of Biotechnology and Food Microbiology  
 Faculty of Food Science  
 Agricultural University of Wrocław  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
*Wydział Nauk o Żywności*  
*Akademia Rolnicza*  
 ul. C. K. Norwida 25, 50-375 Wrocław  
 phone: (071) 320-51-17  
 e-mail: mwojt@ozi.ar.wroc.pl
- research area (key words):** nonconventional yeasts, physiology, metabolism, taxonomy, biotechnological applications (citric acid, fodder yeasts, starter cultures for dairy and brewery industry)
- application of research:** yeast biotechnology, food industry
- name of culture collection(s) (key words):** yeast culture collection of the Biotechnology and Food Microbiology Department
- description of culture collection(s):** *Yarrowia lipolytica* and other yeasts (550 strains)
- service(s) offered (key words):** microbiological analysis, yeasts identification, consulting in applied microbiology
- **Halina Wysokińska**  
 professor  
 Head of the Department  
 Head of the Chair  
 Chair of Biotechnology the Pharmaceutical Biology and Biotechnology  
 Department of Biology and Pharmaceutical Botany  
 Faculty of Pharmacy  
 Medical University  
*Katedra Biologii i Biotechnologii Farmaceutycznej*  
*Zakład Biologii i Botaniki Farmaceutycznej*  
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 ul. Muszyńskiego 1, 90-151 Łódź  
 phone: (042) 677-91-60  
 fax: (042) 678-83-98  
 e-mail: botanika@pharm.am.lodz.pl

**research area (key words):** medicinal plant biotechnology: cell culture, callus culture, micropropagation, hairy roots, secondary metabolites

**application of research:** micropropagation of medicinal plants, production of secondary metabolites

■ **Wiesław Wzorek**  
professor

Division of Food Biotechnology and Microbiology  
Department of Biotechnology, Microbiology and Food Evaluation  
Faculty of Food Technology  
Warsaw Agricultural University  
*Katedra Biotechnologii, Mikrobiologii i Oceny Żywności*  
*Wydział Technologii Żywności*  
*Szkoła Główna Gospodarstwa Wiejskiego*  
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phone: (022) 843-90-41 ex. 11569  
fax: (022) 847-86-97  
e-mail: wzorek@delta.sggw.waw.pl

**research area (key words):** wine and beer technology

**application of research:** fruit and grape wine technology, beer technology, bioactive beverages

■ **Andrzej Zabza**  
professor emeritus  
former Chairman of the  
Biotechnology Committee

Laboratory of Chemistry of Natural Products  
Institute of Organic Chemistry, Biochemistry  
and Biotechnology  
Faculty of Chemistry  
Wrocław University of Technology  
*Laboratorium Chemii Produktów Naturalnych*  
*Instytut Chemii Organicznej, Biochemii*  
*i Biotechnologii*  
*Wydział Chemiczny*  
*Politechnika Wrocławska*  
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**research area (key words):** natural products as regulators of insects behaviour

**application of research:** and development, plants as a source of new drugs  
bioinsecticides, natural drugs



- **Włodzimierz Zagórski-Ostoja** Department of Protein Biosynthesis  
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- research area (key words):** molecular virology  
**application of research:** patents covering plant resistant to viruses, over expression of proteins of bio-medical interest  
**description of commercial product(s) (key words):** potato resistant to PVY, prolactin, protease inhibitors  
**specific features of products:** potato cultivar passed field test, prolactin and protease inhibitors – under development  
**name of culture collection(s) (key words):** IBB Culture Collection (over 5000 entries)  
**description of culture collection(s):** collection of plasmids, transgenes, yeast and bacteria mutants  
**service(s) offered (key words):** collection open for customers, under certain restrictions  
 (see <http://kolekcja.ibb.waw.pl/search/index.html>)
- **Maciej Zalewski** International Centre for Ecology  
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 and  
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- application of research:** ecohydrology, restoration of river basin and reservoir

- **Zofia Zarębska**  
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**research area (key words):** photobiology of psoralens, phototherapy  
 mechanisms of PUVA (psoralens + UVA),  
 membrane lipids photodamage  
**application of research:** dermatology, immunodisorders  
**service(s) offered (key words):** UVA influence on human body, UVA lamps for  
 irradiation of biochemical solutions

- **Zenon Zduńczyk**  
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**research area (key words):** biological evaluation of food and fodder,  
 gastrointestinal physiology, human nutrition,  
 animal feeding, prebiotic, GMO, RAT  
**application of research:** human nutrition and animal feeding

- **Elżbieta Zenkteler**  
 professor  
 Laboratory of General Botany  
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**research area (key words):** plant morphogenesis, phytopathology, tissue culture

■ **Roman Zieliński**  
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**research area (key words):** plant genomics, molecular evolution, population genetics, stress resistance, molecular markers, genetic mapping, QTL analysis, mutagenesis

**application of research:** genetic resources studies, crop improvement, sustainable agriculture

■ **Alicja Ziemienowicz**  
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**research area (key words):** *Agrobacterium tumefaciens*, transformation of eukaryotic cells, plants for biomass production  
**application of research:** improvement of methods for plant transformation, use of engineered plants for biomass production

■ **Janusz Zimny**  
 professor  
 Head of the Department  
 Member of the Biotechnology Committee  
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 Biotechnology and Cytogenetics Department  
 Plant Breeding and Acclimatization Institute  
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**research area (key words):** plant biotechnology, tissue culture, transformation, biosafety  
**application of research:** agriculture, biosafety programme  
**description of commercial product(s) (key words):** homozygous lines of plants, GMO analysis  
**service(s) offered (key words):** regeneration of doubled haploids of cereals, GMO analysis

■ **Barbara Żarowska**  
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**research area (key words):** biosynthesis of citric acid by *Yarrowia lipolytica*, killer activity of yeast  
**application of research:** yeast biotechnology, food industry  
**service(s) offered (key words):** microbiological analysis