

**Who is who  
in  
Polish  
biotechnology**

**Kto jest kim  
w  
polskiej  
biotechnologii**



Opracowanie:  
Tomasz Twardowski  
Krystyna Ludwiczak

- **Ryszard W. Adamiak**  
 professor,  
 Head of the Laboratory  
 of Structural Chemistry  
 of Nucleic Acids

Institute of Bioorganic Chemistry  
 Polish Academy of Sciences  
*Instytut Chemii Bioorganicznej*  
*Polska Akademia Nauk*  
 ul. Noskowskiego 12/14, 61-704 Poznań  
 phone (061) 52 85 03  
 fax (061) 52 05 32  
 e-mail: adamiakr@ibch.poznan.edu.pl

**research (key words):**

nucleic acids, structural chemistry, stereodynamics,  
 fluorescent probes, RNA-RNA and  
 nucleic acid — protein interactions, <sup>1</sup>H, <sup>19</sup>F and <sup>13</sup>C NMR

- **Tadeusz Adamski**  
 Ph. D., researcher

Institute of Plant Genetics  
 Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 34, 60-479 Poznań  
 phone (061) 23 35 11  
 fax (061) 22 11 22

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

wide hybridization, embryo culture, haploids  
 plant breeding

- **Janina Aleksandrowicz**  
 associate professor,  
 Head of the Laboratory

Department of Serum and Vaccine Research  
 National Institute of Hygiene  
*Zakład Badania Surowic i Szczepionek*  
*Państwowy Zakład Higieny*  
 ul. Chocimska 24, 00-791 Warszawa  
 phone (022) 49 76 12  
 fax (022) 49 70 84

**research (key words):**

control of biopreparations

- **Halina Augustyniak**  
 professor

Institute of Molecular Biology and Biotechnology  
 Adam Mickiewicz University  
*Instytut Biologii Molekularnej i Biotechnologii*  
*Uniwersytet im. Adama Mickiewicza*  
 ul. Międzychodzka 5, 60-371 Poznań  
 phone (061) 61 55 11 ex. 31  
 fax (061) 52 36 15

**research (key words):**

plant vectors, plant transformation, plant organellar genes,  
 lupin mtplasmids, lupin plastid, ndhgen mtplasmids,  
 transformation, ctndh,

**technology**

**and/or know-how available:**

cloning, matings, injection transformation research

**culture collections:**

bacterial strains, vectors

**commercial products:**

plant vectors: tobacco, potato; F1 transformants

- **Andrzej Babuchowski**  
assistant professor

Institute of Food Biotechnology  
University of Agriculture  
*Instytut Biotechnologii Żywności*  
*Akademia Rolniczo-Techniczna*  
pl. Cieszyński 1, 10-957 Olsztyn  
phone (089) 27 86 50  
fax (089) 27 39 08

**research (key words):**

food biotechnology: enzymes, organic acids, microorganism, fermentation

**application of research:**

food technology, environmental protection

**service available:**

technological consulting and product development

- **Tomasz Badzian**  
associate professor,  
Head of the Plant Tissue  
Culture Collection

Research Institute of Vegetable Crops  
*Instytut Warzywnictwa*  
ul. Konstytucji 3-Maja 1-3, 96-100 Skierniewice  
phone (040) 34 34  
fax (040) 88 66 49

**research (key words):**

tissue culture, vegetable crops, plant breeding

**application of research:**

plant breeding

- **Krzysztof Baranowski**  
Ph.D., assistant professor

Department of Beer and Malt Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Piwa i Słodu*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 04 18  
fax (022) 49 04 26

**research (key words):**

hop, beer, fermentation

**application of research:**

brewing industry

- **Krzysztof Barbusiński**  
Ph.D., researcher

Department of Environmental Engineering  
Silesian Technical University  
*Zakład Inżynierii Środowiska*  
*Politechnika Śląska*  
ul. Konarskiego 18, 44-101 Gliwice  
phone (032) 37 28 24  
fax (032) 37 17 94

**research (key words):**

environmental protection, biological wastewater treatment, activated sludge properties, environmental protection, biological wastewater treatment, nutrient removal systems, activated sludge properties, floc structure, floc size distribution, floc specific surface

**application of research:**

wastewater treatment and improvement of efficiency of biological wastewater treatment plant

■ **Jacek Bardowski**  
assistant professor

Department of Microbial Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biochemii Drobnoustrojów*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 24  
fax (022) 658 46 36

**research (key words):**

bacteria, gene expression and regulation, lactic acid bacteria, dairy bacteria

**application of research:**

microbial genetics

■ **Sławomir Bartkowiak**  
associate professor,  
Head of the Laboratory

Institute of Plant Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 30/36, 60-479 Poznań  
phone (061) 23 35 11 ex. 246  
fax (061) 22 11 22

**research (key words):**

plant genetics, plant engineering, plant transformation, plant enzymology, *A. tumefaciens*

**application of research:**

genetics and biochemistry of plants

■ **Włodzimierz Bednarski**  
professor

Institute of Engineering and Food Biotechnology  
University of Agriculture and Technology  
*Instytut Inżynierii i Biotechnologii Żywności*  
*Akademia Rolniczo-Techniczna*  
pl. Cieszyński 1, 10-957 Olsztyn-Kortowo  
phone (089) 27 86 87  
fax (089) 27 39 08

**research (key words):**

food biotechnology, protein, fat, enzymes biosynthesis

**application of research:**

food industry, dairy products

■ **Apoloniusz Berbeć**  
researcher (agronomist)

Institute of Soil Science and Plant Cultivation  
*Instytut Uprawy Nawożenia i Gleboznawstwa*  
Osada Pałacowa, 24-100 Puławy  
phone (0831) 34 21 ex. 216

**research (key words):**

interspecific hybridization (tobacco), tissue culture, somatic hybridization

**application of research:**

breeding for resistance in tobacco

■ **Stanisław Bielecki**  
associate professor

Institute of Technical Biochemistry  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 42  
fax (042) 31 34 02

**research (key words):**

applied biocatalysis, downstream processing, immobilized biocatalysts, glucanases, enzymatic synthesis of novel oligosaccharides

**application of research:**

enzyme technology, biopolymers, food and pharmaceutical industry, environmental protection

**service available:**

biochemical analysis

**technology and/or know-how available:**

production of lytic enzymes

■ **Andrzej Bierzyński**  
associate professor

Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 46 83  
fax (022) 658 46 36  
email: [ajb@ibbrain.ibb.waw.pl](mailto:ajb@ibbrain.ibb.waw.pl)

**research (key words):**

peptide conformation, protein folding

■ **Andrzej Brudziński**  
professor,  
Head of the Department

Department of Beer and Malt Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Piwa i Srodu*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 04 18

**research (key words):**

beer, malt, yeast, fermentation, preservation

**application of research:**

brewing industry

■ **Jolanta Bryjak**  
assistant

Department of Bioprocess Engineering  
Institute of Chemical Engineering  
Technical University of Wrocław  
*Zakład Inżynierii Bioprosesowej*  
*Instytut Inżynierii Chemicznej*  
*Politechnika Wroclawska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 20 26 77

**research (key words):**

immobilization membrane reactors, hydrophobic interaction chromatography

**application of research:**

pharmaceutical and food plants

- **Andrzej Brzozowski**  
Ph.D., researcher
- Department of Crystallography  
University of Łódź  
*Zakład Krystalografii*  
*Uniwersytet Łódzki*  
ul. Pomorska 149/153, 90-236 Łódź  
phone (042) 78 52 80
- research (key words):** proteins crystallography, structure of peptides and drugs, lipases, haemoglobin
- application of research:** pharmaceutical and biotechnology industry
- service available:** consulting in protein crystallography, determination of structure of proteins, peptides and organic compounds by X-ray analysis
- 
- **Jerzy Buchowicz**  
professor,  
Head of the Department
- Department of Plant Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biochemii Roślin*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 38 48  
fax (022) 658 46 36
- research (key words):** DNA, cell differentiation, gene expression
- 
- **Jaromir Budzianowski**  
associate professor
- Department of Pharmaceutical Botany  
Medical Academy  
*Zakład Botaniki Farmaceutycznej*  
*Akademia Medyczna*  
ul. Wieniawskiego 1, 61-712 Poznań  
phone (061) 53 69 38
- research (key words):** phytochemistry, structure elucidation, medicinal plants, chemotaxonomy, pharmacologically active compounds
- application of research:** production of natural drugs
- 
- **Stanisław Bujak**  
professor
- Department of Food Technology and Storage  
Agricultural University  
*Katedra Technologii Przemysłu Rolno-Spożywczego*  
*i Przechowalnictwa*  
*Akademia Rolnicza*  
ul. Akademicka 13, 20-950 Lublin  
phone (081) 37 67 73  
fax (081) 335 49
- research (key words):** food biotechnology (yeast, fungi)
- application of research:** enzymes production, ethanol fermentation, food technology

**Jerzy Chelkowski**

professor,  
Director of the Institute

Institute of Plant Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 34, 60-479 Poznań  
phone (061) 22 11 12  
fax (061) 22 11 22

**research (key words):**

plant pathology and genetics, plant pathogens metabolites,  
*Fusarium*, *Alternaria* and others, cereals resistance to fungal  
diseases, pathogens collection

**application of research:**

agriculture

**Aleksander Chmiel**

professor,  
Head of the Laboratory and  
Vice Director of the Institute

Laboratory of Biosynthesis of Drugs  
Institute of Technology and Chemistry of Drugs  
Medical University of Łódź  
*Samodzielna Pracownia Biosyntezy Środków Leczniczych*  
*Instytut Technologii i Chemii Leków*  
*Akademia Medyczna*  
ul. Muszyńskiego 1, 90-151 Łódź  
phone (042) 78 48 33 ex. 218  
fax (042) 79 06 56

**research (key words):**

microbial technology, plant cell biotechnology, cell  
immobilization, biosynthesis of drugs

**Bożena Chwilkowska**

Ph.D., assistant professor

Institute of Plant Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 34, 60-479 Poznań  
phone (061) 23 35 11

**research (key words):**

potato, cell/tissue culture, clonal selection, transformation of  
cells, somatic cells

**application of research:**

agriculture — new genotypes of potato

**Marta Chrobocińska**

assistant professor

Department of Small Animal Diseases  
National Veterinary Research Institute  
*Zakład Chorób Zwierząt Mięsożernych i Futerkowych*  
*Państwowy Instytut Weterynaryjny*  
al. Partyzantów 57, 24-100 Puławy  
phone (0831) 30 51 ex. 210  
fax (0831) 25 95

**research (key words):**

viral infections of carnivores and rabbits, diagnostic methods  
diagnosis and immunoprophylaxis of virus infections of dogs  
and rabbits

**application of research:**

- **Danuta Ciechańska**  
researcher
- Department of Polymer Biotechnology  
Institute of Chemical Fibres  
*Zakład Biotechnologii Polimerów*  
*Instytut Włókien Chemicznych*  
ul. M. Skłodowskiej-Curie 19/27, 90-570 Łódź  
phone (042) 37 65 10 ex. 185  
fax (042) 37 62 14
- research (key words):** biotransformation of cellulose, biodegradation and biosynthesis of polymer materials
- application of research:** chemical fibres, environmental protection
- 
- **Barbara Wereszczyńska-Cisło**  
assistant professor
- Department of Research Organization and Scientific Technological Information  
Institute of Agro- and Food Biotechnology  
*Zakład Organizacji Badań i Informacji Naukowo-Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71  
fax (022) 49 04 26
- research (key words):** food science and technology, information science, information — retrieval languages
- application of research:** information retrieval system for food research and technology, publishing
- service available:** SDI, retrospective searching, food annotated bibliographies
- 
- **Danuta Czajkowska**  
associate professor
- Department of Technical Microbiology  
Institute of Agro- and Food Biotechnology  
*Zakład Mikrobiologii Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71, 49 02 41  
fax (022) 49 04 26
- research (key words):** fungi, biomass and enzymes biosynthesis, by-product utilization, heavy metals biosorption, microbial diagnostic
- application of research:** industrial microbiology, food microbiology



- **Andrzej Czaplicki**  
assistant professor
- Department of Tissue Culture  
Plant Breeding and Acclimatization Institute  
*Zakład Kultur Tkankowych*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
Radzików, 05-870 Błonie  
phone (022) 55 26 11, 55 36 11  
fax (022) 55 47 14
- research (key words):** wheat, triticum, androgenesis  
**application of research:** plant breeding and genetics
- **Ludwik Czerwiecki**  
associate profesor
- Department of Food Analysis  
Institute of Agro- and Food Biotechnology  
*Zakład Analizy Żywności*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 471  
fax (022) 49 04 26
- research (key words):** mycotoxins, HPLC, food additives  
**application of research:** mycotoxins, food additives and contaminants, environment protection
- **Jerzy Czuba**  
professor,  
Deputy Director for  
Scientific Matters
- Institute of Agro- and Food Biotechnology  
*Instytut Biotechnologii*  
*Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 50 39  
fax (022) 49 04 26
- research (key words):** organic acids, vinegar, *Acetobacter*  
**application of research:** food industry  
**service available:** consulting
- **Jerzy Długoński**  
associate professor,  
Head of the Department
- Department of Industrial Microbiology  
University of Łódź  
*Instytut Mikrobiologii Przemysłowej*  
*Uniwersytet Łódzki*  
ul. Banacha 12/16, 90-237 Łódź  
phone (042) 35 44 65, 35 45 00  
fax (042) 78-49-32
- research (key words):** steroid biotransformation, xenobiotic degradation, cell immobilization  
**application of research:** physiology of industrial microorganisms, pharmaceutical industrial microbiology

- **Teresa Doroszevska**  
Ph.D.  
Institute of Soil Science and Plant Cultivation  
*Instytut Uprawy, Nawożenia i Gleboznawstwa*  
Osada Pałacowa, 24-100 Puławy  
phone (0831) 34 21 ex. 216  
fax (0831) 45 47
- research (key words):** tobacco, buckwheat, interspecific hybridization, tissue and cell culture, fusion protoplast, cytogenetics
- application of research:** breeding for resistance and quality
- 
- **Piotr Dullin**  
Ph.D., researcher  
Department of Biochemistry and Biotechnology  
Agricultural University  
*Instytut Biochemii i Biotechnologii*  
*Akademia Rolnicza*  
ul. Wołyńska 35, 60-637 Poznań  
phone (061) 22 45 81 ex. 186
- research (key words):** regulation of transcription in higher plants, transcription factors
- application of research:** agriculture
- 
- **Lidia Paś-Dzięgielewska**  
Ph.D., Head of the Laboratory  
Department of Biochemistry  
Institute of Biotechnology and Antibiotics  
*Zakład Biochemii*  
*Instytut Biotechnologii i Antybiotyków*  
ul. Starościńska 5, 02-516 Warszawa  
phone (022) 49 60 51 ex. 255  
fax (022) 49 42 07
- research (key words):** immobilization, enzymes purification, biosynthesis of antibiotics
- application of research:** technology of antibiotics and enzymes production
- culture collection available:** collection of streptomycenes (liophilised), 600 strains
- 
- **Halina Ekiert**  
Ph.D., associate professor  
Chair and Department of Pharmaceutical Botany  
Collegium Medicum, Jagiellonian University  
*Katedra i Zakład Botaniki Farmaceutycznej*  
*Uniwersytet Jagielloński, Collegium Medicum*  
ul. Medyczna 9, 30-688 Kraków  
phone (012) 58 40 21, 58 35 77  
fax (012) 58 40 21, 58 35 77 ex. 555
- research (key words):** plant tissue cultures, biosynthesis of biologically active metabolites
- application of research:** pharmacy

- **Jan Fiedurek**  
associate professor  
Department of Industrial Microbiology  
Maria Curie-Skłodowska University  
*Zakład Mikrobiologii Przemysłowej*  
*Uniwersytet Marii Curie-Skłodowskiej*  
ul. Akademicka 19, 20-033 Lublin  
phone (081) 37 59 06  
fax (081) 37 51 02
- research (key words):** industrial microbiology, fungal pectinases, glucoamylase, glucose oxidase
- application of research:** food and feed processing
- 
- **Janina Fiema**  
assistant professor  
Department of Plant Physiology  
Polish Academy of Sciences  
*Zakład Fizjologii Roślin*  
*Polska Akademia Nauk*  
ul. Sławkowska 17, 31-016 Kraków  
phone (012) 22 79 44  
fax (012) 21 79 01
- research (key words):** polysaccharides, chitin, glucans, *Aspergillus*
- 
- **Magdalena Fikus**  
professor,  
Head of the Laboratory  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 44 99 ex. 2352  
fax (022) 658 46 36 and 391216 23  
e-mail: magdaf@ibbrain.ibb.waw.pl
- research (key words):** cloning of eucaryotic genes, *S. cerevisiae* expression vectors, electromodification of the cells
- 
- **Janusz Fiołka**  
researcher  
Institute of Inventiveness and Protection of Intellectual Property  
Jagiellonian University  
*Instytut Wynalazczości i Ochrony Własności Intelektualnej*  
*Uniwersytet Jagielloński*  
ul. Marszałka J. Piłsudskiego 13, 31-110 Kraków  
phone (012) 22 04 82  
fax (012) 22 63 06
- research (key words):** legal problems of biotechnology protection, patents and trade marks

■ **Mirosława Furmanowa**  
 professor,  
 Head of the Department

Department of Biology and Pharmaceutical Botany  
 Faculty of Pharmacy  
 Warsaw Medical Academy  
*Katedra i Zakład Biologii i Botaniki Farmaceutycznej*  
*Akademia Medyczna*  
 ul. Banacha 1, 02-097 Warszawa  
 phone (022) 23 59 84

**research (key words):**

micropropagation, secondary metabolites, hairy roots culture, plant tissue culture, suspension culture, callus

**application of research:**

medicinal plant, drug production of natural origin

■ **Edward Galas**  
 professor,  
 Director of the Institute

Institute of Technical Biochemistry  
 Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
 ul. Stefanowskiego 4/10, 90-924 Łódź  
 phone (042) 36 66 18

**research (key words):**

biocatalysis, biosynthesis of enzyme, environmental biotechnology, biocatalysis in nonconventional media, downstream processing, immobilized biocatalysts food, pharmaceutical and chemical industry

**application of research:  
 technology and/or know-how  
 available:**

computerised spectrophotometry, fermentors (2-120 l), HPLC, FPLC

**commercial products:**

production of subtilisin, thermostable bacterial  $\alpha$ -amylase, amylases, lipases, pullulanase, keratinase, serine, proteinase,  $\alpha$ -galactosidase, lytic enzymes

■ **Andrzej Gamian**  
 Ph.D., researcher

Institute of Immunology and Experimental Therapy  
 Polish Academy of Sciences  
*Instytut Immunologii i Terapii Doświadczalnej*  
*Polska Akademia Nauk*  
 ul. Czerska 12, 53-114 Wrocław  
 phone (071) 73 22 74 or 73 23 16 ex. 217  
 fax (071) 67 91 11

**research (key words):**

immunochemistry, vaccines, carbohydrates, glycolipids, polysaccharides, glycoconjugates diagnostic kits, antibacterial vaccines cultures collections, immunological methods,

**application of research:**

**service available:**

**technology and/or know-how  
 available:**

analysis of glycoconjugates

**commercial products:**

polysaccharide conjugate vaccine, anti-meningitis

**culture collections available:**

1) bacteriophages,  
 2) bacteria (Polish Collection of Microorganism)

■ **Jadwiga Gołąbczak**  
researcher

Faculty of Food Chemistry and Biotechnology  
Institute of Technical Biochemistry  
Technical University of Łódź  
*Katedra Chemii i Biotechnologii Żywności*  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 32, 36 77 04

**research (key words):**

lysine, glutamic acid, microbial synthesis of amino acids,  
control of fermentation process

**application of research:**

food industry

■ **Tadeusz Gołębiowski**  
professor

Department of Beer and Malt Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Piwa i Stodu*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 305  
fax (022) 49 04 26

**research (key words):**

fermentation and biosynthesis technology, brewing industry,  
organization of research

■ **Czesława Górską**  
Ph.D., Dr.Sci.,  
Head of the Laboratory

BIOWET, Serum and Vaccine Laboratory  
*Laboratorium Surowic i Szczepionek*  
24-100 Puławy-Michałowka  
phone (0831) 30 91  
fax (0831) 33 53

**research (key words):**

viruses replication, tissue culture, attenuation, lyophilisation  
serial production of veterinary vaccines

**application of research:**

**technology and/or know-how  
available:**

technology of antisera, vaccines and drugs

**commercial product(s):**

vaccine, distemper, dog hepatitis, parvovirus

**trade names:**

Canivac F, Canivac FH, Canivac P, Canivac FHP,  
Canisanin F, Canisanin FH

**range of application:**

immunoprophylaxis of dogs and fur animals

- **Joanna Surmacz-Górska**  
Ph.D., researcher

Department of Environmental Biotechnology  
Faculty of Environmental and Energy Engineering  
Silesian Technical University  
*Zakład Biotechnologii Środowiskowej*  
*Wydział Inżynierii Środowiska i Energetyki*  
*Uniwersytet Śląski*  
ul. Konarskiego 18, 44-101 Gliwice  
phone (0-32) 37 29 49  
fax (0-32) 37 17 94

**research (key words):**

**application of research:**

environmental protection wastewater treatment  
environmental biotechnology, wastewater treatment,  
environmental protection, urban and industrial wastewater  
treatment, waste management

- **Jerzy Górski**  
professor,  
Head of the Department

Department of Small Animal Diseases  
National Veterinary Research Institute  
*Zakład Chorób Zwierząt Mięsożernych i Futerkowych*  
*Państwowy Instytut Weterynaryjny*  
ul. Partyzantów 57, 24-100 Puławy  
phone (0831) 30 51  
fax (0831) 29 95

**research (key words):**

**application of research:**

**service available:**

**technology and/or know-how  
available:**

**commercial products:**

virology, immunology, technology of biopreparates and drugs  
immunoprophylaxis of rabbits and fur-bearing animals  
control of vaccines and diagnosis of viral diseases  
(parvovirus, distemper, myxomatosis, viral haemorrhagic  
disease of rabbits)

vaccine against myxomatosis, viral haemorrhagic disease,  
parvoviral enteritis of dogs, production of Myxovac M,  
Cunivac, Canivac P  
Myxovac M, Cunivac, Canivac P

- **Włodzimierz Grajek**  
professor,  
Director of the Institute

Department of Biotechnology and Food Microbiology  
Agricultural University  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
*Akademia Rolnicza*  
ul. Mazowiecka 48, 60-623 Poznań  
phone (061) 22 45 81  
fax (061) 48 71 46

**research (key words):**

**application of research:**

**service available:**

industrial microbiology, cell cultures, microbial biosynthesis  
process, lactic acid bacteria, propionic acid bacteria  
food industry  
microbiological analysis, technology design, consulting

**Nikodem Grankowski**  
professor,  
Director of the Institute

Department of Molecular Biology  
Institute of Microbiology  
M. Curie-Skłodowska University  
*Zakład Biologii Molekularnej*  
*Instytut Mikrobiologii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
ul. Akademicka 19, 20-033 Lublin  
phone (081) 37 50 48  
fax (081) 33 669

**research (key words):**  
**application of research:**  
**service available:**

enzymology, protein phosphorylation, protein kinases  
enzymology  
preparation of protein kinases, antibodies against protein  
kinases

**Jan Grzybek**  
professor,  
Head of the Department

Department of Pharmaceutical Botany  
Pharmaceutical Faculty, Collegium Medicum  
Jagiellonian University  
*Katedra i Zakład Botaniki Farmaceutycznej*  
*Wydział Farmaceutyczny*  
*Uniwersytet Jagielloński*  
ul. Medyczna 9, 30-688 Kraków  
phone (012) 58 35 77, 58 40 21 ex. 202, 203

**research (key words):**  
**application of research:**  
**culture collections available:**

higher plants, tissue culture, higher fungi, mycelial culture,  
secondary metabolites, polysaccharides, biological activity  
pharmaceutical industry, therapy  
tissue cultures (10 species), mycelial cultures (13 species)

**Roman A. Grzybowski**  
professor,  
Director of the Institute

Institute of Agro- and Food Biotechnology  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 02 24  
fax (022) 49 04 26

**research (key words):**

food microbiology, enzymes, biotechnology

**Piotr Guga**  
research assistant

Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
ul. Sienkiewicza 112, 90-363 Łódź  
phone (042) 81 89 52  
fax (042) 84 71 26

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

protein sequencing, amino acids analysis, stereochemistry of  
DNA analogs, DNA cloning  
structure of protein, DNA/RNA modification

- **Agata Witkowska-Gwiazdowska**  
assistant professor

Department of Technical Microbiology  
Institute of Agro- and Food Biotechnology  
*Zakład Mikrobiologii Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71, 49 02 41  
fax (022) 49 04 26

**research (key words):**

fungi, enzymes biosynthesis, improvement of strains, storage of strains, microbial diagnostics

**application of research:**

industrial microbiology, food microbiology

- **Danuta Hornecka**  
Ph.D., assistant professor

Department of Technical Microbiology  
Institute of Agro- and Food Biotechnology  
*Zakład Mikrobiologii Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 280  
fax (022) 49 04 26

**research (key words):**

strain improvement and preservation, biosynthesis, solid state fermentation, microscopic fungi, yeast

- **Waleria Hryniewicz**  
professor,  
Associate Director

Sera and Vaccines Central Research Laboratory  
*Centralne Laboratorium Surowic i Szczepionek*  
ul. Chełmska 30/34, 00-725 Warszawa  
phone (022) 41 33 67, 41 29 49  
fax (022) 41 29 49

**research (key words):**

bacteriology, epidemiology, resistance mechanisms, bacterial virulence factors, antimicrobial agents, bacterial susceptibility, quality control

**application of research:**

antimicrobial agents, inhibitory concentration determination, molecular epidemiology of resistance

**service available:**

diagnostic of bacterial infections, determination of susceptibility to antimicrobial agents and mechanisms of resistance.

**technology and/or know-how available:**

diagnostic kits in microbiology

**culture collection available:**

bacterial strains



■ **Maria Danuta Hulanicka**

professor,  
Head of the Department

Department of Microbial Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biochemii Drobnoustrojów*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 45 05

**research (key words):**

molecular biology, regulation of gene expression, plant viruses

■ **Jan Iciek**

professor,  
Head of the Department,  
Director of the Institute

Institute of Chemical Technology of Food  
Technical University of Łódź  
*Instytut Chemicznej Technologii Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 36 74 88  
fax (042) 31 34 02  
telex 88 42 20, 88 61 36

**research (key words):**

thermal destruction of microorganism, heat transfer, drying

**application of research:**

thermal processing of food, thermal sterilization, heat management of sugar plants

**service available:**

modernization of the existing and development of new technologies for sugar industry and food storage

**technology and/or know-how available:**

thermal processing of foodstuffs, continuous thermal sterilization

■ **Zdzisław Ilczuk**

professor,  
Head of the Department

Department of Industrial Microbiology  
Institute of Microbiology  
M. Curie-Skłodowska University  
*Zakład Mikrobiologii Przemysłowej*  
*Instytut Mikrobiologii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
pl. M. Curie-Skłodowskiej 5, 20-031 Lublin  
phone (081) 37 59 46  
fax (081) 37 51 02

**research (key words):**

citric acid fermentation, enzyme biosynthesis, fungal pectinases, glucoamylase, glucose oxidase

**application of research:**

industrial microbiology

- **Teresa Jakubowicz**  
associate professor
- Department of Molecular Biology  
Institute of Microbiology  
M. Curie-Skłodowska University  
*Zakład Biologii Molekularnej*  
*Instytut Mikrobiologii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
ul. Akademicka 19, 20-033 Lublin  
phone (081) 37 50 48  
fax (081) 33 669
- research (key words):** protein kinases (yeast)  
**application of research:** enzymology
- **Andrzej Jakubowski**  
Ph.D., lecturer
- Faculty of Food Chemistry and Biotechnology  
Institute of Technical Biochemistry  
Technical University of Łódź,  
*Wydział Chemii Żywności i Biotechnologii*  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 39, 36 77 04
- research (key words):** bacterial  $\alpha$ -amylases, microbial enzymes biosynthesis  
**application of research:** food industry, textile industry  
**commercial product:**  $\alpha$ -amylase "AMYLOGAL"  
**service available:** consulting in enzymes production
- **Kazimierz Jarosz**  
professor
- Department of Spirit and Yeast Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 561  
fax (022) 49 04 26
- research (key words):** ethanol fermentation, organic acids, citric acid, lactic acid
- **Andrzej B. Jarzębski**  
professor
- Institute of Chemical Engineering  
Polish Academy of Sciences  
*Instytut Inżynierii Chemicznej*  
*Polska Akademia Nauk*  
ul. Bałtycka 5, 44-100 Gliwice  
phone (032) 31 08 11  
fax (032) 31 03 18
- research (key words):** immobilization, physiological analysis of complex  
fermentation processes  
**application of research:** bioprocess engineering, separation modeling, bioseparation,  
immobilization of enzymes

■ **Aurelia Ślusarkiewicz-Jarzina**

Ph.D., researcher

Institute of Plant Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 34, 60-479 Poznań  
phone (061) 23 35 11  
fax (061) 22 11 22

**research (key words):**

*in vitro* fertilization, embryo culture, wide hybridization, anther culture, experimental plant embryology, cereals, grasses,

**application of research:**

production of hybrid plants and haploids

■ **Marek Jerzy**

professor,  
Head of the Department

Department of Ornamental Plants  
University of Technology and Agriculture  
*Zakład Roślin Ozdobnych*  
*Akademia Rolniczo-Techniczna*  
ul. Bernardyńska 6, 85-029 Bydgoszcz  
phone (052) 39 10 03  
fax (052) 366 01

**research (key words):**

*in vitro* mutagenesis, adventitious bud techniques, radiosensitivity of plants

**application of research:**

mutation breeding

■ **Renata Jędrzejczak**

Ph.D., assistant professor,  
Head of the Laboratory

Department of Food Analysis  
Institute of Agro- and Food Biotechnology  
*Zakład Analizy Żywności*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 476  
fax (022) 49 04 26

**research (key words):**

trace metals in food

**application research:**

food industry, toxicology

■ **Jacek Tomasz Jura**

Ph.D., researcher

National Research Institute of Animal Production  
*Instytut Zootechniki*  
32-083 Balice k. Krakowa  
phone (012) 11 32 11 ex. 457

**research (key words):**

gene transfer, zygotes, microinjection, *in vitro* culture

**application of research:**

experimental embryology, farm animals breeding

- **Paweł Kafarski**  
associate professor

Department of Bioorganic Chemistry  
Institute of Organic Chemistry, Biochemistry and  
Biotechnology  
Technical University of Wrocław  
*Zakład Chemii Bioorganicznej*  
*Instytut Chemii Organicznej, Biochemii i Biotechnologii*  
*Politechnika Wroclawska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 20 34 58

**research (key words):**

drug and herbicides design, liquid membranes, peptide synthesis

- **Stanisław Kamiński**  
researcher

Department of Animal Biochemistry  
University of Agriculture and Technology  
*Zakład Biochemii Zwierząt*  
*Akademia Rolniczo-Techniczna*  
ul. Oczapowskiego 5, 10-718 Olsztyn  
phone (089) 23 36 26  
fax (089) 27 39 08

**research (key words):**

bovine milk protein genes

**application of research:**

selection of favourable genes for breeding purposes

- **Krzysztof Kasprzak**  
associate professor,  
expert of the Ministry of  
Environment Protection,  
Natural Resources and Forestry

Polish Association of Sanitary Engineers and Technicians,  
Poznań Branch  
*Polskie Towarzystwo Inżynierów i Techników Sanitarnych*  
ul. Wieniawskiego 5/8, 61-712 Poznań

**research (key words):**

utilization of organic waste, compost production, earthworm  
(*Annelida; Lumbricidae*) bio-technology methods for  
production of vermicompost

- **Lucyna Kątska**  
assistant professor

Department of Animal Reproduction  
National Research Institute of Animal Production  
*Zakład Rozrodu Zwierząt*  
*Instytut Zootechniki*  
32-083 Balice k. Krakowa  
phone (012) 11 32 11 ex. 370, 308  
fax (012) 11 02 94

**research (key words):**

reproduction of farm animals, cryopreservation of oocytes  
and embryos, *in vitro* maturation of oocytes, *in vitro*  
fertilization of oocytes, embryo cloning, transgenic animals,  
manipulation of mammalian gametes and embryos

**application of research:**

farm animals breeding

■ **Wanda Kisiel**  
 associate professor,  
 Head of the Department

Department of Phytochemistry  
 Institute of Pharmacology  
 Polish Academy of Sciences  
*Zakład Fitochemii*  
*Instytut Farmakologii*  
*Polska Akademia Nauk*  
 ul. Smętna 12, 31-343 Kraków  
 phone (012) 37 40 22  
 fax (012) 37 45 00

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

plant tissue culture, secondary metabolites  
 callus and cell suspension cultures, *Agrobacterium* mediated  
 transformations, elucidation

■ **Kazimierz Kleczkowski**  
 professor

Department of Plant Biochemistry  
 Institute of Biochemistry and Biophysics  
 Polish Academy of Sciences  
*Zakład Biochemii Roślin*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
 ul. Pawińskiego 5a, 02-106 Warszawa  
 phone (022) 658 44 99 ex. 1200  
 fax (022) 658 46 36

**research (key words):**  
**application of research:**  
**technology and/or know-how**  
**available:**  
**culture collection available:**

plant biochemistry, cell and tissue culture, transformation of  
 plants, plant pathogens  
 potato breeding  
 cell and tissue culture, *A. tumefaciens* transformations,  
 micropropagation (laboratory scale)  
 potato tissue culture

■ **Bożena Natalia Kolarz**  
 professor

Department of Polymer Physicochemistry  
 Institute of Organic and Polymer Technology  
 Technical University of Wrocław  
*Zakład Fizykochemii Polimerów*  
*Instytut Technologii Organicznej i Tworzyw Sztucznych*  
*Politechnika Wrocławska*  
 ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
 phone (071) 20 38 26  
 fax (071) 20 36 78  
 e-mail: kolarzb@fots.ch.pwr.wroc.pl

**research (key words):**  
**application of research:**  
**technology and/or know-how**  
**available:**  
**commercial product:**

reactive polymers, carriers, immobilization of biologically  
 active substances  
 immobilization of organic substances  
 synthesis of carriers "vinylaff"  
 "vinylaff" — carrier for immobilization

- **Andrzej Kołtuniewicz**  
assistant professor

Department of Chemical Engineering  
Technical University of Wrocław  
*Wydział Inżynierii Chemicznej*  
*Politechnika Wroclawska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 20 36 49

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

membrane, mass transport, fractionation  
wastewater treatment

- **Antonina Komorowska**  
Ph.D., assistant professor

Department of Spirit and Yeast Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 219  
fax (022) 49 04 26

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

food flavor, yeast derived food flavor  
food improvement, improvement and stabilization of products  
of fermentation

- **Alina Krystynowicz**  
researcher

Faculty of Food Chemistry and Biotechnology  
Institute of Technical Biochemistry  
Technical University of Łódź  
*Wydział Chemii Żywności i Biotechnologii*  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 41, 36 77 04

**research (key words):**  
**application of research:**  
**commercial product:**  
**service available:**

amylase, lipase, enzymes microbial synthesis  
food industry, textile industry  
bacterial  $\alpha$ -amylase "AMYLOGAL"  
consulting in enzymes technology

- **Maciej Kujawski**  
professor,  
Head of the Department

Department of Food Biotechnology  
University of Agriculture  
*Zakład Biotechnologii Żywności*  
*Akademia Rolnicza*  
ul. 29 Listopada 46, 31-425 Kraków  
phone (012) 11 91 44 ex. 568, 567  
fax (012) 33 62 45

**research (key words):**  
**application of research:**  
**know-how available:**

glucoamylase, pullulanase, acid phosphatase  
enzymes in food processing  
amylases in starch industry

- **Irena Kulik-Kuziemska**  
 professor  
 Environmental Engineering Faculty  
 Technical University of Gdańsk  
*Wydział Inżynierii Środowiska*  
*Politechnika Gdańska*  
 ul. G. Narutowicza 11/12, 80-952 Gdańsk  
 phone (058) 47 15 09  
 fax (058) 47 24 13
- research (key words):** technology of wastewater, biological removal of phosphates, nitrates, ammonium  
**application of research:** technology of wastewater, removal of nutrients from wastewater
- **Ewa Kwapisz**  
 researcher  
 Institute of Technical Biochemistry  
 Faculty of Food Chemistry and Biotechnology  
 Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Chemii Żywności i Biotechnologii*  
*Politechnika Łódzka*  
 ul. Stefanowskiego 4/10, 90-924 Łódź  
 phone (042) 31 34 39, 36 77 04
- research (key words):** enzymes microbial synthesis, citric acid fermentation, industrial strains improvement  
**application of research:** food industry  
**service available:** production of enzymes and organic acids
- **Dorota Laskowska**  
 assistant professor  
 Institute of Soil Science and Plant Cultivation  
*Instytut Uprawy, Nawożenia i Gleboznawstwa*  
 ul. Czartoryskich 8, 24-100 Puławy  
 phone (0831) 34 21 ex. 218  
 telex 06 42 410
- research (key words):** tobacco, haploids, anther culture, protoplast fusion
- **Wojciech Lassociński**  
 Ph.D., researcher  
 Department of Biochemistry and Biotechnology  
 Agricultural University  
*Katedra Biochemii i Biotechnologii*  
*Akademia Rolnicza*  
 ul. Wołyńska 35, 60-637 Poznań  
 phone (061) 22 45 81 ex. 186
- research (key words):** tissue cultures, transgenic plants, electroporation  
**application of research:** agriculture and forestry

- **Dorota Lechniak**  
Ph.D., assistant professor  
Department of Genetics and Animal Breeding  
Agricultural University  
*Katedra Genetyki i Podstaw Hodowli Zwierząt  
Akademia Rolnicza*  
ul. Wołyńska 33, 60-637 Poznań  
phone (061) 48 72 50  
fax (061) 48 71 46
- research (key words):** IVM/IVF, bovine and porcine embryos, gene expression, PCR sexing  
**application of research:** animal genetics
- **Stanisław Ledakowicz**  
professor,  
Head of the Department  
Department of Bioprocess Engineering  
Faculty of Process and Environmental Engineering  
Technical University of Łódź  
*Zakład Inżynierii Bioprocessowej  
Wydział Inżynierii Procesowej i Ochrony Środowiska  
Politechnika Łódzka*  
ul. Wólczańska 175, 90-924 Łódź  
phone (042) 31 37 15  
fax (042) 36 56 63
- research (key words):** bioprocess and bioreactor engineering, environmental biotechnology, solid waste biotreatment, wastewater biodegradation  
**application of research:** construction of bioreactors  
**service available:** designing of bioprocesses and bioreactors  
**know-how available:** citric acid fermentation in air-lift, solid-waste fermenters
- **Andrzej B. Legocki**  
professor,  
Director of the Institute  
member of the Polish  
Academy of Sciences  
Institute of Bioorganic Chemistry  
Polish Academy of Sciences  
*Instytut Chemii Bioorganicznej  
Polska Akademia Nauk*  
ul. Noskowskiego 12/14, 61-704 Poznań  
phone (061) 52 85 03(04), 52 89 19  
fax (061) 52 05 32  
e-mail: legocki@ibch.poznan.edu.pl
- research (key words):** plant molecular biology  
**application of research:** plant transformation  
**technology and/or know-how available:** plant transformation and genetic engineering, DNA recombinant technology  
**culture collections available:** DNA libraries of lupin, plant transformation vectors



- **Przemysław Lehmann**  
Ph.D., assistant professor

Department of Plant Genetic Engineering  
Institute of Plant Genetics  
Polish Academy of Sciences  
*Pracownia Inżynierii Genetycznej Roślin*  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 34, 60-479 Poznań  
phone (061) 23 35 11  
fax (061) 22 11 22

**research (key words):**

plant molecular biology, transgenic plants, virus resistance, coat protein-mediated protection, engineering virus resistance, *Agrobacterium*, recombinant DNA technology  
agriculture

**application of research:**

- **Barbara Lejczak**  
professor

Department of Biotechnology  
Institute of Organic Chemistry, Biochemistry and  
Biotechnology  
Technical University of Wrocław  
*Zakład Biotechnologii*  
*Instytut Chemii Organicznej, Biochemii i Biotechnologii*  
*Politechnika Wrocławska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 20 34 58

**research (key words):**

biocatalysis, enzyme inhibitors design

- **Jacek Leman**  
associate professor

Department of Food Technology  
Institute of Food Biotechnology  
University of Agriculture and Technology  
*Zakład Technologii Żywności*  
*Instytut Biotechnologii Żywności*  
*Akademia Rolniczo-Techniczna*  
10-957 Olsztyn 5  
phone (089) 23 32 33, 23 36 50  
fax (089) 27 39 08

**research (key words):**

microbial lipids, agricultural waste, lipases, protein  
functionality, fermentation technology

**application of research:**

food technology and pharmaceutical industry

- **Andrzej Leonowicz**  
 professor,  
 Head of the Department

Department of Biochemistry  
 M. Curie-Skłodowska University  
*Zakład Biochemii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
 pl. M. Curie-Skłodowskiej 3, 20-031 Lublin  
 phone (081) 37 56 65, 37 57 37 or 37 57 22  
 fax (081) 37 51 02 or 33 669  
 e-mail: leon@hermes.umsc.lublin.pl

**research (key words):**

ligninocellulose, biotransformation, higher fungi, edible fungi, fungal enzymes, immobilization, phenolics, biomass biotechnology of fungal enzymes, production of edible fungal fruit bodies and fungal biomass for feeding and nutrition, production of enzymes

**application of research:**

- **Jerzy Lewosz**  
 associate professor,  
 Head of the Biochemical  
 Laboratory

Institute for Potato Research  
*Instytut Ziemniaka*  
 76-009 Bonin k. Koszalina  
 phone (094) 42 30 31  
 fax (094) 42 70 28

**research (key words):**

potato, resistance to pests, pectic enzymes, protease inhibitors

**application of research:**

plant breeding and protection

**technology and/or know-how available:**

micropropagation

**service available:**

chemotaxonomic identification of cultivars

**culture collections:**

potato and pathogenic microorganisms

- **Zdzisława Libudzisz**  
 associate professor

Institute of Fermentation Technology and Microbiology  
 Technical University of Łódź  
*Instytut Technologii Fermentacji i Mikrobiologii*  
*Politechnika Łódzka*  
 ul. Wólczarska 175, 90-530 Łódź  
 phone (042) 31 34 86  
 fax (042) 88 42 20

**research (key words):**

lactic acid bacteria, metabolism, genetics

- **Dorota Linowiecka**  
 researcher

Department of Polymer Biotechnology  
 Institute of Chemical Fibres  
*Zakład Biotechnologii Polimerów*  
*Instytut Włókien Sztucznych*  
 ul. M. Skłodowskiej-Curie 19/27, 90-570 Łódź  
 phone (042) 37 67 44  
 fax (042) 37 62 14

**research (key words):**

biosynthesis of polymers — alginate, collagen production from skin fish

**application of research:**

medicine

**Zbigniew Lorkiewicz**

professor,  
member of the Polish  
Academy of Sciences

Department of General Microbiology  
M. Curie-Skłodowska University  
*Zakład Mikrobiologii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
ul. Akademicka 19, 20-033 Lublin  
phone (081) 37 50 73  
fax (081) 37 51 02

**research (key words):**

genetics of biological nitrogen fixation, gene cloning, DNA sequencing, lipopolysaccharides, exopolysaccharides  
*Legionella*-like microorganisms, *Rhizobium*

**application of research:**

inoculant strains for legumes

**Jerzy Lutomski**

professor, dr h.c.,  
Director of the Institute,  
editor "Herba Polonica"

Institute of Medicinal Plants  
*Instytut Roślin i Przetworów Zielarskich*  
ul. Libelta 27, 61-707 Poznań  
phone (061) 52 56 16, 52 40 03  
fax (061) 52 74 63

**research (key words):**

phytochemistry of natural immunoregulatory compounds,  
plant tissue culture as a source of natural biologically active compounds

**application of research:**

production of plant drugs

**Bogdan Wojciech Łaczyński**

Ph.D., adviser

Department of Spirit and Yeasts Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 236  
fax (022) 49 04 26

**research (key words):**

alcoholic fermentation

**application of research:**

agriculture and food technology

**Jerzy Łobarzewski**

professor

Department of Biochemistry  
M. Curie-Skłodowska University  
*Zakład Biochemii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
pl. M. Curie-Skłodowskiej 3, 20-031 Lublin  
phone (081) 37 56 66

**research (key words):**

plant biochemistry, immobilization of proteins, affinity chromatography, enzymology, peroxidase, lignin degradation  
pharmaceutical industry

**application of research:****technology and/or know-how available:**

immobilization of penicillin acylase (covalent binding),  
industrial scale

**commercial product:**

acrylonitrile-divinylbenzene copolymer (applicable for industrial scale), penicillin acylase

- **Ewa Łojkowska**  
professor

Faculty of Biotechnology  
Department of Microbiology  
University of Gdańsk  
*Wydział Biotechnologii*  
*Zakład Mikrobiologii*  
*Uniwersytet Gdański*  
ul. Kładki 24, 80-822 Gdańsk  
phone (058) 31 28 07, 31 22 41 ex. 45  
fax (058) 31 28 07

**research (key words):**

molecular plant-pathogen interaction

- **Stefan Malepszy**  
professor,  
Director of the Department

Department of Plant Genetics, Breeding and Biotechnology  
Warsaw Agricultural University  
*Katedra Genetyki, Hodowli Roślin i Biotechnologii*  
*Akademia Rolnicza*  
ul. Nowoursynowska 166, 02-766 Warszawa  
phone (022) 43 09 82  
fax (022) 47 15 62  
e-mail: malepszy@sggw.sggw.waw.pl

**research (key words):**

somatic embryogenesis, *in vitro* selection, gene technology,  
molecular genetics of sex, *Cucurbitaceaus*, rye, tomato

**technology and/or know-how  
available:**

somatic embryogenesis, cucumber selection of various  
mutants, cucumber transformation

**culture collection available:**

*in vitro* collection of resistant and transformed strains (as  
callus culture), 17 strains

- **Janusz Malinowski**  
researcher

Institute of Chemical Engineering  
Polish Academy of Sciences  
*Instytut Inżynierii Chemicznej*  
*Polska Akademia Nauk*  
ul. Bałtycka 5, 44-100 Gliwice  
phone (032) 31 08 11  
fax (032) 31 03 18

**research (key words):**

downstream separation, liquid-liquid extraction, bioprocess  
engineering, immobilization

**application of research:**

bioprocess engineering technology, downstream separation,  
immobilization of enzymes, downstream separation of  
bioproducts

**Joanna Masłowska**

professor

Department of Bioorganic Chemistry and Analytical Group  
Institute of General Food Chemistry  
Technical University of Łódź  
*Zakład Chemii Bioorganicznej i Analitycznej*  
*Instytut Podstaw Chemii Żywności*  
*Politechnika Łódzka*  
ul. B. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 16

**research (key words):**

trace amounts of metal ions, bioligands, metal complexes with bioligands, enzymatic reactions in chemical analysis, toxic pollutants of food and environmental

**Stanisław Michałowski**

professor,

Head of the Department

Department of Technology of Food Refrigeration  
Institute of Chemical Technology of Food  
Technical University of Łódź  
*Zakład Technologii Chłodnictwa Żywności*  
*Instytut Chemicznej Technologii Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 36 74 88  
fax (042) 31 34 02  
telex 88 42 20, 88 61 36

**research (key words):**

thermal properties, heat transfer, drying equilibria and kinetics

**application of research:**

storage of foods, production of healthy foods

**service available:**

elaboration of new methods of food storage

**technology and/or know-how****available:**

refrigeration storage of foods, storage of foods under modified atmosphere

**Marek Mielczarek**

assistant professor, lecturer

Department of Bioprocess Engineering  
Institute of Chemical Engineering  
Technical University of Wrocław  
*Zakład Inżynierii Bioprosesowej*  
*Instytut Inżynierii Chemicznej*  
*Politechnika Wrocławska*  
ul. Norwida 4/6, 53-373 Wrocław  
phone (071) 20 36 49  
fax (071) 22 36 64

**research (key words):**

downstream processing, membrane separation

**application of research:**

membrane separation of bioproducts, purification of water

**technology and/or know-how****available:**

isolation of bioproducts, wine clarification, ultra-pure water, membrane separation: MR, UF, RO

- **Korneliusz Miksch**  
professor,  
Head of the Department,  
Dean of the Faculty
- Faculty of Environmental and Energy Engineering  
Department of Environmental Biotechnology  
Silesian Technical University  
*Wydział Inżynierii Środowiska i Energetyki*  
*Zakład Biotechnologii Środowiskowej*  
*Uniwersytet Śląski*  
ul. Konarskiego 18, 44-101 Gliwice  
phone (032) 37 29 46  
fax (032) 37 17 94
- research (key words):** wastewater treatment, waste management, environmental management  
**application of research:** urban and industrial wastewater treatment, waste management, environmental protection
- **Janusz Antoni Milewski**  
Ph.D., assistant professor
- Department of Spirit and Yeast Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71
- research (key words):** alcohol beverages, lactic acid bacteria, electro dialysis  
**application research:** food engineering, alcohol beverages
- **Konrad Misiura**  
researcher
- Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
ul. Sienkiewicza 112, 90-363 Łódź  
phone (042) 81 97 44  
fax (042) 81 54 83, 84 71 26
- research (key words):** modified oligonucleotides, nucleolitic enzymes  
**application research:** antiviral agents
- **Zbigniew Miszalski**  
associate professor
- Department of Plant Physiology  
Polish Academy of Sciences  
*Zakład Fizjologii Roślin*  
*Polska Akademia Nauk*  
ul. Sławkowska 17, 31-016 Kraków  
phone (012) 22 79 44  
fax (012) 21 79 01
- research (key words):** SO<sub>2</sub>, O<sub>3</sub>, CO<sub>2</sub>, Cd<sup>++</sup> sensitivity, green plants, fungi, tissue culture, protoplasts

■ **Tadeusz Miśkiewicz**  
Ph.D.

Department of Food Biotechnology  
Academy of Economics  
*Katedra Biotechnologii Żywności*  
*Akademia Ekonomiczna*  
ul. Komandorska 118/120, 53-345 Wrocław 2  
phone (071) 68 02 69  
fax (071) 67 27 78  
e-mail zbgarnc@unix.ok.ae.wroc.pl

**research (key words):**

food technology, control of fermentation process, baker's yeast

■ **Beata Mizak**  
assistant professor

Department of Small Animal Diseases  
National Veterinary Research Institute  
*Zakład Chorób Zwierząt Mięsożernych i Futerkowych*  
*Państwowy Instytut Weterynaryjny*  
al. Partyzantów 57, 24-100 Puławy  
phone (0831) 30 51 ex. 210  
fax (0831) 25 95

**research (key words):**

virus vectors, diagnostic tests, viral infections of animals

**application of research:**

diagnosis and immunoprophylaxis of viral diseases of dogs

■ **Rafał Mól**  
Ph.D., researcher

Faculty of Biology  
Adam Mickiewicz University  
*Wydział Biologii*  
*Uniwersytet im. Adama Mickiewicza*  
al. Niepodległości 14, 61-713 Poznań  
phone (061) 52 56 03

**research (key words):**

*in vitro* culture, plant embryology and transformation

**application of research:**

plant transformation

■ **Piotr Moszczyński**  
assistant professor

Faculty of Food Chemistry and Biotechnology  
Institute of Technical Biochemistry  
Technical University of Łódź  
*Wydział Chemii Żywności i Biotechnologii*  
*Instytut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 32, 36 77 04

**research (key words):**

vitamins, coenzymes

- **Grażyna Muszyńska**  
 professor, Deputy Director,  
 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*  
 ul. Pawińskiego 5a, 02-106 Warszawa  
 phone (022) 658 47 06  
 fax (022) 658 46 36

**research (key words):**

structure and function of proteins, plant enzymology, plant protein kinases and phosphatases, biorecognition  
 determination of enzymes activity, purification of proteins

**service available:**

**technology and/or know-how available:**

enzymology, isolation and purification of protein kinases and phosphatases, affinity chromatography techniques

- **Krystyna Olańczuk-Neyman**  
 professor

Environmental Engineering Faculty  
 Technical University of Gdańsk  
*Wydział Inżynierii Środowiska*  
*Politechnika Gdańska*  
 ul. G. Narutowicza 11/12, 80-952 Gdańsk  
 phone (058) 47 27 43  
 fax (058) 47 24 13

**research (key words):**

groundwater, microbiology, iron binding bacteria, sulphur bacteria

- **Ewa Niewiadomska**  
 assistant professor

Department of Plant Physiology  
 Polish Academy of Sciences  
*Zakład Fizjologii Roślin*  
*Polska Akademia Nauk*  
 ul. Stawkowska 17, 31-016 Kraków  
 phone (012) 22 79 44  
 fax (012) 21 79 01

**research (key words):**

SO<sub>2</sub>, O<sub>3</sub>, CO<sub>2</sub>, Cd<sup>++</sup> — sensitivity green plants, fungi, tissue culture, protoplasts

- **Wojciech Niewiarowski**  
 Ph.D.

Department of Bioorganic Chemistry  
 Centre of Molecular and Macromolecular Studies  
 Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
 ul. Sienkiewicza 112, 90-363 Łódź  
 phone (042) 81 89 52 ex. 249, 81 97 44  
 fax (042) 84 71 26

**research (key words):**

protein engineering, DNA cloning, PCR, cytokinines



■ **Jerzy Nowak**

professor,  
Director of the Institute,  
Head of the Laboratory

Department of Immunogenetics  
Institute of Human Genetics  
Polish Academy of Sciences  
*Laboratorium Immunogenetyki  
Zakład Genetyki Człowieka  
Polska Akademia Nauk*  
ul. Strzeszyńska 32, 60-479 Poznań  
phone (061) 23 32 35, 23 30 11  
fax (061) 23 32 35  
telex 041 2718

**research (key words):**

lymphocyte antigens and receptors, rearrangement of immunoglobulin and T cell receptor genes, leukemia, erythrocyte complement receptor, TCR and Ig genes classification, diagnosis and monitoring of lymphoproliferative diseases

**application of research:**

**technology and/or know-how available:**

cell culture, immunophenotyping, PCR to monitor minimal residual disease

■ **Andrzej Noworyta**

professor,  
Director of the Institute and  
Head of the Department

Department of Bioprocess Engineering  
Institute of Chemical Engineering  
Technical University of Wrocław  
*Zakład Inżynierii Bioprocessowej  
Instytut Inżynierii Chemicznej  
Politechnika Wroclawska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 21 13 18  
fax (071) 21 13 18

**research (key words):**

membrane separation, membrane bioreactors, separation techniques, immobilization

**application of research:**

**service available:**

pharmaceutical plants, wastewater treatment consulting

■ **Helena Oberman**

professor,  
Director of the Institute and  
Head of the Department

Institute of Fermentation Technology and Microbiology  
Technical University of Łódź  
*Instytut Technologii Fermentacji i Mikrobiologii  
Politechnika Łódzka*  
ul. Wólczajska 175, 90-530 Łódź  
phone (042) 36 36 39, 36 55 22  
fax (042) 88 42 20, 88 47 16

**research (key words):**

technical microbiology, yeast, lactic acid bacteria, storage, preservation, stabilization

**application of research:**

**service available:**

**culture collections available:**

industrial microbiology  
experts groups in industrial microbiology  
"LOCK" 105 — industrial yeasts, bacteria, about 550 strains (available without limitations for laboratories and industry)

- **Wiesława Ogórkiewicz**  
Ph.D., researcher,  
Head of the Department

Department of Research Organization and Scientific  
Technological Information  
Institute of Agro- and Food Biotechnology  
*Zakład Organizacji Badań i Informacji Naukowo-Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 81 90  
fax (022) 49 04 26

**research (key words):**

food science and technology, information, information —  
retrieval languages

**application of research:**

information retrieval system for food research and technology

**service available:**

SDI, food retrospective searching, food annotated  
bibliographies

- **Andrzej Okruszek**  
associate professor

Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
ul. Sienkiewicza 112, 90-363 Łódź  
phone (042) 81 97 44, 81 89 52 ex. 215  
fax (042) 84 71 26, 81 54 83

**research (key words):**

synthesis of proteins by rec DNA technology, stereospecific  
synthesis of P-chiral biophosphates

**application of research:**

pharmaceutical industry (modulators of gene expression)

- **Olga Ilnicka-Olejniczak**  
professor,  
Head of the Department

Department of Technical Microbiology  
Institute of Agro- and Food Biotechnology  
*Zakład Mikrobiologii Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 04 06, 49 01 71 ex. 274  
fax (022) 49 04 26

**research (key words):**

strain improvement and preservation, biosynthesis, solid  
state fermentation, yeast, microscopic fungi, bacteria

**application of research:**

microbial industry

■ **Jan Olejniczak**

assistant professor

Department Mutagenesis Section  
 Institute of Plant Genetics  
 Polish Academy of Sciences  
*Zakład Mutagenезy*  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 34, 60-479 Poznań  
 phone (061) 23 35 11  
 fax (061) 22 11 22

**research (key words):***Cuphea*, *Brassica*, culture *in vitro***application of research:**

alternative plants, domestication

■ **Teresa Orlikowska**

associate professor,

Head of the Laboratory

Department of Ornamental Plant Breeding  
 Research Institute of Pomology and Floriculture  
*Zakład Hodowli Roślin Ozdobnych*  
*Instytut Sadownictwa i Kwiaciarnictwa*  
 ul. Pomologiczna 18, 96-100 Skierniewice  
 phone (040) 33 20 41, 33 30 65  
 fax (040) 33 32 28

**research (key words):**regeneration, micropropagation, transformation, *in vitro* storage**application of research:**ornamental plant breeding, regeneration, micropropagation, transformation, *in vitro* storage, flower bulbs: rose, gerbera, pot plant■ **Krzysztof Ostrówka**

Ph.D., researcher

Institute of Plant Genetics  
 Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 34, 60-479 Poznań  
 phone (061) 23 35 11  
 fax (061) 22 11 22

**research (key words):**

plant viruses, regulation of plant defence systems against infection

**application of research:**

molecular plant virology, transformation of plants, production of resistant varieties

■ **Włodzimierz S. Ostrowski**

professor,

Director of the Institute,

member of the Polish  
Academy of Sciences

Institute of Medical Biochemistry  
 Collegium Medicum  
 Jagiellonian University  
*Instytut Biochemii Lekarskiej*  
*Uniwersytet Jagielloński*  
 ul. Kopernika 7, 31-034 Kraków  
 phone (012) 22 32 72, 22 74 00  
 fax (012) 21 46 64

**research (key words):**

enzymology, phosphorylation and transphosphorylation of proteins and nucleic acids

- **Andrzej L. Pawlak**  
 professor,  
 Head of the Department

Department of Molecular Pathology and Mutagenesis  
 Institute of Human Genetics  
 Polish Academy of Sciences  
*Laboratorium Patologii Molekularnej i Mutogenezy*  
*Zakład Genetyki Człowieka*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 32, 60-479 Poznań  
 phone (061) 23 32 35, 23 30 11  
 fax (061) 23 32 35  
 telex 041 2718

**research (key words):**

hereditary susceptibility to cancer, benzo/ $\alpha$ /pyrene, locus Ah, ataxia telangiectasia, familial polyposis coli  
 molecular dosimetry of exposure and biological effect of polycyclic aromatic hydrocarbons

**application of research:**

**technology and/or know-how available:**

measurement of DNA adducts

- **Zygmunt Pejsak**  
 professor,  
 Head of the Department

Department of Swine Diseases  
 National Veterinary Research Institute  
*Zakład Chorób Świń*  
*Państwowy Instytut Weterynaryjny*  
 al. Partyzantów 57, 24-100 Puławy  
 phone (0831) 30 51  
 fax (0831) 25 95  
 telex 06 42 401

**research (key words):**

immunoprophylaxy and diagnosis of swine diseases  
 veterinary, production of kits and vaccines (diagnosis, immunoprophylaxis)

**application of research:**

**service available:**

production of vaccines, treatment and prophylaxis of swine diseases, O.I.E. reference laboratory

**commercial product:**

cell culture vaccines: "Cellpest", "Suimastivac", "Rhinovac-P" (used for immunoprophylaxis of diseases of swine)

**culture collection:**

PK-15, ST, SK, MA-104, Vero, BHK, MS (available on request)

- **Andrzej Pisula**  
 professor

Department of Food Technology  
 Warsaw Agricultural University  
*Zakład Technologii Żywności*  
*Akademia Rolnicza*  
 ul. Grochowska 272, 03-849 Warszawa  
 phone (022) 10 35 51, 10 01 63

**research (key words):**

biochemistry of meat, meat aging, quality of meat

■ **Andrzej Plucienniczak**

professor,  
Head of the Laboratory

P. P. TERPOL  
Laboratory of Genetic Engineering  
*Laboratorium Inżynierii Genetycznej*  
P.P. TERPOL  
ul. P.O.W. 57, 98-200 Sieradz  
phone (043) 55-86  
fax (043) 71-200

**research (key words):**  
**application of research:**  
**service available:**

transgenic plants, expression of viral antigens in plants  
production of antigens  
DNA cloning and sequencing

■ **Anna Podhajska**

professor

Department of Microbiology  
Faculty of Biotechnology  
University of Gdańsk  
*Zakład Mikrobiologii*  
*Wydział Biotechnologii*  
*Uniwersytet Gdański*  
ul. Kładki 24, 80-822 Gdańsk  
phone (058) 31 28 07, 31 22 41 ex. 30  
fax (058) 31 28 07

**research (key words):**  
**application of research:**  
**commercial product:**

restriction enzymes, antibiotics  
microbiology, molecular biology  
endonucleases, purified DNA (plasmid virale), DNA size  
marker, pure enzymes

■ **Ryszard Pohorecki**

professor  
vice-Chairman of  
the Biotechnology Committee  
of the Polish Academy  
of Sciences

Faculty of Chemical and Process Engineering  
Technical University of Warsaw  
*Wydział Inżynierii Chemicznej i Procesowej*  
*Politechnika Warszawska*  
ul. Waryńskiego 1, 00-645 Warszawa  
phone (022) 25 85 64  
fax (022) 25 14 40

**research (key words):**

chemical and bioreactor engineering, bioprocess engineering,  
heat and mass transfer in bioreactors

■ **Jacek Polak**

lecturer

Institute of Technical Biochemistry,  
Faculty of Food Chemistry and Biotechnology  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Chemii Żywności i Biotechnologii*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 32, 36 77 04

**research (key words):**  
**service available:**

tyrosine phenol lyase, gene cloning and expression  
DNA isolation and purification

- **Antoni Polanowski**  
 professor,  
 Associate Director

Department of Enzymology and Biotechnology  
 Institute of Biochemistry  
 University of Wrocław  
*Zakład Enzymologii i Biotechnologii*  
*Instytut Biochemii*  
*Uniwersytet Wrocławski*  
 ul. Tamka 2, 50-137 Wrocław  
 phone (071) 40 26 40  
 fax (071) 40 26 08

**research (key words):**

proteinases, inhibitors of proteolytic enzymes, biosynthesis of hydrolytic enzymes and their application, downstream processing

**application of research:**

food and pharmaceutical industry

**commercial products:**

bovine trypsin, urease, soybean trypsin inhibitor, bovine serum albumin

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

Department of Embriology and Tissue Culture  
 Institute of Plant Genetics  
 Polish Academy of Sciences  
*Zakład Embriologii Kultur Tkankowych*  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 34, 60-479 Poznań  
 phone (061) 23 35 11  
 fax (061) 22 11 22

**research (key words):**

anther culture, embryo culture, wide hybridization

**application of research:**

cereals, grasses, production of haploids and hybrid plants

- **Rita Pyć**  
 Ph.D., researcher

Institute of Technical Biochemistry  
 Faculty of Food Chemistry and Biotechnology  
 Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Chemii Żywności i Biotechnologii*  
*Politechnika Łódzka*  
 ul. Stefanowskiego 4/10, 90-924 Łódź  
 phone (042) 31 34 32, 36 77 04

**research (key words):**

lignocellulose, cellulolytic enzymes, fungal biomass, fungal enzymes biosynthesis

**application of research:**

food industry, textile industry

**service available:**

consulting in technology of cellulolytic enzymes production

■ **Czesław Radzikowski**  
 professor,  
 Head of the Department

Department of Tumor Immunology  
 Institute of Immunology and Experimental Therapy  
 Polish Academy of Sciences  
*Zakład Immunologii Nowotworów*  
*Instytut Immunologii i Terapii Doświadczalnej*  
*Polska Akademia Nauk*  
 ul. Czerska 12, 53-114 Wrocław  
 phone (071) 73 22 74  
 fax (071) 67 91 11

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

cancer immunology, experimental therapy  
 experimental anticancer therapy, new molecular targets for  
 cancer diagnosis and therapy

■ **Arnold Reps**  
 professor,  
 Director of the Institute

Department of Food Technology  
 Institute of Food Biotechnology  
 University of Agriculture and Technology  
*Zakład Technologii Żywności*  
*Instytut Biotechnologii Żywności*  
*Akademia Rolniczo-Techniczna*  
 10-957 Olsztyn-Kortowo bl. 43  
 phone (089) 23 32 33  
 fax (089) 27 39 08

**research (key words):**  
**application of research:**  
**service available:**

food biotechnology — enzymes, proteins, nutrition, cheese,  
 fermentation, microorganism  
 food products and processing  
 product development and consulting on dairy, fermentation  
 and grains technology

■ **Jerzy Rogalski**  
 assistant professor

Department of Biochemistry  
 M. Curie-Skłodowska University  
*Zakład Biochemii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
 pl. M. Curie-Skłodowskiej 3, 20-031 Lublin  
 phone (081) 37 56 68, 37 57 37  
 fax (081) 37 51 02, 33 669

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

lignocellulose, affinity chromatography, immobilization,  
 enzymology, biotechnology, biomass, industrial waste  
 biomass production, production of enzymes

■ **Stanisław Rosochacki**

Ph. D.

Department of Molecular Biology  
Institute of Genetics and Animal Breeding  
Polish Academy of Sciences  
*Zakład Biologii Molekularnej*  
*Instytut Genetyki i Hodowli Zwierząt*  
*Polska Akademia Nauk*  
Jastrzębiec, 05-551 Mroków  
phone (022) 56 05 12 19 ex. 366  
fax (022) 56 04 99

**research (key words):**

**application of research:**

gene transfer, construction of genes  
transgenic animals

■ **Stefan Rowiński**

curator of culture collection

Department of Microbiology  
Institute of Immunology and Experimental Therapy  
Polish Academy of Sciences  
*Zakład Mikrobiologii*  
*Instytut Immunologii i Terapii Doświadczalnej*  
*Polska Akademia Nauk*  
ul. Czerska 12, 53-114 Wrocław  
phone (071) 73 22 74  
fax (071) 67 91 11

**research (key words):**

**application of research:**

**service available:**

**commercial products:**

**culture collections available:**

medical and general microbiology  
medicine, biology, biotechnology  
supply of bacterial cultures, information on strain sources,  
features and cultivation conditions  
microbial cultures (freeze-dried or alive) for research,  
education and industry  
on request of bona fide scientific laboratories

■ **Jan Jarosław Rybczyński**

associate professor

Botanical Garden  
Polish Academy of Sciences  
*Ogród Botaniczny*  
*Polska Akademia Nauk*  
ul. Prawdziwka 2, Warszawa  
phone (022) 42 79 01, 42 79 27  
fax (022) 57 66 45

**research (key words):**

**culture collections available:**

plant regeneration, plant morphogenetics, crops, alternative  
plants  
*Rhododendrons, Ananas, Rose, Ferns, Lilium, Amaranthus,*  
*Secale, Lupinus*



■ **Danuta Rymkiewicz**  
professor,  
Head of the Department

Department of Serum and Vaccine Research  
National Institute of Hygiene  
*Zakład Badania Surowic i Szczepionek*  
*Państwowy Zakład Higieny*  
ul. Chocimska 24, 00-791 Warszawa  
phone (022) 49 76 12, 49 70 84  
fax (022) 49 74 84

**research (key words):**

control of biopreparations

■ **Leon Sedlaczek**  
professor,  
Director of the Centre

Centre of Microbiology and Virology  
Polish Academy of Sciences  
*Centrum Mikrobiologii i Wirusologii*  
*Polska Akademia Nauk*  
ul. Lodowa 106, 93-232 Łódź  
phone (042) 49 22 77, 49 22 63

**research (key words):**

physiology of industrial microorganism, sterol side chain  
degradation, steroid hydroxylation, fungal protoplasts  
microbial cell envelopes

**application of research:**

medical steroids manufacturing

■ **Janusz A. Siedlecki**  
Ph.D.,  
Head of the Department

Department of Molecular Biology  
Cancer Center Institute  
*Zakład Biologii Molekularnej*  
*Centrum Onkologii*  
ul. Findera 101, 02-781 Warszawa  
phone (022) 644 50 24 ex. 2093

**research (key words):**

DNA repair, DNA polymerase  $\beta$ , gene expression of DNA pol  $\beta$ ,  
diagnosis of cancer disease

**application of research:**

■ **Bogdan Sieliwanowicz**  
Ph.D., associate professor

Institute of Agro- and Food Biotechnology  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 04 18  
fax (022) 49 04 26

**research (key words):**

biochemistry, enzymology, genetic engineering

**application of research:**

enzymes and cell immobilization, food processing

- **Ignacy Zenon Siemion**  
professor,  
Head of the Department

Department of Organic Chemistry  
Institute of Chemistry  
University of Wrocław  
*Zakład Chemii Organicznej*  
*Instytut Chemii*  
*Uniwersytet Wrocławski*  
ul. F. Joliot-Curie 14, 50-383 Wrocław  
phone (071) 22 92 83  
fax (071) 22 14 06

**research (key words):**

peptide chemistry and biology, peptide synthesis, peptide conformation

**application of research:**

theoretical medicine and therapy

**service available:**

consulting on peptide synthesis, spectroscopy and circular dichroism

**commercial products:**

peptide immunomodulators (Tuftsin, Pentigetide, Thymopentin analogues, Cyclolinopeptide A)

- **Antoni Siewiński**  
professor,  
Head of the Department

Department of Fundamental Chemistry  
University of Agriculture  
*Zakład Chemii Ogólnej*  
*Akademia Rolnicza*  
ul. Norwida 25, 50-375 Wrocław  
phone (071) 20 51 45  
fax (071) 22 95 76

**research (key words):**

biotransformation of organic compounds (isoprenoids, steroids), biodegradation and biosolubilization of coal, microorganisms, tissue cultures, secondary bioactive-metabolites

**application of research:**

hydroksylation, enantio-, regio- and stereospecific reactions, degradation of coal structure

- **Krystyna Siwińska**  
researcher

Institute of Technical Biochemistry  
Faculty of Food Chemistry and Biotechnology  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Chemii i Biotechnologii Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 41, 36 77 04

**research (key words):**

acid stable amylases, glucomylase, cellulases

**application of research:**

food industry, clarification of fruit juices

■ **Anna Skorupska**

professor

Institute of Microbiology  
M. Curie-Skłodowska University  
*Instytut Mikrobiologii*  
*Uniwersytet Marii Curie-Skłodowskiej*  
ul. Akademicka 19, 20-033 Lublin  
phone (081) 37 50 07  
fax (081) 37 51 02

**research (key words):**

genetics of microorganisms, cloning of nitrogen fixing genes, sequencing

■ **Lutosława Skrzypczak**

professor,

Head of the Department

Department of Pharmaceutical Botany  
Medical Academy  
*Zakład Botaniki Farmaceutycznej*  
*Akademia Medyczna*  
ul. Wieniawskiego 1, 61-712 Poznań  
phone (061) 53 69 38

**research (key words):**

*in vitro* cultures, phytochemistry, medicinal plants, pharmacologically active compounds

**application of research:**

production of natural drugs

■ **Zdzisław Smorąg**

professor,

Head of the Department

National Research Institute of Animal Production  
*Instytut Zootechniki*  
32-083 Balice k. Krakowa  
phone (012) 11 31 11 ex. 308

**research (key words):**

reproduction of farm animals, cryopreservation of oocytes, and embryos, *in vitro* fertilization, embryo cloning, transgenic animals, manipulation on mammalian gametes and embryos  
animal production

**application of research:**■ **Jerzy H. Sobieszcański**

professor

Department of Biotechnology and Food Microbiology  
Academy of Agriculture  
*Katedra Biotechnologii i Mikrobiologii Żywności*  
*Akademia Rolnicza*  
ul. Norwida 25, 50-375 Wrocław  
phone (071) 20 51 16  
fax (071) 22 95 76

**research (key words):**

pesticide residue (food, soil, water) interaction between pesticide — microorganism and plant, bioremediation

**application of research:**

environmental biotechnology

- **Ewa Solarska**  
Ph.D.,  
Head of the Laboratory
- research (key words):** diseases of hop, fungi, viruses, spider mites, hop aphids  
**application of research:** agriculture, control of diseases and pests  
**commercial product:** virus free hop plants
- Institute of Soil Science and Plant Cultivation  
*Instytut Uprawy, Nawożenia i Gleboznawstwa*  
Osada Pałacowa, 24-100 Puławy, 21-002 Jastków  
phone (0831) 34 21, 34 22
- **Wojciech Jacek Stec**  
professor,  
Head of the Department,  
Chairman of the Biotechnology  
Committee of the Polish Academy  
of Sciences,  
member of the Polish Academy  
of Sciences
- research (key words):** oligonucleotides and analogues, antisense, protein  
engineering, phosphorothioates, methanophosphonates  
**application of research:** medicine, modulators of gene expression  
**service available:** DNA synthesis, protein sequencing  
**technology and/or know-how  
available:** Hrec  $\alpha$ TNF on gram scale  
**commercial products:** oligonucleotides, oligonucleoside phosphorothioate
- Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
ul. Sienkiewicza 112, 90-363 Łódź  
phone (042) 81 97 44  
fax (042) 81 54 83
- **Krystyna Maria Stecka**  
Ph.D., assistant professor
- research (key words):** yeast technology, alcohol fermentation  
**application of research:** yeast production, distillery
- Department of Spirit and Yeast Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 04 25, 49 01 71  
fax (022) 49 04 26
- **Barbara Stefaniak**  
Ph.D., researcher
- research (key words):** plant cell culture, somatic embryogenesis, cell suspension,  
transformation, plant embryology
- Laboratory of General Botany  
Faculty of Biology  
Adam Mickiewicz University  
*Laboratorium Botaniki Ogólnej*  
*Wydział Biologii*  
*Uniwersytet im. Adama Mickiewicza*  
al. Niepodległości 14, 61-713 Poznań  
phone (061) 52 56 03  
fax (061) 53 65 36

**Urszula Szybiak-Stróżycka**

Ph.D., assistant professor

Department of Biochemistry and Biotechnology  
Agricultural University  
*Instytut Biochemii i Biotechnologii*  
*Akademia Rolnicza*  
ul. Wołyńska 35, 60-637 Poznań  
phone (061) 22 45 81 ex. 171, 176  
fax (061) 41 10 22

**research (key words):**

plant molecular virology, gene expression in plants during  
symbiotic nitrogen fixation, viral infection

**Czesław Strumiłło**professor,  
Head of the Department

Department of Heat and Mass Transfer Processes  
Faculty of Process and Environmental Engineering  
Technical University of Łódź  
*Katedra Procesów Ciepłych i Dyfuzyjnych*  
*Wydział Inżynierii Procesowej i Ochrony Środowiska*  
*Politechnika Łódzka*  
ul. Wólczańska 175, 90-924 Łódź  
phone (042) 31 37 00  
fax (042) 36 56 63

**research (key words):**

engineering and thermal processes, simultaneous heat and  
mass transfer, drying

**application of research:**

drying methods, dryers design, food preservation

**service available:**

drying in theory, application and design

**know-how available:**

drying methods, dryer selection and design

**Henryk Struszczyk**professor,  
Research Director

Department of Polymer Biotechnology  
Institute of Chemical Fibres  
*Zakład Biotechnologii Polimerów*  
*Instytut Włókien Chemicznych*  
ul. M. Skłodowskiej-Curie 19, 90-570 Łódź  
phone (042) 37 67 44  
fax (042) 37 62 14

**research (key words):**

biosynthesis of polymers, enzymes and their applications for  
processing of polymers and fibres

**application of research:**

fibres and polymers in medicine, agriculture and chemical  
industry

**commercial products:**

special polymeric materials and new chemical fibres

- **Jerzy Strzeżek**  
professor,  
Head of the Department  
Department of Animal Biochemistry  
University of Agriculture and Technology  
*Zakład Biochemii Zwierząt*  
*Akademia Rolniczo-Techniczna*  
ul. Oczapowskiego 5, 10-728 Olsztyn-Kortowo  
phone (089) 27 83 91  
fax (089) 27 49 38
- **research (key words):** biochemistry and immunology of animal semen,  
cryobiochemistry of spermatozoa, preservation of male gametes  
**application of research:** animal production
- **Przemysław Szafrąński**  
professor,  
Head of the Department  
Department of Protein Biosynthesis  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biosyntezy Białka*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 90  
fax (022) 658 46 36
- research (key words):** potato viroids and viruses, construction of plasmids bearing  
copies of viroid and viral genomes  
**application of research:** detection of potato viroids and viruses
- **Jan Szarek**  
professor,  
Head of the Department  
Department of Cattle Breeding  
University of Agriculture  
*Katedra Hodowli Bydła*  
*Akademia Rolnicza*  
al. Mickiewicza 24/28, 30-059 Kraków  
phone (012) 33 18 98  
fax (012) 233 23 55
- research (key words):** animal production, breeding and management of cattle  
**application of research:** agriculture  
**service available:** consulting
- **Jan W. Szarkowski**  
professor,  
Head of the Department  
Department of Comparative Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biochemii Porównawczej*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 38
- research (key words):** molecular biology, nucleolytic enzymes

■ **Janusz Szczodrak**

associate professor

Department of Industrial Microbiology  
 M. Curie-Skłodowska University  
*Zakład Mikrobiologii Przemysłowej*  
*Uniwersytet Marii Curie-Skłodowskiej*  
 ul. Akademicka 19, 20-033 Lublin  
 phone (081) 37 50 88  
 fax (081) 37 51 02

**research (key words):**

citric acid fermentation, fungal cellulases and dextranases,  
 enzyme-resistant starch

**application of research:**

food and feed processing

■ **Apolinary Szewczuk**

professor,

Head of the Laboratory

Institute of Immunology and Experimental Therapy  
 Polish Academy of Sciences  
*Instytut Immunologii i Terapii Doświadczalnej*  
*Polska Akademia Nauk*  
 ul. Czerska 12, 53-114 Wrocław  
 phone (071) 67 90 81 ex. 191 or 177  
 fax (071) 67 91 11

**research (key words):**

medical diagnostics, immunodiagnostics, immunofiltration  
 tests, detection and assay of human choriongonadotropin  
 pregnancy and trophoblastic test

**application of research:****technology and/or know-how****available:****commercial product:**

mono- and polyclonal antibodies for medical diagnosis  
 immunological test "GRAVIPOL" (immunoenzymatic test for  
 simple and fast diagnosis of pregnancy and trophoblastic disease)

■ **Krzysztof W. Szewczyk**

associate professor

Faculty of Chemical and Process Engineering  
 Technical University of Warsaw  
*Wydział Inżynierii Chemicznej i Procesowej*  
*Politechnika Warszawska*  
 ul. Waryńskiego 1, 00-645 Warszawa  
 phone (022) 21 03 61 ex. 64 13  
 fax (022) 21 14 40

**research (key words):**

solid state fermentation, bioprocess modelling

**application of research:**

enzyme production, ethanol fermentation

■ **Józef Stanisław Szopa**

assistant professor

Institute of Fermentation Technology and Microbiology  
 Technical University of Łódź  
*Instytut Technologii Fermentacji i Mikrobiologii*  
*Politechnika Łódzka*  
 ul. Stefanowskiego 4/10, 90-924 Łódź

**research (key words):**

yeasts, hybrids, genetics selection of yeasts for baker and  
 spirit production

- **Barbara Szteke**  
 associate professor,  
 Head of the Department  
 Department of Food Analysis  
 Institute of Agro- and Food Biotechnology  
*Zakład Analizy Żywności*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
 ul. Rakowiecka 36, 02-532 Warszawa  
 phone (022) 49 91 67  
 fax (022) 49 04 26
- research (key words):** analysis of food contaminants  
**application of research:** health and environment protection
- **Piotr Stępień**  
 professor  
 Department of Genetics  
 University of Warsaw  
*Zakład Genetyki*  
*Uniwersytet Warszawski*  
 ul. Pawińskiego 5a, 02-106 Warszawa  
 phone (022) 658 44 99 ex. 2240  
 fax (022) 658 47 54
- research (key words):** molecular genetics, fungi, bacteria, heterologous gene expression  
**application of research:** molecular genetics
- **Maria Surma**  
 Ph.D., researcher  
 Institute of Plant Genetics  
 Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 34, 60-479 Poznań  
 phone (061) 23 35 11  
 fax (061) 22 11 22
- research (key words):** embryo culture, haploid, quantitative genetics, *Hordeum sp.*,  
 embryo culture, haploids  
**application of research:** wide hybridization
- **Krzysztof Szyfter**  
 associate professor,  
 Head of the Laboratory  
 Institute of Human Genetics  
 Polish Academy of Sciences  
*Zakład Genetyki Człowieka*  
*Polska Akademia Nauk*  
 ul. Strzeszyńska 32, 60-479 Poznań  
 phone (061) 23 30 11, 22 13 12  
 fax (061) 23 32 35
- research (key words):** carcinogenesis/mutagenesis  
**application of research:** molecular epidemiology, industrial susceptibility to carcinogens  
**culture collection:** lymphocyte (leukocyte) cell lines  
**technology and/ or know-how available:** DNA adduct analysis, genotyping, <sup>32</sup>P- postlabelling, estimation of human exposure to carcinogens



■ **Lucja Tarabasz-Szymańska**  
researcher

Institute of Technical Biochemistry  
Faculty of Food Chemistry and Biotechnology  
Technical University of Łódź,  
*Instytut Biochemii Technicznej*  
*Wydział Chemii i Biotechnologii Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 41, 36 77 04

**research (key words):**

pullulanase, pullulan, enzymes and microbial  
polysaccharides synthesis

**application of research:**

food industry, pharmacy

**commercial product:**

pullulan

■ **Marek Świtoński**  
professor,  
Head of the Department

Department of Genetics and Animal Breeding  
Agricultural University  
*Katedra Genetyki i Podstaw Hodowli Zwierząt*  
*Akademia Rolnicza*  
ul. Wołyńska 33, 60-637 Poznań  
phone (061) 48 72 46  
fax (061) 48 71 46

**research (key words):**

gene mapping, meiosis in germ cells SC's, IVM/IVF  
chromosome abnormalities, meiosis in male and female  
animal genetics

**application of research:**

■ **Zdzisław Targoński**  
associate professor

Department of Food Technology  
University of Agriculture  
*Katedra Technologii Żywności*  
*Akademia Rolnicza*  
ul. Akademicka 13, 20-934 Lublin  
phone (081) 55 47 70  
fax (081) 335 49

**research (key words):**

food technology, cellulase, enzymatic hydrolysis of cellulose

■ **Czesław Tarkowski**  
professor,  
Director of the Institute

Institute of Genetics and Plant Breeding  
Faculty of Agriculture  
University of Agriculture  
*Instytut Genetyki i Hodowli Roślin*  
*Wydział Rolniczy*  
*Akademia Rolnicza*  
ul. Akademicka 13, 20-934 Lublin  
phone (081) 37 66 75  
fax (081) 335 49

**research (key words):**

genetics and plant breeding, cytogenetics of triticale and  
wheat

**application of research:**

crops breeding

**culture collections available:**

plant collections: *Triticale* and *Triticum durum*; resource number  
of *Triticale* - 1700, *T. durum* - 350 (register: IHAR, Radzików)

- **Barbara Thiem**  
Ph.D., researcher

Department of Pharmaceutical Botany  
Medical Academy  
*Zakład Botaniki Farmaceutycznej*  
*Akademia Medyczna*  
ul. Wieniawskiego 1, 61-712 Poznań  
phone (061) 53 69 38

**research (key words):**

plant tissue culture, micropropagation, callus, suspension culture, biologically active secondary metabolites, medicinal plants

**application of research:**

micropropagation of medicinal plants, production of natural drugs

- **Zygmunt Tomaszewski, Jr.**  
Ph.D., researcher

Department of Tissue Culture  
Institute of Plant Breeding and Acclimatization  
*Zakład Kultur Tkankowych*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
05-870 Błonie  
phone (022) 55 26 11 ex. 284  
fax (022) 55 47 14

**research (key words):**

tissue culture, androgenesis, anther culture, *Gramineae*

- **Maria Trzcńska**  
Ph.D., researcher

Department of Beer and Malt Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Piwa i Stodu*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 07 71  
fax (022) 49 04 26

**research (key words):**

enzymes, immobilization

**application of research:**

enzyme purification

- **Tadeusz Przemysław Trzmiel**  
researcher

Institute of Technical Biochemistry  
Faculty of Food Chemistry and Biotechnology  
Technical University of Łódź  
*Instytut Biochemii Technicznej*  
*Wydział Chemii i Biotechnologii Żywności*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 31 34 34, 36 77 04

**research (key words):**

bacterial proteinases

**application of research:**

food industry

■ **Marianna Turkiewicz**  
associate professor

Institute of Technical Biochemistry  
Technical University of Łódź  
*Institut Biochemii Technicznej*  
*Politechnika Łódzka*  
ul. Stefanowskiego 4/10, 90-924 Łódź  
phone (042) 36 66 18

**research (key words):**

enzymology, applied biocatalysis, antarctic krill enzymes, serine proteases, polysaccharides

**application of research:**

food industry, medicine, laundry

**service available:**

purification and application of enzymes, consulting

**commercial product:**

crude preparations of pectinases for clarification of fruit juices

■ **Tomasz Twardowski**  
professor,  
Head of the Laboratory  
editor-in-chief „Biotechnologia”

Institute of Bioorganic Chemistry  
Polish Academy of Sciences  
*Institut Chemii Bioorganicznej*  
*Polska Akademia Nauk*  
ul. Noskowskiego 12/14, 61-704 Poznań  
phone (061) 52 85 03 ex. 133, 134  
fax (061) 52 05 32  
e-mail: [twardows@rose.pozman.edu.pl](mailto:twardows@rose.pozman.edu.pl)

**research (key words):**

protein synthesis in plant system (lupin and wheat), regulation of translation — effect of low molecular weight natural products and anti-sense DNA, legal aspects of biotechnology

**application of research:**

consulting: protein biosynthesis in plants, biotechnology intellectual property rights and legal aspects of biotechnology publication for and about biotechnology in Poland

**service available:**

■ **Stefan Tyski**  
associate professor,  
Head of the Department

Sera and Vaccines Central Research Laboratory  
*Centralne Laboratorium Surowic i Szczepionek*  
ul. Chełmska 30/34, 00-725 Warszawa  
phone (022) 41 33 67, 41 29 49, 41 40 71 ex. 237  
fax (022) 41 29 49

**research (key words):**

bacterial virulence factors, serodiagnosis of bacterial infections mechanisms of bacterial antimicrobial agents resistance, epidemiology quality control

**application of research:**

antimicrobial agents inhibitory concentration determination, molecular epidemiology of resistance

**service available:**

determination of susceptibility to antimicrobial agents and mechanisms of resistance

**technology and/or know-how available:**

diagnostic kits in microbiology

- **Stanisław Ułaszewski**  
professor  
Institute of Microbiology  
University of Wrocław  
*Instytut Mikrobiologii*  
*Uniwersytet Wrocławski*  
ul. Przybyszewskiego 63/77, 51-116 Wrocław  
phone (071) 24 73 03  
fax (071) 25 21 51
- research (key words):** yeast, membrane — spanning proteins, transport, signalling and cell cycle, multiple drug resistance, overexpression and secretion of heterologous proteins
- application of research:** microbiology, physiology and genetics of microorganisms
- **Bogdan Uznański**  
Ph.D., researcher  
Department of Bioorganic Chemistry  
Centre of Molecular and Macromolecular Studies  
Polish Academy of Sciences  
*Zakład Chemii Bioorganicznej*  
*Centrum Badań Molekularnych i Makromolekularnych*  
*Polska Akademia Nauk*  
ul. Sienkiewicza 112, 90-363 Łódź  
phone (042) 81 97 44  
fax (042) 84 71 26
- research (key words):** bioorganic chemistry, synthesis of DNA/RNA, DNA modifications
- **Michał du Vall**  
Ph.D., scientific secretary  
Institute of Inventiveness and Protection of Intellectual Property  
Jagiellonian University  
*Międzywydziałowy Instytut Wynalazczości i Ochrony*  
*Własności Intelektualnej*  
*Uniwersytet Jagielloński*  
ul. Marszałka J. Piłsudskiego 13, 31-110 Kraków  
phone (012) 22 04 82  
fax (012) 22 63 06
- research (key words):** legal problems of biotechnology protection, patents and trade marks
- **Witold Stefan Walerych**  
professor,  
Head of the Department  
Department of Biochemistry and Biotechnology  
Agricultural University  
*Katedra Biochemii i Biotechnologii*  
*Akademia Rolnicza*  
ul. Wołyńska 35, 60-637 Poznań  
phone (061) 22 45 81 ex. 186  
fax (061) 41 10 22
- research (key words):** regulation of transcription in higher plants, potato transformation using genetic engineering techniques
- application of research:** agriculture

■ **Lidia D. Wasilewska**  
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*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 44 99 ex. 1214  
fax (022) 658 46 36

**research (key words):**  
**commercial products:**

plant molecular biology  
[<sup>32</sup>P]-radiobiopreparations, nucleosides and nucleotides  
labelled in different positions

■ **Krzysztof Werner**  
M.Sc.

Department of Chemical Engineering  
Institute of Industrial Chemistry  
*Zakład Inżynierii Chemicznej*  
*Instytut Chemii Przemysłowej*  
ul. Rydygiera 8, 01-793 Warszawa  
phone (022) 633 95 11

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

biofilters  
waste gas purification

■ **Maria Wesołowska**  
Ph.D., researcher

Department of Pharmaceutical Botany  
Medical Academy  
*Zakład Botaniki Farmaceutycznej*  
*Akademia Medyczna*  
ul. Wieniawskiego 1, 61-712 Poznań  
phone (061) 53 69 38

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

plant tissue culture, micropropagation of medicinal plants,  
suspension culture, secondary metabolites  
drug production of natural origin

**■ Bernard Wielgat**

associate professor,  
Deputy Director,  
Head of the Laboratory

Department of Plant Biochemistry  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biochemii Roslin*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 95, 658 44 99 ex. 2143  
fax (022) 658 46 38

**research (key words):**

plant genome regulation, tissue and cell culture, plant pathogens

**application of research:**

potato breeding

**service available:**

potato and tobacco tissue culture, micropropagation on laboratory scale

**technology and/or know-how available:**

plant tissue culture, transformation, somaclonal variation

**■ Szczesny M. Wielgosz**

assistant professor

Department of Mutagenesis  
Institute of Human Genetics  
Polish Academy of Sciences  
*Laboratorium Mutagenazy*  
*Zakład Genetyki Człowieka*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 32, 60-479 Poznań  
phone (061) 22 13 12, 23 30 11 ex. 259  
fax (061) 23 32 55

**research (key words):**

genetics, mutagenesis

**technology and/or know-how available:**

assessment of genotoxicity *in vivo* and *in vitro* (cytogenetics, DNA-repair, DNA-adducts)

**■ Kazimierz L. Wierzchowski**

professor,  
Head of the Department,  
member of the  
Polish Academy of Sciences

Department of Biophysics  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biofizyki*  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 29  
fax (022) 658 46 36

**research (key words):**

molecular biophysics, transcription initiation, recombinant DNA technology, intramolecular electron transfer in proteins

■ **Tadeusz Wilusz**  
professor

Institute of Biochemistry  
University of Wrocław  
*Instytut Biochemii*  
*Uniwersytet Wrocławski*  
ul. Tamka 2, 50-137 Wrocław  
phone (071) 40 26 40  
fax (071) 40 26 08

**research (key words):**

proteolysis, proteolytic enzymes, inhibitors of proteolytic enzymes and their analogues, protein purification

**application of research:**

proteolysis: enzymes and inhibitors, medicin, food industry

**commercial products:**

urease, trypsin inhibitors from soybean, bovine lung and pancreas, bovine trypsin, bovine albumin

■ **Dagmara Grabska-Winnicka**  
Ph.D.,  
President of the "SUPERBOS"

"SUPERBOS" Environment Protection Co.  
*Zakład Ochrony Środowiska "SUPERBOS" sp. z o.o.*  
ul. Nowowiejska 43, 58-500 Jelenia Góra  
phone (075) 260 18, 254 96  
fax (075) 254 96

**research (key words):**

biological sewage treatment

**application of research:**

treatment of municipal and industrial biodegradable wastes designing, construction, consulting and exploitation

**service available:**

SUPERBOS, N-BOS, MICRO-BOS MASTERBOS and ML BOS series of small sewage treatment plants, small biological sewage treatment plant BOS and SUPERBOS, low energy consumption, high BOD reduction, municipal and industrial organic sewage treatment

**commercial products:**

■ **Tomasz Winnicki**  
professor

Department of Environmental Engineering  
Institute of Environmental Protection Engineering  
Technical University of Wrocław  
*Zakład Inżynierii Środowiskowej*  
*Instytut Inżynierii Ochrony Środowiska*  
*Politechnika Wrocławska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 22 98 92  
fax (071) 22 98 92

**research (key words):**

separation, membranes, sorption ion exchange

**application of research:**

water and waste treatment

- **Maria Wiślińska**  
senior specialist,  
ISO/TC 34/SC 3 secretary

**research (key words):**  
**application of research:**  
**service available:**

Department of Standardization of Agriculture Food Products  
Polish Committee for Standardization, Measures and Quality Control  
*Zakład Standaryzacji Rolniczych Produktów Żywnościowych*  
*Polski Komitet Standaryzacji, Miar i Kontroli Jakości*  
ul. Elektoralna 2, 00-139 Warszawa  
phone (022) 27 41 15  
fax (022) 20 83 78

fruits and vegetables products, test methods  
standardization and quality control  
determination of content of compounds and contaminations,  
standardization of analytical methods, exchange of  
information concerning methods of tests of fruits, vegetables  
and products

- **Małgorzata Wiśniewska**  
senior specialist,  
ISO/TC34/SC 3 secretary

**research (key words):**  
**application of research:**  
**service available:**

Department of Standardization of Agriculture Food Products  
Polish Committee for Standardization, Measures and Quality Control  
*Zakład Standaryzacji Rolniczych Produktów Żywnościowych*  
*Polski Komitet Standaryzacji, Miar i Kontroli Jakości*  
ul. Elektoralna 2, 00-139 Warszawa  
phone (022) 27 41 23  
fax (022) 27 41 13

fruits and vegetables products, test methods  
standardization and quality control  
exchange of information concerning methods of tests of fruits  
and vegetables

- **Michał Witt**  
M.D., Ph.D., researcher

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

Institute of Human Genetics  
Polish Academy of Sciences  
*Zakład Genetyki Człowieka*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 32, 60-479 Poznań  
phone (061) 23 30 11, 23 31 87  
fax (061) 23 32 35

human molecular genetics, cystic fibrosis, chromosome Y  
molecular diagnostics  
genetic consulting



- **Barbara Wojciechowska**  
Ph.D., researcher

Institute of Plant Genetics  
Polish Academy of Sciences  
*Instytut Genetyki Roślin*  
*Polska Akademia Nauk*  
ul. Strzeszyńska 34, 60-479 Poznań  
phone (061) 23 35 11,  
fax (061) 22 11 22

**research (key words):**

wide hybridization, embryo culture, experimental plant  
embryology, *Triticale*

**application of research:**

wide hybridization, embryo culture, hybrids production of  
hybrid plants

- **Jacek Wójcik**  
assistant professor

Department of Small Animal Diseases  
National Veterinary Research Institute  
*Zakład Chorób Zwierząt Mięsożernych i Futerkowych*  
*Państwowy Instytut Weterynaryjny*  
al. Partyzantów 57, 24-100 Puławy  
phone (0831) 30 51 ex. 210  
fax (0831) 25 95

**research (key words):**

virus vectors, diagnostic tests, virus infections of animals  
diagnosis and immunoprophylaxis of FeLV, FIV and other  
virus infections of cats

**application of research:**

- **Stanisław Wroński**  
professor

Department of Process Kinetics and Thermodynamics  
Faculty of Chemical and Process Engineering  
Technical University of Warsaw  
*Zakład Kinetyki i Termodynamiki Procesowej*  
*Wydział Inżynierii Chemicznej i Procesowej*  
*Politechnika Warszawska*  
ul. Waryńskiego 1, 00-645 Warszawa  
phone (022) 25 80 68  
fax (022) 25 14 40

**research (key words):**

up- and downstream processing, separation

- **Wiesław Wzorek**  
associate professor

Faculty of Food Technology  
Warsaw Agricultural University  
*Wydział Technologii Żywności*  
*Akademia Rolnicza SGGW*  
ul. Rakowiecka 26/30, 02-528 Warszawa  
phone (022) 49 22 51 ex. 231

**research (key words):**

wine, juice and beer technology

**application of research:**

wine technology

- **Andrzej S. Zabża**  
professor,  
vice-Chairman of  
the Biotechnology Committee  
of the Polish Academy  
of Sciences
- research (key words):** chemistry of natural products, chemical ecology, insect growth regulators, biotransformations, fungi-insect parasites
- application of research:** insect control
- Institute of Organic Chemistry, Biochemistry and Biotechnology  
Technical University of Wrocław  
*Instytut Chemii Organicznej, Biochemii i Biotechnologii  
Politechnika Wroclawska*  
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław  
phone (071) 20 34 46  
fax (071) 22 36 64
- **Włodzimierz Zagórski-Ostoja**  
professor,  
Director of the Institute
- research (key words):** virology, translation, yeast, plant transformation towards virus resistance
- application of research:** agriculture, detection of viruses
- Department of Protein Biosynthesis  
Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Zakład Biosyntezy Białka  
Instytut Biochemii i Biofizyki  
Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 47 24  
fax (022) 658 46 36
- **Małgorzata Zalewska**  
Ph.D., researcher
- research (key words):** *in vitro* mutagenesis, bud techniques and selection
- application of research:** somatic mutagenesis in ornamental plants induced *in vitro* by ionizing radiation, mutation breeding
- Department of Ornamental Plants  
University of Technology and Agriculture  
*Zakład Roślin Ozdobnych  
Akademia Rolniczo-Techniczna*  
ul. Bernardyńska 6, 85-029 Bydgoszcz  
phone (052) 39 10 03  
fax (052) 366 01

■ **Zofia Zarębska**

associate professor,  
Head of the Laboratory

Institute of Biochemistry and Biophysics  
Polish Academy of Sciences  
*Instytut Biochemii i Biofizyki*  
*Polska Akademia Nauk*  
ul. Pawińskiego 5a, 02-106 Warszawa  
phone (022) 658 44 99 ex. 3334  
fax (022) 658 46 36

**research (key words):**

photobiology of psoralens, DNA and lipids photodamage,  
human anti-proteinase inhibitor

**application of research:**

medicine

**commercial products:**

rabbit immune sera, anti-elastase,  
anti-DNA-psoralen-photoadducts

■ **Maria A. Zbieć**

Ph.D., assistant professor,  
Head of the Laboratory

Department of Food Analysis  
Institute of Agro- and Food Biotechnology  
*Zakład Analizy Żywności*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71 ex. 497  
fax (022) 49 04 26

**research (key words):**

analysis of pesticides, GC, HPLC

**application research:**

environment and health protection

■ **Maciej Zenkteler**

professor,  
Head of the Laboratory

Faculty of Biology  
Adam Mickiewicz University  
*Wydział Biologii*  
*Uniwersytet im. Adama Mickiewicza*  
al. Niepodległości 14, 61-713 Poznań  
phone (061) 52 56 03  
fax (061) 53 65 36

**research (key words):**

experimental plant embryology, *in vitro* fertilization, embryo  
culture, micropropagation of woody plants, anther culture

**application of research:**

production of hybrid plants, micropropagation of plants,  
production of haploids

■ **Krystyna Jadwiga Zielińska**

Ph.D., assistant professor

Department of Spirit and Yeast Technology  
Institute of Agro- and Food Biotechnology  
*Zakład Technologii Spirytusu i Drożdży*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 01 71  
fax (022) 49 04 26

**research (key words):**

alcohol fermentation, lactic and propionic acid bacteria

**application of research:**

spirit technology, agrobiotechnology

- **Janusz Zimny**  
assistant professor
- Department of Tissue Culture  
Institute of Plant Breeding and Acclimatization  
*Zakład Kultur Tkankowych*  
*Instytut Hodowli i Aklimatyzacji Roślin*  
Radzików, 05-870 Błonie  
phone (022) 55 26 11, 55 36 11  
fax (022) 55 47 14
- research (key words):** *in vitro* culture, cereals, transformation, somatic embryogenesis
- application of research:** plant breeding
- **Lech Zwierzchowski**  
assistant professor,  
Head of the Department
- Institute of Genetics and Animal Breeding  
Polish Academy of Sciences  
*Instytut Genetyki i Hodowli Zwierząt*  
*Polska Akademia Nauk*  
Jastrzębiec, 05-551 Mroków  
phone (022) 56 05 11 19  
fax (022) 56 04 99
- research (key words):** biochemistry, molecular genetics, gene transfer, transgenic animals
- application of research:** animal biotechnology
- **Regina Sawicka-Żukowska**  
Ph.D., Head of the Laboratory
- Department of Technical Microbiology and Biochemistry  
Institute of Agro- and Food Biotechnology  
*Zakład Mikrobiologii i Biochemii Technicznej*  
*Instytut Biotechnologii Przemysłu Rolno-Spożywczego*  
ul. Rakowiecka 36, 02-532 Warszawa  
phone (022) 49 02 41, 49 01 71  
telex 81 38 45 ips pl
- research (key words):** enzyme preparation, microorganism, culture methods
- application of research:** production of microbial enzyme preparations
- **Krzysztof Żyła**  
Ph.D., researcher
- Department of Food Biotechnology  
University of Agriculture  
*Zakład Biotechnologii Żywności*  
*Akademia Rolnicza*  
ul. 29 Listopada 46, 31-425 Kraków  
phone (012) 11 91 44 ex. 567, 576  
fax (012) 33 62 45  
e-mail: rrzyła@cyf-kr.edu.pl
- research (key words):** phytase, acid phosphatase, enzymic cocktails, inositol phosphates nutrition, dephosphorylation
- application of research:** food processing and animal nutrition
- know-how available:** enzymes in poultry nutrition and food processing, purification of biomolecules