

**Who is who
in
Polish
biotechnology**

**Kto jest kim
w
polskiej
biotechnologii**



Opracowanie:
Krystyna Ludwiczak
Tomasz Twardowski

Z przyjemnością przedstawiamy naszym Czytelnikom kolejną, już trzecią, edycję informatora *Kto-jest-kim w polskiej biotechnologii*. Zawsze staramy się, aby kolejne wydanie było lepsze od poprzedniego. Efekt naszych wysiłków jest jednak uzależniony od solidności odpowiedzi naszych respondentów. W pewnych przypadkach Koleżanki i Koledzy (szczęśliwie nieliczni) nie dysponowali czasem aby dokonać aktualizacji swych danych.

W obecnym wydaniu przedstawiamy po raz pierwszy krajowe firmy działające w obszarze biotechnologii. Jest ich jeszcze niewiele, ale z pewnością liczba ta będzie szybko rosła.

Będziemy zobowiązani za wszelkie uwagi i komentarze.

Autorzy

■ **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) 852 85 03
fax (061) 852 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, ¹H, ¹⁹F and ¹³C NMR

■ **Janina Aleksandrowicz**
associate professor,
Head of Biochemical Laboratory

Department of Sera and Vaccines Evaluation
National Institute of Hygiene
Zakład Kontroli Surowic i Szczepionek
Państwowy Zakład Higieny
ul. Chocimska 24, 00-791 Warszawa
phone (022) 49 74 38 (34) or (022) 49 40 51 ex. 347
fax (022) 49 74 38

research (key words):

biochemical control of biopreparations,
toxicity of aluminium

■ **Tadeusz Antczak**
Ph. D., 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) 631 34 41 or (042) 636 77 04

research (key words):

biocatalysis, biosynthesis of enzymes, lipases, biocatalysis
in nonconventional media, immobilized biocatalysts
food, pharmaceutical and chemical industry

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

computerised spectrophotometry, HPLC, FPLC, image
processing system

service available:

production and application of lipases, biocatalysis in
nonconventional media, HPLC analysis

■ **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) 861 55 11 ex. 33
fax (061) 861 55 96

research (key words):

plant vectors, plant transformation, plant organellar genes,
lupin mtplasmids, nad genes lupin plastid ndhgens

technology and/or know-how available:

cloning, matings, injection transformation research
bacterial strains, vectors

culture collections:

plant vectors: tobacco, potato; F3 transformants

commercial products:

■ **Andrzej Babuchowski**

university professor

Institute of Food Biotechnology
Olsztyn University of Agriculture and Technology
Instytut Biotechnologii Żywności
Akademia Rolniczo-Techniczna
ul. Heweliusza 1, 10-957 Olsztyn-Kortowo
phone (089) 523 36 50
fax (089) 527 39 08
e-mail: babuch@moskit.art.olsztyn.pl

research (key words):

food biotechnology: enzymes, organic acids, microorganism,
fermentation, fermented foods and beverages

application of research:

food technology, environmental protection

service available:

technological consulting and product development

■ **Anna Bach**

professor

Head of the Department

Department of Ornamental Plants
University of Agriculture
Zakład Roślin Ozdobnych
Akademia Rolnicza
Al. 29 Listopada 54, 31-425 Kraków
phone (012) 411 91 43
fax (012) 411-13-22

research (key words):

ornamental plants, tissue culture, regeneration *in vitro*
somatic embryogenesis, callus cultures

application of research:

advanced technology of ornamental plants regeneration
in vitro, somatic embryogenesis

technology and/or know-how available:

regeneration of ornamental plants *in vitro*-advanced
technologies, somatic embryogenesis

service available:

advising in micropropagation cultures, callus cultures

■ **Krzysztof Barbusiński**

Ph.D., researcher

Faculty of Environmental and Energy Engineering
Department of Water and Wastewater Technology
Silesian Technical University
Wydział Inżynierii Środowiska i Energetyki
Zakład Technologii Wody i Ścieków
Politechnika Śląska
ul. Konarskiego 18, 44-101 Gliwice
phone (032) 237 11 94
fax (032) 237 10 47

research (key words):

biological and chemical treatment of municipal and industrial wastewater, nutrient removal systems, activated sludge properties (floc size and structure, specific surface et al.), chemical oxidation, Fentons reaction

application of research:

municipal and industrial wastewater treatment, improvement of efficiency of biological/chemical 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) 659 70 72 ex. 1202
fax (022) 658 46 36
e-mail: jacek@ibb.waw.pl

research (key words):

bacteria, gene expression and regulation, lactic acid bacteria, dairy bacteria, LAB molecular biology

application of research:

microbial genetics, biotechnology

■ **Urszula Bartnik**

Ph.D., Patent Attorney

PolSERVICE sp. z o.o.,
Department of Patent Protection in Chemistry
Electronics and Biotechnology
Wydział Ochrony Patentowej w Chemii,
Elektronice i Biotechnologii
PolSERVICE sp. z o.o.,
ul. Chałubińskiego 8, 00-950 Warszawa
phone (022) 830 19 73
fax (022) 830 00 95 or (022) 830 09 72

research (key words):

biochemistry, biotechnology

application of research:

preparing and filing patent application in the field of biotechnology and patent processing

service available:

patent protection in the field of biotechnology

- **Włodzimierz Bednarski**
professor

Institute of Food Biotechnology
University of Agriculture and Technology
Instytut Biotechnologii Żywności
Akademia Rolniczo-Techniczna
ul. Heweliusza 1, 10-957 Olsztyn-Kortowo
phone (089) 523 36 87

research (key words):

food biotechnology, protein, fat, biosurfactants, enzymes
biosynthesis

application of research:

food industry, dairy products, brewery

- **Maria Bielecka**
associate professor
Head of Department
of Food Microbiology

Institute of Animal Reproduction and Food Research
Polish Academy of Sciences
Instytut Rozrodu Zwierząt i Badań Żywności
Polska Akademia Nauk
ul. Tuwima 10, 10-747 Olsztyn
phone (089) 535 74 27
fax (089) 535 74 21

research (key words):

bifidobacteria, lactic acid bacteria, probiotic properties,
multiplication, preservation, storage application, probiotic
foods

- **Stanisław Bielecki**
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) 631 34 42
fax (042) 631 34 02
e-mail: stanb@ck-sg.p.lodz.pl

research (key words):

enzyme engineering applied biocatalysis, downstream
processing, immobilized biocatalysts, screening of novel
enzymes, enzymatic synthesis of novel oligosaccharides,
biocatalysis in nonconventional media

application of research:

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

service available:

biochemical and immunochemical analysis, consulting
in biotechnological processes

■ **Andrzej Bierzyński**

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 83
 e-mail: ajb@ibbrain.ibb.waw.pl.

research (key words):**service available:****technology and/or know-how available:**

biophysics, protein structure, protein folding
 NMR and CD measurements

NMR, CD, fluorescence spectroscopy, protein engineering,
 gene cloning and expression

■ **Michał Bochenek**

assistant

Department of Animal Reproduction
 National Research Institute for Animal Production
Zakład Rozrodu Zwierząt
Instytut Zootechniki
 32-083 Balice k. Krakowa
 phone (012) 285 67 77 ex. 145
 fax (012) 285 67 33

research (key words):

sperm, flow cytometry fertility, cell sorting, cell cycle

■ **Andrzej Brudzyński**

professor, D.Sc.

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) 606 39 05

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

beer, malt, yeast, fermentation, preservation
 brewing industry

■ **Jolanta Bryjak**

assistant

Department of Bioprocess Engineering
 Institute of Chemical Engineering
 Technical University of Wrocław
Zakład Inżynierii Bioprocessowej
Instytut Inżynierii Chemicznej
Politechnika Wrocławska
 ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
 phone (071) 320 26 77

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

immobilization membrane reactors, batch and continuous
 processes

pharmaceutical and food plants

- **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
- **Anna Budzianowska**
researcher
- Department of Pharmaceutical Botany
University of Medical Sciences in Poznań
Zakład Botaniki Farmaceutycznej
Akademia Medyczna im. K. Marcinkowskiego
ul. Św. Marii Magdaleny 14, 61-861 Poznań
phone (061) 852 90 57
- research (key words):** plant tissue culture, biologically active secondary metabolites, medicinal plants, phytochemistry
- **Jaromir Budzianowski**
professor
- Department of Pharmaceutical Botany
University of Medical Sciences in Poznań
Zakład Botaniki Farmaceutycznej
Akademia Medyczna im. K. Marcinkowskiego
ul. Św. Marii Magdaleny 14, 61-861 Poznań
phone (061) 852 90 57
- research (key words):** phytochemistry, structure elucidation, medicinal plants, chemotaxonomy, pharmacologically active compounds
- application of research:** production of natural drugs
- **Anna Bugajewska**
Ph.D., researcher
- Department of Food Biotechnology
Warsaw Agricultural University
Katedra Biotechnologii Żywności
Szkoła Główna Gospodarstwa Wiejskiego (SGGW)
ul. Rakowiecka 26/30, 02-528 Warszawa
phone (022) 49 22 51 ex. 2231
fax (022) 49 13 75
- research (key words):** wine technology, food microbiology, genetic modification of industrial yeasts
- application of research:** wine fermentation technology

■ **Grzegorz D. Bujacz**
Ph.D., researcher
Head of X-ray Analysis
Laboratory

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) 631 34 31 or (042) 636 77 04
e-mail: gdbujacz@ck-sg.p.lodz.pl

research (key words):

X-ray analysis, protein crystallography, protein crystallization
protein structures, structural based drug design, drug
structures, retroviral enzymes, retroviral enzymes inhibitors
medicine, pharmacology, pharmaceutical industry
X-ray diffractometer, graphic station, crystallization
equipment

**application of research:
service available:**

■ **Krystyna Cedzyńska**
professor

Institute of General Food Chemistry
Technical University of Łódź
Instytut Podstaw Chemii Żywności
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 631 34 28

research (key words):

waste destruction

■ **Piotr Ceglowski**
associate professor
Research Director
Head of the Laboratory

Institute of Bioorganic Chemistry
Polish Academy of Sciences
Instytut Biochemii i Biofizyki
Polska Akademia Nauk
ul. Pawińskiego 5a, 02-106 Warszawa
phone (022) 658 47 23
fax (022) 658 46 36

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

gram-positive bacteria, plasmids, recombinant DNA
microbial biotechnology

■ **Jerzy Chełkowski**
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) 822 11 12
fax (061) 822 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:

prevention methods of several grain contamination with
mycotoxins

- **Aleksander Chmiel**
 professor
 Head of the Laboratory
 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) 678 46 43 or (042) 678 48 33 ex. 218
 fax (042) 678 83 92
- research (key words):** microbial biotechnology, plant cell biotechnology, cell immobilization, biosynthesis of pharmacologically active compounds; microbial cell immobilizations, biotransformations
- service available:** bioreactor for hairy roots
- application of research:** pharmaceutical industry
- **Marta Chrobocińska**
 assistant professor
 National Veterinary Research Institute
Państwowy Instytut Weterynaryjny
 al. Partyzantów 57, 24-100 Puławy
 phone (081) 886 30 51 ex. 208
 fax (081) 886 25 95
- research (key words):** viral infections of carnivores and rabbits, diagnostic methods
- application of research:** diagnosis and eradication of virus diseases
- **Danuta Ciechańska**
 Ph.D., 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) 637 65 10 ex. 246
 fax (042) 637 62 14
- research (key words):** biomodification and biotransformation of cellulose pulps, biodegradation and biosynthesis of polymer materials
- application of research:** chemical fibres, environmental protection, medicine
- **Barbara Wereszczyńska-Cisło**
 assistant professor
 Department of Scientific and Technological Information
 Institute of Agro- and Food Biotechnology
*Zakład Informacji Naukowo-Technicznej
 Instytut Biotechnologii Przemysłu Rolno-Spożywczego*
 ul. Rakowiecka 36, 02-532 Warszawa
 phone (022) 49 01 71 or (022) 606 36 42
 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 technology, research and technology, publishing
- service available:** SDI, retrospective searching, food annotated bibliographies

■ **Danuta Czajkowska**

associate professor

Department of Technical Microbiology and Biochemistry
 Institute of Agro- and Food Biotechnology
Zakład Mikrobiologii Technicznej i Biochemii
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
 ul. Rakowiecka 36, 02-532 Warszawa
 phone (022) 606 36 84
 fax (022) 49 04 26 or (022) 49 04 28

research (key words):

fungi, biomass and enzymes biosynthesis, by-product utilization, heavy metals biosorption, microbial diagnostic industrial microbiology, food microbiology

application of research:■ **Andrzej Czaplicki**

assistant professor

Department of Plant Tissue Culture
 Plant Breeding and Acclimatization Institute
Zakład Roślinnych Kultur Tkankowych
Instytut Hodowli i Aklimatyzacji Roślin
 Radzików, 05-870 Błonie
 phone (022) 725 26 11
 fax (022) 725 47 14

research (key words):

wheat, triticum, androgenesis

application of research:

plant breeding and genetics

■ **Ludwik Czerwiecki**

associate professor

Department of Food Analysis
 Institute of Agricultural and Food Biotechnology
Zakład Analizy Żywności
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
 ul. Rakowiecka 36, 02-532 Warszawa
 phone (022) 606 38 71 or (022) 49 01 71 ex. 471
 fax (022) 49 04 26
 e-mail: czerwiecki@ibprs.waw.pl

research (key words):

mycotoxins, HPLC, TLC, HPLTC, food additives, vitamins development of analytical methods for determination of some food contaminants, eg. mycotoxins in food and feed and in agricultural raw materials; determination of these contaminants in food; development of analytical methods for determination of food additives, vitamins, some food constituents and their analysis in food; environment protection

application of research:■ **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
 Head of the Institute
- Department of Industrial Microbiology
 Institute of Microbiology and Immunology
 University of Łódź
Zakład Mikrobiologii Przemysłowej
Instytut Mikrobiologii i Immunologii
Uniwersytet Łódzki
 ul. Banacha 12/16, 90-237 Łódź
 phone (042) 635 44 65 or (042) 635 45 00
 fax (042) 678 49 32
 e-mail: jdlugo@biol.uni.lodz.pl
- research (key words):** steroid biotransformation, xenobiotic degradation, cell immobilization, heavy metals accumulation
- application of research:** physiology of industrial microorganisms, industrial microbiology, environmental biotechnology
- **Teresa Doroszewska**
 Ph.D.
- Department of Breeding and production of Special Crops
 Institute of Soil Science and Plant Cultivation
Zakład Hodowli i Uprawy Roślin Specjalnych
Instytut Uprawy, Nawożenia i Gleboznawstwa
 ul. Czartoryskich 8, 24-100 Puławy
 phone (081) 886 34 21 ex. 216
 fax (081) 886 45 47
- research (key words):** tobacco, cytogenetics, tissue and cell culture, transgenic plants
- application of research:** breeding for resistance and quality
- **Ewa Żymańczyk-Duda**
 Ph.D.
- 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) 320 34 58
- research (key words):** biocatalysis, biotransformation
- application of research:** agriculture, pharmacology
- **Piotr Dullin**
 Ph.D., researcher
- Institute of Biochemistry and Biotechnology
 Agricultural University
Katedra Biochemii i Biotechnologii
Akademia Rolnicza
 ul. Wołyńska 35, 60-637 Poznań
 phone (061) 848 72 07
 fax (061) 848 72 11
 e-mail: pdul@au.poznan.pl
- research (key words):** regulation of transcription in higher plants, transcription factors
- application of research:** agriculture

Halina Ekiert

Ph.D., assistant professor

Chair and Department of Pharmaceutical Botany
Collegium Medicum, Jagiellonian University
Katedra i Zakład Botaniki Farmaceutycznej
Collegium Medicum, Uniwersytet Jagielloński
ul. Medyczna 9, 30-688 Kraków
phone (012) 657 00 22
fax (012) 657 02 62

research (key words):

plant tissue cultures, biosynthesis of biologically
active metabolites

application of research:

pharmacy

Jan Fiedurek

associate professor

Department of Industrial Microbiology
Institute of Microbiology and Biotechnology
Maria Curie-Skłodowska University
Zakład Mikrobiologii Przemysłowej
Instytut Mikrobiologii i Biotechnologii
Uniwersytet Marii Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 33
fax (081) 537 51 02

research (key words):

strain improvement, enzyme biosynthesis, microscopic fungi,
cell immobilization

application of research:

industrial microbiology

Magdalena Fikus

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 44 99 ex. 2352
fax (022) 658 46 36 and (022) 39 12 16 23
e-mail: magdaf@ibb.waw.pl

research (key words):

gene cloning, recombinant proteins

Marcin Filipecki

senior research associate

Department of Plant Genetics, Breeding
and Biotechnology
Warsaw Agricultural University
Katedra Genetyki, Hodowli Roślin
i Biotechnologii
Akademia Rolnicza
ul. Nowoursynowska 166, 02-787 Warszawa
phone (022) 843 09 82 or (022) 843 90 41 ex. 1668
fax (022) 843 09 82

research (key words):

plant molecular biology, plant embryogenesis

- **Mirosława Furmanowa**
professor

Department of Biology and Pharmaceutical Botany
Faculty of Pharmacy
The Medical University of Warsaw
*Katedra i Zakład Biologii i Botaniki Farmaceutycznej
Akademia Medyczna*
ul. Banacha 1, 02-097 Warszawa
phone (022) 823 59 84
fax (022) 823 14 87

research (key words):

medicinal plants biotechnology: micropropagation,
secondary metabolites, hairy roots culture, plant
tissue culture, suspension culture, callus

application of research:

medicinal plant, drug production of natural origin

- **Antoni J. Furowicz**
professor, D.Sc.

Department of Immunology and Microbiology
Agricultural University of Szczecin
*Katedra Immunologii i Mikrobiologii
Akademia Rolnicza*
ul. Judyma 24, 71-460 Szczecin
phone (091) 454 15 21 ex. 384
fax (091) 454 16 42

research (key words):

etiopathogenesis, immunotherapy, immunoprophylaxis
of animal diseases, veterinary aspects of immunomodulation,
molecular aspects of diagnosis of animal infections diseases
(PCR)

application of research:

molecular aspects of diagnosis of animal diseases

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

hybridization of bacterial DNA, polymerase chain reaction

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

Department of Animal Reproduction
National Research Institute of Animal Production
*Zakład Rozrodu Zwierząt
Instytut Zootechniki*
32-083 Balice k. Krakowa
phone (012) 285 67 11 to 16 ex. 457
fax (012) 285 67 33

research (key words):

cryopreservation, oocytes, embryos, *in vitro* culture,
transplantation, transgenic animals

application of research:

farm animals breeding

■ **Edward Galas**
professor

Institute of Technical Biochemistry
Technical University of Łódź
Instytut Biochemii Technicznej
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 636 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 α -amylase, amylases, lipases, pullulanase, keratinase, serine, proteinase, α -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. Weigla 12, 53-114 Wrocław
phone (071) 73 22 74 or (071) 73 23 16 ex. 212
fax (071) 73 25 87

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:
commercial products:
culture collections available:**

analysis of glycoconjugates
polysaccharide conjugate vaccine, anti-meningitis
1) bacteriophages,
2) bacteria (Polish Collection of Microorganism)

■ **Stanisław W. Gawroński**
professor

Department of Basic Natural Sciences in Horticulture
Warsaw Agricultural University
Zakład Przyrodniczych Podstaw Ogrodnictwa
Akademia Rolnicza
ul. Nowoursynowska 166, 02-787 Warszawa
phone (022) 843 90 41 ex. 1091, 1791
fax (022) 843 75 07

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

GMO-herbicides resistance, phytoremediation
removing of Pb from the soil

■ **Małgorzata Gniewosz**

Ph.D., researcher

Department of Food Biotechnology
Warsaw Agricultural University
Katedra Biotechnologii Żywności
Szkoła Główna Gospodarstwa Wiejskiego (SGGW)
ul. Rakowiecka 26/30, 02-528 Warszawa
phone (022) 49 22 51 ex. 2164
fax (022) 49 13 75

research (key words):

pullulan, *Aureobasidium pullulans*, food microbiology, electrofusion industrial yeasts

■ **Barbara Golińska**

assistant professor

Institute of Biochemistry and Biotechnology
Agricultural University
Katedra Biochemii i Biotechnologii
Akademia Rolnicza
ul. Wołyńska 35, 60-637 Poznań
phone (061) 848 72 10
fax (061) 848 72 11

research (key words):

symbiotic nitrogen fixation, plant-microbe interactions, plant pathogenesis

application of research:

agriculture, food technology

■ **Tadeusz Gołębiewski**

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 01 71 ex. 305 or (022) 606 39 05
fax (022) 49 04 26

research (key words):

fermentation and biosynthesis technology, brewing industry, organization of research

■ **Joanna Surmacz-Górska**

Ph.D., researcher

Department of Environmental Biotechnology
Faculty of Environmental and Energy Engineering
Silesian Technical University
Katedra Biotechnologii Środowiskowej
Wydział Inżynierii Środowiska i Energetyki
Politechnika Śląska
ul. Akademicka 2, 44-101 Gliwice
phone (032) 237 29 49
fax (032) 237 29 46
e-mail: jsgorska@zeus.polsl.gliwice.pl

research (key words):

environmental biotechnology, environmental protection, wastewater treatment

application of research:

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

- **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) 848 73 54
fax (061) 848 71 46
e-mail: grajek@owl.au.poznan.pl
- research (key words):** industrial microbiology, cell cultures, microbial biosynthesis process, lactic acid bacteria, propionic acid bacteria
- application of research:** food industry
- service available:** microbiological analysis, technology design, consulting
- **Nikodem Grankowski**
professor
Director of the Institute
- Department of Molecular Biology
Institute of Microbiology and Biotechnology
M. Curie-Skłodowska University
Zakład Biologii Molekularnej
Instytut Mikrobiologii i Biotechnologii
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 50 or (081) 537 59 07
fax (081) 537 59 07
- research (key words):** enzymology, protein phosphorylation, protein kinases translation
- application of research:** molecular biology, biotechnology
- service available:** preparation of protein kinases, antibodies against protein kinases
- **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) 606 36 00
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) 681 97 44
fax (042) 681 54 83
- research (key words):** protein sequencing, amino acids analysis, stereochemistry of DNA analogs, DNA cloning
- application of research:** structure of protein, DNA/RNA modification

- **Agata Witkowska-Gwiazdowska**
assistant professor
Department of Technical Microbiology and Biochemistry
Institute of Agro- and Food Biotechnology
Zakład Mikrobiologii Technicznej i Biochemii
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 606 36 38
fax (022) 49 04 26 or (022) 49 04 28
- research (key words):** fungi, enzymes biosynthesis, improvement of strains, storage of strains, microbial diagnostics
- application of research:** industrial microbiology, food microbiology
- **Hanna Haldas**
Ph.D., researcher
Research Institute of Vegetable Crops
Instytut Warzywnictwa
ul. Konstytucji 3 Maja 1/3, 96-100 Skierniewice
phone (046) 833 41 93
fax (046) 833 31 86
- research (key words):** biotechnology, molecular markers, breeding, cytology, cytogenetics
- application of research:** breeding for resistance to disease, cultivar identification
- **Hanna Haber**
Ph.D., researcher
Department of Food Biotechnology
Warsaw Agricultural University
Katedra Biotechnologii Żywności
Szkola Główna Gospodarstwa Wiejskiego (SGGW)
ul. Rakowiecka 26/30, 02-528 Warszawa
phone (022) 49 22 51 ex. 2231
fax (022) 49 13 75
- research (key words):** food microbiology, lactic and propionic fermentation — mixed culture, genetic modification of industrial yeasts
- **Jacek Hennig**
associate 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 70 72 ex. 5721
fax (022) 658 46 36
- research (key words):** plant molecular biology, plant microbe — molecular interaction

■ **Waleria Hryniewicz**

professor, Director

Sera and Vaccines Central Research Laboratory
Centralne Laboratorium Surowic i Szczepionek
 ul. Chełmska 30/34, 00-725 Warszawa
 phone (022) 41 33 67 or (022) 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) 631 34 55
 telex (042) 636 74 88

research (key words):

heat and mass transfer in food technology

application of research:

thermal sterilization of media

service available:

thermal sterilization of liquids and suspensions

- **Zdzisław Ilczuk**
professor
Head of the Department
- Department of Industrial Microbiology
Institute of Microbiology and Biotechnology
M. Curie-Skłodowska University
Zakład Mikrobiologii Przemysłowej
Instytut Mikrobiologii i Biotechnologii
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 58
fax (081) 537 59 59
- research (key words):** citric acid fermentation, enzyme biosynthesis, fungal pectinases, glucoamylase, glucose oxidase
application of research: industrial microbiology
- **Małgorzata Korzycka-Iwanow**
professor of law
- Department, Faculty of Law and Administration
Warsaw University
Wydział Prawa i Administracji
Uniwersytet Warszawski
ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa
phone (022) 620 03 81 ex. 462 or (022) 826 63 82
fax (022) 826 63 82
- research (key words):** law, biotechnology, intellectual property rights, agriculture, agricultural law
- **Teresa Jakubowicz**
professor
- Department of Molecular Biology
Institute of Microbiology and Biotechnology
M. Curie-Skłodowska University
Zakład Biologii Molekularnej
Instytut Mikrobiologii i Biotechnologii
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 56
fax (081) 537 59 07
- 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) 631 34 39 or (042) 636 77 04
- research (key words):** bacterial α -amylases, microbial enzymes biosynthesis
application of research: food industry, textile industry
commercial product: α -amylase „AMYLOGAL”
service available: consulting in enzymes production

■ **Wiesław I. Jankowski**

assistant professor

Department of Lipids Biochemistry
Institute of Biochemistry and Biophysics
Polish Academy of Sciences
Zakład Biochemii Lipidów
Instytut Biochemii i Biofizyki
Polska Akademia Nauk
ul. Pawińskiego 5A, 02-106 Warszawa
phone (022) 659 70 72 ex. 3500
fax (022) 39 12 16 23
e-mail: Jankowski@ibb.waw.pl

research (key words):

biochemistry and biotechnology of lipids
and other natural compounds

application of research:

immunostimulants

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

extraction, chromatographic purification, phosphorylation

■ **Hanna Jańska**

associate professor

Institute of Biochemistry and Molecular Biology
University of Wrocław
Instytut Biochemii i Biologii Molekularnej
Uniwersytet Wrocławski
ul. Tanka 2, 50-137 Wrocław
phone (071) 40 23 93
fax (071) 40 26 08

research (key words):

plant mitochondrial genome — organisation, recombination,
polymorphism, regulation of expression, nuclear —
cytoplasmic interaction

■ **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) 231 08 11
fax (032) 231 03 18
e-mail: a.jarzeb@iich.gliwice.pl

research (key words):

immobilization, physiological analysis of complex
fermentation processes

application of research:

bioprocess engineering, separation modeling, bioseparation,
immobilization of enzymes

- **Lucjan Jedrychowski**
Ph.D.
Head of the Department
- Institute of Animal Reproduction and Food Research
Polish Academy of Sciences
Instytut Rozrodu Zwierząt i Badań Żywności
Polska Akademia Nauk
ul. Tuwima 10, 10-747 Olsztyn
phone (089) 523 46 88
fax (089) 523 78 24
- research (key words):** food enzymes, immunometric methods food allergens, enzyme technologies
- application of research:** biosynthesis and biotechnology of microbiological proteolytic and coagulating enzymes
- technology and/or know-how available:** obtaining and application of proteolytic — coagulating preparation from bovine abomasa (filtration, microfiltration, ultrafiltration, concentration)
- **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) 379 10 03
fax (052) 373 66 01
- research (key words):** *in vitro* mutagenesis, adventitious bud techniques, radiosensitivity of plants
- application of research:** mutation breeding
- **Jacek Tomasz Jura**
Ph.D., researcher
- Department of Animal Breeding
National Research Institute of Animal Production
Zakład Hodowli Zwierząt
Instytut Zootechniki
32-083 Balice k. Krakowa
phone (012) 285 67 11 to 15 ex. 457
fax (012) 285 67 33
- research (key words):** transgenic animals, *in vitro* culture
- **Danuta Juszcakiewicz**
Ph.D., assistant professor
- Department of Technical Microbiology and Biochemistry
Institute of Agro- and Food Biotechnology
Zakład Mikrobiologii Technicznej i Biochemii
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 606 36 80
fax (022) 49 04 26
- research (key words):** strain improvement and preservation, biosynthesis, solid state fermentation, microscopic fungi, yeast

- **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 Wrocławska
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
phone (071) 320 34 58
e-mail: kafarski@kchf.ch.pwr.wroc.pl
- research (key words):** drug and herbicide design and synthesis, phosphono peptide synthesis, biodegradation of organophosphorous compounds
- **Stanisław Kamiński**
researcher
- Department of Animal Genetics
University of Agriculture and Technology
Katedra Genetyki Zwierząt
Akademia Rolniczo-Techniczna
ul. Oczapowskiego 5, 10-718 Olsztyn-Kortowo
phone (089) 523 47 14
fax (089) 523 47 14
- research (key words):** bovine milk protein genes
application of research: selection of favourable genes for breeding purposes
- **Zofia Kańska**
professor
Head of the Department
- Department of Environmental Biology
Institute of Environmental Engineering Systems
Warsaw University of Technology
Zakład Biologii Środowiska
Instytut Systemów Inżynierii Środowiska
Politechnika Warszawska
ul. Nowowiejska 20, 00-653 Warszawa
phone (022) 621 29 79
fax (022) 625 43 05
- research (key words):** environmental biotechnology, environmental toxicology,
biology of wastewater treatment
application of research: biodegradation and toxicology of pollution
- **Krzysztof Kasprzak**
associate professor
expert of the Ministry
of Environment Protection,
Natural Resources and Forestry
expert of the Polish Association
of Sanitary Engineers
and Technicians
- Polish Association of Sanitary Engineers and Technicians
Poznań Branch
Polskie Zrzeszenie 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, waste management and spatial
planning in communes

- **Lucyna Kańska**
assistant professor

Department of Animal Reproduction
National Research Institute of Animal Production
Zakład Rozrodu Zwierząt
Instytut Zootechniki
32-083 Balice k. Krakowa
phone (012) 285 67 14 ex. 370, 457
fax (012) 285 67 33

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 on mammalian gametes and embryos

application of research:

farm animals breeding

- **Ewa Kępczyńska**
associate professor

Department of Plant Physiology
University of Szczecin
Zakład Fizjologii Roślin
Uniwersytet Szczeciński
ul. Felczaka 3a, 71-412 Szczecin
phone (091) 423 29 72
fax (091) 423 29 72

research (key words):

plant tissue culture, somatic embryogenesis, transformation, physiology of fungal pathogens

application of research:

agriculture, plant protection

- **Jan Kępczyński**
professor

Department of Plant Physiology
University of Szczecin
Zakład Fizjologii Roślin
Uniwersytet Szczeciński
ul. Felczaka 3a, 71-412 Szczecin
phone (091) 423 29 72
fax (091) 423 29 72

research (key words):

seed physiology, plant growth regulators, somatic embryogenesis

application of research:

seed technology

- **Wanda Kisiel**
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) 423 70 87
fax (012) 637 45 00

research (key words):

medicinal plants, plant tissue culture, isolation and structure elucidation of bioactive secondary metabolites

application of research:

phytotherapy and plant chemotaxonomy

■ **Marian Kochman**

professor
Head of the Institute

Institute of Organic Chemistry, Biochemistry
and Biotechnology
Technical University of Wrocław
*Institut Chemii Organicznej, Biochemii
i Biotechnologii*
Politechnika Wroclawska
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
phone (071) 320 34 73
fax (071) 328 40 64

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

biochemistry (molecular biology), enzymology
control of insects development
gene cloning, protein expression and purification,
DNA sequencing, procedures for 11 new enzymes and
hormone binding proteins
IHBP, EcR, anti-IHBP, IH-esterase, aldolase

■ **Bożena Natalia Kolarz**

professor

Department of Polymer Physicochemistry
Institute of Organic and Polymer Technology
Technical University of Wrocław
Zakład Fizykochemii Polimerów
Institut Technologii Organicznej i Tworzyw Sztucznych
Politechnika Wroclawska
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
phone (071) 320 38 26
fax (071) 320 36 78
e-mail: kolarz@novell.itn.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 — carrier for immobilization

■ **Jacek Kozdrój**

Ph.D.

Department of Microbiology
University of Silesia
Katedra Mikrobiologii
Uniwersytet Śląski
ul. Jagiellońska 28, 40-032 Katowice
phone (032) 255 12 60 ex. 359
e-mail: kozdroj@us.edu.pl

research (key words):

soil biotechnology, molecular microbial ecology,
bioremediation, bioaugmentation, microbial diversity

■ **Jacek Koziol**
professor

Department of Instrumental Analysis
Poznań University of Economics
Katedra Analizy Instrumentalnej
Akademia Ekonomiczna
al. Niepodległości 10, 60-967 Poznań
phone (061) 869 92 61
fax (061) 854 39 93
e-mail: koziol1@novci1.ae.poznan.pl

research (key words):

photochemistry, instrumental analysis

■ **Andrzej Krakowiak**
associate professor
Head of the Department

Department of Industrial Microbiology and Biochemistry
Institute of Agricultural and Food Biotechnology
Zakład Mikrobiologii Technicznej i Biochemii
Instytut Biotechnologii Przemysłu
Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa 12
phone (022) 606 36 74
fax (022) 49 04 26 or (022) 49 04 28

research (key words):

fermentation and biosynthesis technology,
microbial enzymes production

application of research:

industrial microbiology

■ **Alina Krystynowicz**
Ph.D., 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) 631 34 41 or (042) 636 77 04

research (key words):

amylase, lipase, synthesis and application of microbial
enzymes, bacterial cellulose biosynthesis

application of research:

food industry, textile and paper industry, medicine

commercial product:

bacterial α -amylase „AMYLOGAL”

service available:

consulting in enzymes technology and some microbial
polysaccharides

■ **Jan Krzymański**
professor
Head of the Department

Plant Breeding and Acclimatization Institute
Instytut Hodowli i Aklimatyzacji Roślin
ul. Strzeszyńska 36, 60-479 Poznań
phone (061) 823 35 31 or (061) 823 32 51
fax (061) 823 38 71

research (key words):

oil crops genetics breeding biochemistry

application of research:

improved cultivars of oil crops

- **Danuta Kucharska**
researcher
- Research Institute of Pomology and Floriculture
Instytut Sadownictwa i Kwiaciarnictwa
96-100 Skierniewice, PO Box 105
phone (046) 833 20 91
fax (046) 833 20 88
- research (key words):** embryo rescue, micropropagation, regeneration,
Lilium, Ribes
- application of research:** plant breeding
-
- **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) 411 91 44 ex. 576, 568, 567
fax (012) 411 77 53
- research (key words):** amylases, acid phosphatases, enzymes in food processing
- application of research:** poultry nutrition, food processing
-
- **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) 347 15 09
fax (058) 347 24 13
- research (key words):** biological removal of phosphates, nitrates, ammonium
- application of research:** wastewater treatment, technology of wastewater, removal
of nutrients from wastewater
-
- **Jacek Kuźmak**
Ph.D.
Head of the Department
- Department of Biochemistry
National Veterinary Research Institute
Zakład Biochemii
Państwowy Instytut Weterynaryjny
al. Partyzantów 57, 24-100 Puławy
phone (081) 886 30 51 ex. 169
fax (081) 886 25 95
- research (key words):** retroviruses, diagnosis, molecular diagnosis
- application of research:** ELISA, PCR, western blot — diagnosis
- technology and/or know-how available:** preparation of antigens for diagnostic test
- service available:** immunization of laboratory animals
- culture collections available:** FLK-BLV, CC81, CT2Th, FBL-BIV
- commercial products:** viral protein of BLV, recombinat protein p24 BLV

■ **Elżbieta Kuźniak**

Ph.D.

Department of Plant Physiology and Biochemistry
University of Łódź
Katedra Fizjologii i Biochemii Roślin
Uniwersytet Łódzki
ul. Banacha 12/16, 90-237 Łódź
phone (042) 635 44 14
fax (042) 635 44 23

research (key words):

plant defence reactions, systemic acquired resistance, plant *in vitro* cultures

■ **Jacek Kuźnicki**

professor

Head of the Department

Vice-President of Biotechnology

Committee

Department of Molecular and Cell Neurobiology
Nencki Institute of Experimental Biology
Zakład Neurobiologii Komórkowej i Molekularnej
Instytut Biologii Eksperymentalnej im. Nenckiego
ul. Pasteura 3, 02-093 Warszawa
phone (022) 659 31 43
fax (022) 822 53 42

research (key words):

protein biochemistry, Ca²⁺ homeostasis, gene regulation

application of research:

antibodies for diagnostic, vectors for gene therapy

■ **Ewa Kwapisz**

Ph.D., 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) 631 34 39 or (042) 636 77 04

research (key words):

biodegradation of hydrocarbons, industrial strains improvement, enzymes microbial synthesis, citric acid fermentation

application of research:

environmental protection, food industry

service available:

bioremediation of polluted areas with hydrocarbons derivatives, production of enzymes and organic acids

■ **Stanisław Ledakowicz**

professor,

Head of the Department

Department of Bioprocess Engineering
Faculty of Process and Environmental Engineering
Technical University of Łódź
Katedra Inżynierii Bioprocessowej
Wydział Inżynierii Procesowej i Ochrony Środowiska
Politechnika Łódzka
ul. Wólczańska 213, 90-924 Łódź
phone (042) 631 37 15
fax (042) 636 56 63 or (042) 631 37 38

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) 852 85 03(04) or (061) 852 89 19
fax (061) 852 05 32
e-mail: legocki@ibch.poznan.pl

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

plant molecular biology
plant transformation

culture collections available:

plant transformation and genetic engineering, DNA
recombinant technology
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) 823 35 11
fax (061) 823 36 71
e-mail: pleh@igr.poznan.pl

research (key words):

plant molecular biology, recombinant DNA technology,
transgenic plants, virus resistance, pathogen-mediated
protection, gene silencing
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 Wroclawska
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
phone (071) 320 34 58

research (key words):

biocatalysis, enzyme inhibitors design,
biotransformations

- **Jacek Leman**
professor

Chair of Food Biotechnology
Institute of Food Biotechnology
Faculty of Food Science
University of Agriculture and Technology
Katedra Biotechnologii Żywności
Instytut Biotechnologii Żywności
Wydział Nauki o Żywności
Akademia Rolniczo-Techniczna
10-718 Olsztyn
phone (089) 523 32 33 or (089) 523 47 74
fax (089) 527 39 08

research (key words):

microbial lipids, agricultural waste, lipases, bioactive proteins, 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 M. Curie-Skłodowskiej
pl. M. Curie-Skłodowskiej 3, 20-031 Lublin
phone (081) 537 56 65; (081) 537 57 37 or (081) 537 57 22
fax (081) 537 51 02 or (081) 533 36 69
e-mail: leon@hermes.umsc.lublin.pl

research (key words):

ligninocellulose, biotransformation, higher fungi, edible fungi, fungal enzymes, immobilization, phenolics, biomass

application of research:

biotechnology of fungal enzymes, production of edible fungal fruit bodies and fungal biomass for feeding and nutrition, production of enzymes

- **Zbigniew Leśnikowski**
associate professor

Center of Microbiology and Virology
Polish Academy of Sciences
Centrum Wirusologii i Mikrobiologii
Polska Akademia Nauk
ul. Lodowa 106, 93-232 Łódź
phone (042) 649 16 97
fax (042) 649 16 33

research (key words):

chemistry of nucleic acids, molecular diagnostics

application of research:

diagnostics

■ **Jerzy Lewosz**

associate professor
Head of the Biochemical
Laboratory

Plant Breeding and Acclimatization Institute
Instytut Hodowli i Aklimatyzacji Roslin
76-009 Bonin k. Koszalin
phone (094) 342 30 31
fax (094) 342 70 28
e-mail: iziem@man.koszalin.pl

research (key words):

potato, resistance to pests, pectic enzymes, protease
inhibitors, biocontrol
plant breeding and protection

application of research:

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

micropropagation, pathogen diagnostics
chemotaxonomic identification of cultivars
potato and pathogenic microorganisms

service available:

culture collections:

■ **Zdzisława Libudziś**

professor

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) 631 34 79 or (042) 636 36 39 or (042) 636 59 76
fax (042) 88 42 20

research (key words):

lactic acid bacteria, metabolism, genetics

■ **Zbigniew Lorkiewicz**

professor
Member of the Polish
Academy of Sciences

Department of General Microbiology
M. Curie-Skłodowska University
Zakład Mikrobiologii Ogólnej
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 68

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

■ **Jan K. Ludwicki**

professor
Director for Scientific Affairs

Department of Environmental Toxicology
National Institute of Hygiene
Zakład Toksykologii Środowiskowej
Państwowy Zakład Higieny
ul. Chocimska 24, 00-791 Warszawa
phone (022) 49 70 84 or (022) 49 40 51 to 57
fax (022) 49 74 41

research (key words):

environmental toxicology, food toxicology

- **Jerzy Lutomski**
 professor, Ph.D., dr h.c.,
 Director of the Institute
 editor „Herba Polonica”
 Institute of Medicinal Plants
Institut Roślin i Przetworów Zielarskich
 ul. Libelta 27, 61-707 Poznań
 phone (061) 852 56 16 or (061) 852 40 03
 fax (061) 852 74 63
- research (key words):** plant tissue culture as a source of natural biologically active compounds
- application of research:** plant breeding
- **Sylvia Łabużek**
 associate professor
 Head of the Department
 Department of Biochemistry
 University of Silesia
Katedra Biochemii
Uniwersytet Śląski
 ul. Jagiellońska 28, 40-032 Katowice
 phone (032) 255 20 98
 fax (032) 255 58 73
- research (key words):** biodegradation of xenobiotics, synthesis and biodegradation of polymers
- application of research:** biological plants
- technology and/or know-how available:** technological projects of purification of waters
- **Maria Łebkowska**
 D.Sc., Ph.D., professor
 Department of Environmental Biology
 Institute of Environmental Engineering Systems
 Technical University of Warsaw
Zakład Biologii Środowiska
Institut Systemów Inżynierii Środowiska
Politechnika Warszawska
 ul. Nowowiejska 20, 00-653 Warszawa
 phone (022) 621 29 79
 fax (022) 625 43 05
- research (key words):** environmental biotechnology, biodegradation and toxicology of pollutants, biotreatment systems, environmental toxicology
- application of research:** bioremediation, biotreatment processes, toxicological testing, biodegradation tests
- culture collections available:** bacteria degrading petroleum compounds
- **Jerzy Łobarzewski**
 professor
 Department of Biochemistry
 M. Curie-Skłodowska University
Zakład Biochemii
Uniwersytet M. Curie-Skłodowskiej
 pl. M. Curie-Skłodowskiej 3, 20-031 Lublin
 phone (081) 537 56 66
- research (key words):** plant biochemistry, immobilization of proteins, affinity chromatography, enzymology, peroxidase, lignin degradation
- application of research:** pharmaceutical industry, food industry

■ **Ewa Łojkowska**
professor

Laboratory of Plant Pathology
Department of Biotechnology
University of Gdańsk and Medical University of Gdańsk
Pracownia Fitopatologii
Katedra Biotechnologii
Uniwersytet Gdański i Akademia Medyczna
ul. Kładki 24, 80-822 Gdańsk
phone (058) 301 22 41 ex. 345 or (058) 301 28 07
fax (058) 301 28 07

research (key words):

1) molecular plant-pathogen interaction — regulation of bacterial pectinases expression
2) molecular diagnostics of plant pathogenic bacteria
3) secondary metabolites in *in vitro* cultures: plantlets, callus, cell suspension, hairy roots

■ **Anna Grabińska-Łoniewska**
D.Sc., Ph.D., assistant professor

Department of Environmental Engineering Systems
Technical University of Warsaw
Instytut Systemów Inżynierii Środowiska
Politechnika Warszawska
ul. Nowowiejska 20, 00-653 Warszawa
phone (022) 621 36 56 or (022) 660 78 57
fax (02) 625 43 05

research (key words):

environmental microbiology, environmental biotechnology (removal of nitrates from waters and wastewaters, removal of iron and manganese from groundwaters, microscopic fungi in wastewaters treatment process, aerobic (composting) and anaerobic (methane fermentation) biotransformations of solid wastes

application of research:

■ **Stefan Malepszy**
professor
Dean of Faculty

Faculty of Horticulture
Department of Plant Genetics, Breeding and Biotechnology
Warsaw Agricultural University
Katedra Genetyki, Hodowli Roślin i Biotechnologii
Akademia Rolnicza
ul. Nowoursynowska 166, 02-787 Warszawa
phone (022) 843 09 82
fax (022) 843 09 82

research (key words):

transgenic plants, artificial seeds, *in vitro* selection, vegetative propagation, quality of regenerated plants breeding of new varieties, high quality of seeds material

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

in vitro propagation, cucumber transformation and mass regeneration

culture collection available:

cucumber somaclones and transgenics: *A. tumefaciens* strains, 40 somaclonal lines, 30 transgenic lines, 10 strains

■ **Tadeusz Malewski**

Ph.D. researcher

Department of Molecular Biology
Institute of Genetics and Animal Breeding
Zakład Biologii Molekularnej
Instytut Genetyki i Hodowli Zwierząt
Jastrzębiec, 05-551 Mroków
phone (022) 756 17 11
fax (022) 756 16 99

research (key words):

gene expression, transcription factors, promoter structure, bioinformatics, mammary gland

application of research:

biotechnology

■ **Janusz J. Malinowski**

Ph.D., researcher

Institute of Chemical Engineering
Polish Academy of Sciences
Instytut Inżynierii Chemicznej
Polska Akademia Nauk
ul. Bałtycka 5, 44-100 Gliwice
phone (032) 231 08 11 ex. 119
fax (032) 231 03 18
e-mail: j.mal@iich.gliwice.pl

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, extractive fermentation

■ **Urszula Małolepsza**

Ph.D.

Department of Plant Physiology and Biochemistry
University of Łódź
Katedra Fizjologii i Biochemii Roślin
Uniwersytet Łódzki
ul. Banacha 12/16, 90-237 Łódź
phone (042) 635 44 14
fax (042) 635 44 23

research (key words):

plant defence reactions, systemic acquired resistance, micropropagation of plants, plant *in vitro* culture

■ **Waldemar Marczewski**

Ph.D., Head of the
Biotechnological
Laboratory

Plant Breeding and Acclimatization Institute
Instytut Hodowli i Aklimatyzacji Roślin
Młochów, 05-832 Rozalin
phone (022) 729 92 48
fax (022) 729 92 47

research (key words):

resistance, molecular markers, mapping of potato genome

■ **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) 631 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

■ **Cezary J. Mądrzak**
associate professor

Institute of Biochemistry and Biotechnology
Agricultural University
Katedra Biochemii i Biotechnologii
Akademia Rolnicza
ul. Wołyńska 35, 60-637 Poznań
phone (061) 848 72 09
fax (061) 848 72 11

research (key words):

symbiotic nitrogen fixation, plant — microbe interactions,
plant pathogenesis

application of research:

agriculture, food technology

■ **Dariusz J. Michalczyk**
lecturer

Department of Plant Physiology and Biotechnology
University of Agriculture and Technology
Katedra Fizjologii i Biotechnologii Roślin
Akademia Rolniczo-Techniczna
10-957 Olsztyn-Kortowo
phone (089) 523 48 49
fax (089) 523 48 81

research (key words):

plant defence, legumes, transcriptional control

■ **Anna Michalska**
professor

Faculty of Law and Administration
Institute of International Public Law
Adam Mickiewicz University
Wydział Prawa i Administracji
Katedra Prawa Międzynarodowego Publicznego
Uniwersytet im. Adama Mickiewicza
ul. Wieniawskiego 1, 61-712 Poznań
phone (061) 853 62 51 ex. 212, 261 or (061) 853 68 43
fax (061) 853 66 89

research (key words):

human rights

- **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) 636 74 88 or (042) 631 34 64
 fax (042) 631 34 02
 telex 88 42 20, 88 61 36

research (key words):

refrigeration, modified atmosphere, food storage, freeze drying
 water activity

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

- **Korneliusz Miksch**
 professor
 Head of the Department

Faculty of Environmental and Energy Engineering
 Department of Environmental Biotechnology
 Technical University of Silesian
Wydział Inżynierii Środowiska i Energetyki
Katedra Biotechnologii Środowiskowej
Politechnika Śląska
 ul. Akademicka 2, 44-101 Gliwice
 phone (032) 237 29 46
 fax (032) 237 29 46
 e-mail: kmiksch@zeus.polsl.gliwice.pl

research (key words):

environmental biotechnology, wastewater treatment,
 waste management, environmental management, soil
 remediation

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 Agricultural and Food Biotechnology
Zakład Technologii Spirytusu i Drożdży
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
 ul. Rakowiecka 36, 02-532 Warszawa
 phone (022) 606 36 51

research (key words):

alcohol beverages, lactic acid bacteria, electro dialysis

application research:

food engineering, alcohol beverages

■ **Anna Misiewicz**

researcher, curator of culture collection
Head of the Department

Department of Technical Microbiology and Biochemistry
Institute of Agricultural and Food Biotechnology
Katedra Biochemii i Mikrobiologii Technicznej
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 606 36 91
fax (022) 49 04 26
e-mail: misiewicz@ibprs.waw.pl

research (key words):

biotechnological database, yeast identification, preservation, stabilization

■ **Konrad Misiura**

research associate

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) 681 97 44
fax (042) 681 54 83

research (key words):

modified oligonucleotides, ifosfamide analogues
DNA cross-linking, RNA cleavage

application research:

anticancer and antiviral agents

■ **Zbigniew Miszański**

associate professor

Department of Plant Physiology
Polish Academy of Sciences
Zakład Fizjologii Roślin
Polska Akademia Nauk
ul. Sławkowska 17, 31-016 Kraków
phone (012) 422 79 44
fax (012) 421 79 01

research (key words):

SO₂, O₃, CO₂, Cd⁺⁺ sensitivity, green plants, tissue culture, protoplasts

■ **Hanna Miszkiewicz**

Ph.D., researcher

Institute of Technical Biochemistry
Technical University of Łódź
Instytut Biochemii Technicznej
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 631 34 39

research (key words):

biocatalysis, biosynthesis of enzyme, α -galactosidase, microbial biosynthesis gamma-linolenic acid
food, pharmaceutical industry

application of research:

technology and/or know-how available:

HPLC

service available:

production, application of galactosidases, galactooligosaccharide, legume seeds, enzymatic degradation determination, HPLC

- **Tadeusz Miśkiewicz**
associate professor

Department of Food Biotechnology
Wrocław University of Economics
Katedra Biotechnologii Żywności
Akademia Ekonomiczna
ul. Komandorska 118/120, 53-345 Wrocław
phone (071) 68 02 69
fax (071) 67 27 78
e-mail: tmiskiew@credit.ae.wroc.pl

research (key words):

control of fermentation process

- **Beata Mizak**
assistant professor

National Veterinary Research Institute
Państwowy Instytut Weterynaryjny
al. Partyzantów 57, 24-100 Puławy
phone (081) 886 30 51 ex. 247
fax (081) 886 25 95

research (key words):

virus vectors, diagnostic tests, viral infections of animals

application of research:

diagnosis and eradication of virus diseases

- **Bronisława Morawiecka**
professor

Department of Molecular Biochemistry
Institute of Biochemistry and Molecular Biology
University of Wrocław
Zakład Biochemii Molekularnej
Instytut Biologii Molekularnej i Biochemii
Uniwersytet Wrocławski
ul. Tamka 2, 50-137 Wrocław
phone (071) 402 395 or (071) 402 640
fax (071) 402 608

research (key words):

acid phosphatase, lectins, glycoproteins

- **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, international (48) 391 216 23

research (key words):

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

service available:

technology and/or know-how available:

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

■ **Barbara Nawrot**

Ph.D.

Department of Bioorganic Chemistry
 Centre for 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) 681 89 52 ex. 249

research (key words):

chemistry of nucleic acids

application of research:

antiviral

■ **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) 347 27 43
 fax (058) 347 24 13
 e-mail: kola@pg.gda.pl

research (key words):

groundwater, microbiology, iron binding bacteria, sulphur bacteria, water and wastewater treatment, biological methods

■ **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) 681 89 52 ex. 249 or (042) 681 97 44
 fax (042) 684 71 26

research (key words):

protein engineering, DNA cloning, PCR, gene mutations

■ **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) 823 30 11 or (061) 822 13 12
 fax (061) 823 32 35

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 Bioprosesowej
Instytut Inżynierii Chemicznej
Politechnika Wroclawska
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
phone (071) 328 13 18
fax (071) 328 13 18
- research (key words):** membrane separation, membrane bioreactors, separation techniques, immobilization
- application of research:** pharmaceutical plants, wastewater treatment
- service available:** consulting
-
- **Helena Oberman**
professor
- 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) 636 36 39 or (042) 36 55 22
fax (042) 88 42 20 or (042) 88 47 16
- research (key words):** technical microbiology, yeast, lactic acid bacteria, storage, preservation, stabilization
- application of research:** industrial microbiology
- service available:** experts groups in industrial microbiology
- culture collections available:** LOCK 105 — industrial yeasts, bacteria, about 550 strains (available without limitations for laboratories and industry)
-
- **Andrzej Okruszek**
associate professor
Secretary of Biotechnology
Committee of the Polish Academy
of Sciences
- 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) 681 97 44 or (042) 681 89 52 ex. 215
fax (042) 684 71 26 or (042) 681 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, protein drugs)

- **Jan Olejniczak**
assistant professor
- Department Mutagenesis Section
Institute of Plant Genetics
Polish Academy of Sciences
Pracownia Mutagenezy
Instytut Genetyki Roślin
Polska Akademia Nauk
ul. Strzeszyńska 34, 60-479 Poznań
phone (061) 823 35 11
fax (061) 823 36 71
- research (key words):** *Cuphea*, *Brassica*, culture *in vitro*
application of research: alternative plants, domestication
- **Anna Nadolska-Orczyk**
assistant professor
- Department of Plant Tissue Culture
Plant Breeding and Acclimatization Insitute
Zakład Roślinnych Kultur Tkankowych
Instytut Hodowli i Aklimatyzacji Roślin
Radzików, 05-870 Błonie
phone (022) 725 26 11
fax (022) 725 47 14
- research (key words):** *Agrobacterium*, plant transformation grain legumes,
somatic hybrids *Brassicaceae*
application of research: plant breeding
- **Wacław Orczyk**
assistant professor
- Department of Plant Tissue Culture
Plant Breeding and Acclimatization Insitute
Zakład Roślinnych Kultur Tkankowych
Instytut Hodowli i Aklimatyzacji Roślin
Radzików, 05-870 Błonie
phone (022) 725 26 11
fax (022) 725 47 14
- research (key words):** somatic hybridization, plant transformation, *Brassicaceae*
application of research: plant breeding
- **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 (046) 833 30 65 or (046) 833 20 41
fax (046) 833 30 65 or (046) 833 20 88
- research (key words):** regeneration, transformation, molecular markers, *in vitro*
propagation and storage
application of research: ornamental plant breeding, regeneration, agrotechnology,
gene banks

- **Leszek Orlikowski**
professor
Department of Ornamental Plant Protection
Research Institute of Pomology and Floriculture
Zakład Hodowli Roślin Ozdobnych
Instytut Sadownictwa i Kwiaciarnictwa
ul. Pomologiczna 18, 96-100 Skierniewice
phone (046) 833 20 41
fax (046) 833 20 88
- research (key words):** phytopathology, biological
- **Włodzimierz S. Ostrowski**
professor
Vice-President of the Polish
Academy of Sciences
Institute of Medical Biochemistry
Collegium Medicum
Jagiellonian University
Instytut Biochemii Lekarskiej
Uniwersytet Jagielloński
ul. Kopernika 7, 31-143 Kraków
phone (012) 422 32 72
fax (012) 422 27 91
- research (key words):** enzymology, protein structure
- **Anna Krajewska-Patan**
Ph.D., Head of the
Laboratory
Laboratory of Experimental Biotechnology
Institute of Medicinal Plants
Laboratorium Biotechnologii Eksperymentalnej
Instytut Przetworów Zielarskich
ul. Libelta 27, 61-707 Poznań
phone (061) 852 40 03
fax (061) 852 74 63
- research (key words):** tissue culture of medicinal plants
application of research: production of natural biologically active compounds
- **Jacek Patykowski**
Ph.D.
Department of Plant Physiology and Biochemistry
University of Łódź
Katedra Fizjologii i Biochemii Roślin
Uniwersytet Łódzki
ul. Banacha 12/16, 90-237 Łódź
phone (042) 635 44 14
fax (042) 635 44 23
- research (key words):** plant defence reactions, systemic acquired
resistance, plant micropropagation

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 Mutagenozy
Zakład Genetyki Człowieka
Polska Akademia Nauk
ul. Strzeszyńska 32, 60-479 Poznań
phone (061) 823 32 35 or (061) 823 30 11
fax (061) 823 32 35

research (key words):

hereditary susceptibility to cancer, benzo/ α /pyrene, locus Ah, ataxia telangiectasia, familial polyposis coli

application of research:

molecular dosimetry of exposure and biological effect of polycyclic aromatic hydrocarbons

technology and/or know-how available:

measurement of DNA adducts

Zygmunt Pejsak

professor
Head of the Department
Member of the Polish Academy of Sciences

Department of Swine Diseases
National Veterinary Research Institute
Zakład Chorób Świń
Państwowy Instytut Weterynaryjny
al. Partyzantów 57, 24-100 Puławy
phone (081) 886 30 51
fax (081) 886 25 95
telex 06 42 401

research (key words):

immunoprophylaxy and diagnosis of swine diseases

application of research:

veterinary, production of diagnostic kits and vaccines (diagnosis, immunoprophylaxis)

service available:

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

commercial product:

cell culture vaccines: „Cellpest”, „Rotavac”, „Suiherpesvac”, „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 of Animal Origin
Warsaw Agricultural University
Katedra Technologii Żywności Pochodzenia Zwierzęcego
Szkoła Główna Gospodarstwa Wiejskiego
ul. Grochowska 272, 03-849 Warszawa
phone (022) 810 35 51
fax (022) 810 35 51

research (key words):

biochemistry of meat, meat aging, quality of meat

■ **Andrzej Plucienniczak**

professor
Associate Director
Vice-President of Biotechnology
Committee of the Polish Academy
of Sciences

Institute of Biotechnology and Antibiotics
Instytut Biotechnologii i Antybiotyków
ul. Starościńska 5, 02-516 Warszawa
phone (022) 49 60 51
fax (022) 48 33 32
e-mail: apluciba@hotmail.com

research (key words):

transgenic plants, expression of viral antigens in plants

application of research:

production of antigens

service available:

DNA cloning and sequencing

■ **Anna Podhajska**

professor

Department of Biotechnology
University of Gdańsk
Katedra Biotechnologii
Uniwersytet Gdański
ul. Kładki 24, 80-822 Gdańsk
phone (058) 301 28 07 or (058) 301 22 41 ex. 360
fax (058) 301 28 07

research (key words):

restriction enzymes, molecular diagnostics, gene therapy

application of research:

molecular biology, clinical using of molecular diagnostics

commercial product:

purified viral and plasmid DNA, DNA molecular weight
markers, restriction enzymes

■ **Ryszard Pohorecki**

professor
Member 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) 825 85 64
fax (022) 825 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 Spożywczej i Biotechnologii
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 631 34 37 or (042) 636 77 04
e-mail: jacpol@ck-sg.p.lodz.pl

research (key words):

tyrosine phenol lyase, gene cloning and expression

service available:

DNA isolation and purification, bioremediation

■ **Antoni Polanowski**
professor

Department of Biotechnology of Proteins
Institute of Biochemistry and Molecular Biology
University of Wrocław
Zakład Biotechnologii Białek
Instytut Biologii Molekularnej i Biochemii
Uniwersytet Wrocławski
ul. Tamka 2, 50-137 Wrocław
phone (071) 40 26 40
fax (071) 40 26 08

research (key words):

proteolytic enzymes, proleasase inhibitors

■ **Andrzej Ponikiewski**
Patent Attorney

Department of Patent Protection in Chemistry,
Electronics and Biotechnology
Polservice sp. z o. o.,
Wydział Ochrony Patentowej w Chemii, Elektronice
i Biotechnologii
Polservice sp. z o. o.,
ul. Chałubińskiego 8, 00-950 Warszawa
phone (022) 830 08 07
fax (022) 830 00 95 or (022) 830 09 72

research (key words):

biotechnology, genetic engineering

application of research:

patent applications in the field of biotechnology
and patent proceeding in Poland and abroad

■ **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. Weigla 12, 53-114 Wrocław
phone (071) 73 22 74
fax (071) 73 25 87

research (key words):

tumor immunology, experimental anticancer treatment
cancer therapy, immunobiology of cancer, invasion and
metastasis

application of research:

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

hybridoma producing monoclonal antibodies

service available:

tissue cultures *in vitro*, maintenance, freezing identification, and
storing in liquid nitrogen

culture collections available:

T.C. Lines Collection, ~ 200 cell lines, human, animal

- **Michał Reichert**
assistant professor

Department Biochemistry
National Veterinary Research Institute
Zakład Biochemii
Państwowy Instytut Weterynaryjny
al. Partyzantów 57, 24-100 Puławy
phone (081) 886 30 51 ex. 269
fax (081) 886 25 95

research (key words):
application of research:
technology and/or know-how available:
service available:
culture collections available:
commercial products:

molecular virology, BLV, CAEV
PCR diagnosis, genetic vaccination

molecular cloning of BLV genetic variants
molecular diagnosis of BLV and CAEV
FLK-BLV, SSF (sheep skin fibroblasts)
BLV antigen

- **Wanda Duszkiewicz-Reinhard**
associate professor

Department of Food Biotechnology
Warsaw Agricultural University
Katedra Biotechnologii Żywności
Szkoła Główna Gospodarstwa Wiejskiego (SGGW)
ul. Rakowiecka 26/30, 02-528 Warszawa
phone (022) 49 22 51 ex. 2164
fax (022) 49 13 75

research (key words):

food microbiology, microbiological quality of food,
HACCP, antimicrobial activity of plant extracts

- **Arnold Rejs**
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) 523 32 33
fax (089) 527 39 08

research (key words):

food biotechnology — enzymes, proteins, nutrition, cheese,
fermentation, microorganism
application of research:
service available:
food products and processing
product development and consulting on dairy,
fermentation and grains technology

■ **Jerzy Rogalski**

associate professor, D.Sc.

Department of Biochemistry
M. Curie-Skłodowska University
Zakład Biochemii
Uniwersytet M. Curie-Skłodowskiej
pl. M. Curie-Skłodowskiej 3, 20-031 Lublin
phone (081) 537 56 68 or (081) 537 57 37
fax (081) 537 51 02 or (081) 533 36 69

research (key words):

ligninocellulose, affinity chromatography, immobilization, enzymology, biotechnology, biomass, industrial waste

application of research:

pulp and paper industry, biomass production, production of enzymes for food and feed industries

■ **Stanisław Rosochacki**

Ph. D.

Department of Molecular Biology
Institute of Genetics and Animal Breeding
Polish Academy of Sciences
Zakład Cytogenetyki Molekularnej
Instytut Genetyki i Hodowli Zwierząt
Polska Akademia Nauk
Jastrzębiec, 05-551 Mroków
phone (022) 756 05 12 ex. 366
fax (022) 756 04 99

research (key words):

gene transfer, construction of genes

application of research:

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. R. Weigla 12, 53-114 Wrocław
phone (071) 73 22 74
fax (071) 67 91 11

research (key words):

medical and general microbiology

application of research:

medicine, biology, biotechnology

service available:

supply of bacterial cultures, information on strain sources, features and cultivation conditions

commercial products:

microbial cultures (freeze-dried or alive) for research, education and industry

culture collections available:

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) 648 09 51

research (key words):

plant regeneration, plant morphogenetics, crops, alternative plants

culture collections available:

Rhododendrons, Ananas, Rose, Ferns, Lilium, Amaranthus, Secale, Lupinus

■ **Danuta Rymkiewicz**

professor

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 40 51

research (key words):

control of biopreparations, the clostridia

■ **Leon Sedlaczek**

professor

Associate Director
for Scientific Affairs

Centre of Microbiology and Virology
Polish Academy of Sciences
Centrum Mikrobiologii i Wirusologii
Polska Akademia Nauk
ul. Lodowa 106, 93-232 Łódź
phone (042) 649 22 77 or (042) 649 22 63
fax (042) 649 16 33

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**

associate professor

Head of the Department

Department of Molecular Biology
Cancer Center Institute
Zakład Biologii Molekularnej
Centrum Onkologii
ul. Roentgena 5, 02-781 Warszawa
phone (022) 644 02 09
fax (022) 644 76 07

research (key words):

DNA repair, DNA replication, molecular diagnostic, gene expression, diagnosis of cancer disease

application of research:

diagnosis of cancer disease

■ **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) 606 36 50
fax (022) 49 04 26
e-mail: sieliwanowicz@ibprs.waw.pl

research (key words):
application of research:

biochemistry, enzymology, genetic engineering
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) 20 42 06

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

peptide chemistry and biology, peptide synthesis, peptide
conformation
theoretical medicine and therapy
consulting on peptide synthesis, spectroscopy and
circular dichroism
peptide immunomodulators (Tuftsin, Pentigetide,
Thymopentin analogues, Cyclolinopeptide A)

commercial products:

■ **Zbigniew H. Sierota**
Ph.D., D.Sc.
Head of the Department

Department of Forest Phytopathology
Forest Research Institute
Zakład Fitopatologii Leśnej
Instytut Badawczy Leśnictwa
ul. Bitwy Warszawskiej 1920 r. nr 3, 00-973 Warszawa
phone (022) 823 41 08
e-mail: sierotaz@ibles.las.waw.pl

research (key words):
application of research:
culture collections available:
commercial products:

root pathogens, biological control, biological monitoring,
Mycorrhiza
forest nurseries, stands
Phlebiopsis gigantea, mycorrhizal fungi
„Biopreparation-PqIBL” and similar

■ **Agnieszka Sirko**
assistant 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) 659 70 72 ex. 1213
fax (022) 658 46 36

research (key words):
application of research:

plant oral vaccines, sulfur metabolism
transgenic plants

- **Krystyna Siwińska**
Ph.D., researcher
- Faculty of Food Chemistry and Biotechnology
Institute of Technical Biochemistry
Technical University of Łódź
Wydział Chemii i Biotechnologii Żywności
Instytut Biochemii Technicznej
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 631 34 32 or (042) 636 77 04
- research (key words):** acid stable amylases, glucomylase, cellulases
application of research: food industry, clarification of fruit juices
- **Anna Skorupska**
professor
- Department of General Microbiology
Institute of Microbiology
M. Curie-Skłodowska University
Zakład Mikrobiologii Ogólnej
Instytut Mikrobiologii
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 72
fax (081) 537 59 59
- research (key words):** plant — mikrobe interaction, microbial biotechnology
application of research: GMO bacteria
- **Maria Skrzyszowska**
Ph.D., researcher
- Department of Animal Reproduction
National Research Institute of Animal Production
Zakład Rozrodu Zwierząt
Instytut Zootechniki
32-083 Balice k. Krakowa
phone (012) 285 67 14
fax (012) 285 67 33
- research (key words):** embryo cloning, intracytoplasmic sperm injection (ICSI),
gen transfer
application of research: farm animals breeding
- **Zdzisław Smorąg**
professor
Head of the Department
- National Research Institute of Animal Production
Instytut Zootechniki
32-083 Balice k. Krakowa
phone (012) 285 67 11 to 16 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
application of research: animal production

■ **Eugeniusz Sobczak**
 professor
 Head of the Department

Department of Food Biotechnology
 Warsaw Agricultural University
Katedra Biotechnologii Żywności
Szkoła Główna Gospodarstwa Wiejskiego (SGGW)
 ul. Rakowiecka 26/30, 02-528 Warszawa
 phone (022) 49 22 51 ex. 2231
 fax (022) 49 13 75

research (key words):

technology of fermentation, yeasts production,
 technical microbiology

■ **Anna Góra-Sochacka**
 research assistant

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) 659 70 72
 fax (022) 658 46 36

research (key words):

viroids, plant viruses

■ **Dariusz Sochacki**
 researcher

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 (046) 833 20 41 or (046) 833 23 66
 fax (046) 833 30 65 or (046) 833 20 88

research (key words):
application of research:

micropropagation, virus testing
 plant breeding

■ **Ewa Solarska**
 Ph.D.
 Head of the Laboratory

Institute of Soil Science and Plant Cultivation
Instytut Uprawy, Nawożenia i Gleboznawstwa
 Osada Pałacowa, 24-100 Puławy, 21-002 Jastków
 phone (081) 886 34 21
 fax (081) 886 45 47

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

diseases of hop, fungi, viruses, spider mites, hop aphids
 agriculture, control of diseases and pests
 virus free hop plants

- **Mirosława Staniaszek**
researcher
- Research Institute of Vegetable Crops
Instytut Warzywnictwa
ul. Konstytucji 3 Maja 1/3, 96-100 Skierniewice
phone (046) 833 41 93
fax (046) 833 31 86
- research (key words):** biotechnology, molecular markers, genetics, breeding
application of research: breeding for resistance to disease
- **Wojciech Jacek Stec**
professor
Head of the Department
Member of the Polish Academy of Sciences
- 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) 681 97 44
fax (042) 681 54 83
e-mail: wjstec@bio.cbmm.lodz.pl
- research (key words):** oligonucleotides and analogues, antisense, protein engineering, phosphorothioates, methanophosphonates
application of research: medicine, modulators of gene expression
service available: DNA synthesis
technology and/or know-how available: Hrec α TNF on gram scale
commercial products: oligonucleotides, oligo-(nucleoside phosphorothioate)s
- **Krystyna Maria Stecka**
Ph.D., assistant professor
- Department of Spirit and Yeast Technology
Institute of Agricultural and Food Biotechnology
Zakład Technologii Spirytusu i Drożdży
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 49 04 25 or (022) 606 36 49
fax (022) 49 04 26 or (022) 49 04 28
- research (key words):** yeast technology, alcoholic fermentation
application of research: yeast production, distillery
- **Barbara Stefaniak**
Ph.D., researcher
- Laboratory of General Botany
Faculty of Biology
Adam Mickiewicz University
Zakład Botaniki Ogólnej
Wydział Biologii
Uniwersytet im. Adama Mickiewicza
al. Niepodległości 14, 61-713 Poznań
phone (061) 852 56 03
fax (061) 853 65 36
- research (key words):** plant cell culture, somatic embryogenesis, cell suspension, transformation, plant embryology

■ **Piotr Stępień**
professor

Department of Genetics
University of Warsaw
Zakład Genetyki
Uniwersytet Warszawski
ul. Pawińskiego 5a, 02-106 Warszawa
phone (022) 659 70 72 ex. 2240
e-mail: stepien@ibb.waw.pl

research (key words):
application of research:

molecular genetics, fungal and human genes
molecular genetics

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

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) 637 40 22 ex. 217
fax (012) 637 45 00

research (key words):
application of research:

plant tissue culture, secondary metabolites, hairy roots,
Agrobacterium — mediated transformation, medicinal plants
in vitro propagation, secondary metabolite production

■ **Urszula Szybiak-Stróżycka**
Ph.D., assistant professor

Institute of Biochemistry and Biotechnology
Agricultural University
Katedra Biochemii i Biotechnologii
Akademia Rolnicza
ul. Wołyńska 35, 60-637 Poznań
phone (061) 822 45 81 ex. 171, 176
fax (061) 841 10 22

research (key words):

plant molecular virology, viral sequences and their gene
expression in plant cells, molecular diagnostics of viral
infections in plants, plant microbe interactions during
symbiogenesis, principles of molecular evolution

■ **Czesław Strumillo**

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 213/215, 90-924 Łódź
phone (042) 631 37 00
fax (042) 636 56 63
e-mail: cstrumil@wipos.p.lodz.pl

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) 637 67 44
fax (042) 637 62 14

research (key words):

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

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
Katedra Biochemii Zwierząt
Akademia Rolniczo-Techniczna
ul. Oczapowskiego 5, 10-728 Olsztyn-Kortowo
phone (089) 527 83 91
fax (089) 527 49 38
e-mail: kbz@moskit.art.olsztyn.pl

research (key words):

biochemistry and immunology of animal semen,

application of research:

cryobiochemistry of spermatozoa, preservation of male gametes
animal production

- **Przemysław Szafranski**
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

- **Stanisław Szala**
professor

Department of Molecular Biology
Center of Oncology
Maria Skłodowska-Curie Memorial Institute
Zakład Biologii Molekularnej
Centrum Onkologii
Instytut Pamięci Marii Skłodowskiej-Curie
ul. Wyrbrzeże Armii Krajowej 15, 44-101 Gliwice
phone (032) 231 10 61 ex. 879
fax (032) 231 35 12

research (key words):

tumor angiogenesis, tumor gene therapy, viral and non-viral vectors (carriers) in tumor gene therapy
tumor therapy

application of research:

- **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) 633 18 98
fax (012) 633 33 07
e-mail: rzszaiek@cyf-kr.edu.pl

research (key words):

animal production breeding and management of cattle

application of research:

agriculture, animal industries

service available:

consulting, post graduate and special courses, teaching
organization of cattle production

- **Jan W. Szarkowski**
professor

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 38

research (key words):

molecular biology, nucleolytic enzymes

- **Andrzej Szczepanek**
Ph.D.
Head of the Laboratory
- Laboratory of Genetic Engineering
TERPOL Pharmaceutical Enterprise s.c.
Laboratorium Inżynierii Genetycznej
TERPOL Przedsiębiorstwo Farmaceutyczne s.c.
ul. P.O.W. 57, 98-200 Sieradz
phone (043) 822 45 48 or (043) 822 05 86 ex. 208
fax (043) 822 71 05
e-mail: ingen@kki.net.pl
- research (key words):** gene expression, recombinant proteins *E. coli*, protein isolation and purification
- application of research:** production of recombinant proteins for clinical diagnostic and pharmaceutical technology
- technology and/or know-how available:** PCR, molecular biology methods bath and chromatography protein purification
- service available:** PCR amplification, construction of expression vectors, recombinant proteins isolation and purification, DNA cloning
- commercial products:** Tag DNA polymerase, DNA markers, HIV recombinant proteins, HBV PCR diagnostic hit, molecular biology services
- **Mirosława Szczęsna**
Ph.D., 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) 631 34 34 or (042) 636 77 04
e-mail: mirszcz@ck-sg.p.lodz.pl
- research (key words):** microbial enzymes biosynthesis, proteinases, serine proteinase, immobilization of biocatalysts, strains improvement
- application of research:** production of subtilisin, laundry and food industry
- service available:** production of enzymes and immobilized biocatalysts, image processing system
- **Janusz Szczodrak**
associate professor
- Department of Industrial Microbiology
M. Curie-Skłodowska University
Zakład Mikrobiologii Przemysłowej
Uniwersytet M. Curie-Skłodowskiej
ul. Akademicka 19, 20-033 Lublin
phone (081) 537 59 09
fax (081) 537 59 59
e-mail: szczo@biotop.umcs.lublin.pl
- research (key words):** citric acid fermentation, fungal cellulases and dextranases, ethanol from cellulose and whey, amylase-resistant starch, barley β -glucans, polysaccharides and enzymes involved in dental caries
- application of research:** food and feed processing, enzymatic hydrolysis of biomass, caries prevention

■ **Katarzyna Niemirowicz-Szczytt**
professor

Department of Plant Genetics, Breeding and Biotechnology
Warsaw Agricultural University
Katedra Hodowli, Genetyki Roślin i Biotechnologii
Akademia Rolnicza
ul. Nowoursynowska 166, 02-787 Warszawa
phone (022) 843 09 82
fax (022) 843 09 82

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

plant genetics, plant biotechnology, plant breeding
plant breeding

tomato transgenic and cucumber haploid plants production

■ **Apolinary Szewczuk**
professor
Biochemical Laboratory

Institute of Immunology and Experimental Therapy
Polish Academy of Sciences
Instytut Immunologii i Terapii Doświadczalnej
Polska Akademia Nauk
ul. Weigla 12, 53-114 Wrocław
phone (071) 73 22 74
fax (071) 73 25 87

research (key words):

medical diagnostics, immunodiagnostics, immunofiltration
tests, detection and investigations of human
choriognadotropin and lutropin
pregnancy and trofoblastic 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 trofoblastic disease)

■ **Bogusław Szewczyk**
professor
Head of the Department

Department of Molecular Virology
University of Gdańsk
Zakład Wirusologii Molekularnej
Uniwersytet Gdański
ul. Kładki 24, 80-822 Gdańsk
phone (058) 301 57 41
fax (058) 301 00 72

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

herpesvirus, vaccines, diagnostic tests, viral propagation
recombinant vaccines and diagnostics

Baculovirus expression, cloning and expression of genes
ELISA test for differentiation infected and vaccinated animals

- **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) 660 64 13
fax (022) 825 14 40

research (key words):

solid state fermentation, bioprocess modelling
enzyme production, ethanol fermentation

application of research:

- **Józef Stanisław Szopa**
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
phone (042) 631 34 83

research (key words):

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

- **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) 823 30 11
fax (061) 823 32 35

research (key words):

molecular epidemiology — ecogenetics

application of research:

clinical diagnosis

culture collection:

primary lymphocytes

- **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) 848 72 46
fax (061) 848 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
professor

Department of Food Technology
University of Agriculture
Katedra Technologii Żywności
Akademia Rolnicza
ul. Akademicka 13, 20-934 Lublin
phone (081) 525 47 70
fax (081) 533 35 49

research (key words):

food technology, cellulase, enzymatic hydrolysis of cellulose

Czesław Tarkowski
professor

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) 445 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
University of Medical Sciences in Poznań
Zakład Botaniki Farmaceutycznej
Akademia Medyczna im. K. Marcinkowskiego
ul. Św. Marii Magdaleny 14, 61-861 Poznań
phone (061) 852 90 57

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

Maria Trzcńska
Ph.D., researcher

Department of Technical Microbiology and Biochemistry
Institute of Agro- and Food Biotechnology
Zakład Mikrobiologii Technicznej i Biochemii
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 606 36 41
fax (022) 49 04 26

research (key words):

enzymes, immobilization

application of research:

enzyme purification

■ **Marianna Turkiewicz**
professor

Institute of Technical Biochemistry
Technical University of Łódź
Instytut Biochemii Technicznej
Politechnika Łódzka
ul. Stefanowskiego 4/10, 90-924 Łódź
phone (042) 631 34 40
fax (042) 631 34 02
e-mail: mtur@ck-sg.p.lodz.pl

research (key words):

enzymology, applied biocatalysis, cold adapted enzymes, serine and metallo- proteases, bacterial polysaccharides food industry, medicine, laundry

application of research:

purification and application of enzymes, consulting

service available:

crude preparations of pectinases for clarification of fruit juices, crude preparations of cold proteinases

commercial product:

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

Institute of Bioorganic Chemistry
Polish Academy of Sciences
Instytut Chemii Bioorganicznej
Polska Akademia Nauk
ul. Noskowskiego 12/14, 61-704 Poznań
phone (061) 852 85 03 ex. 133, 134
fax (061) 852 05 32
e-mail: twardows@rose.poznan.edu.pl
and twardows@ibch.poznan.pl
and Institute of Technical Biochemistry
Technical University of Łódź
Instytut Biochemii Technicznej
Politechnika Łódzka

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

service available:

publication for and about biotechnology in Poland, consulting

■ **Stefan Tyski**

professor
Head of the Department

Department Antibiotics and Microbiology
Drug Institute
Zakład Mikrobiologii i Antybiotyków
Instytut Leków
ul. Chełmska 30/34, 00-725 Warszawa
phone (022) 41 36 83 or (022) 41 29 40 ex. 448
fax (022) 41 06 52

research (key words):

mechanisms of bacterial antimicrobial agents resistance, meningococcal infections, antiseptics activity, bacterial virulence factors, antibiotics analytical methods, microbial contamination control

application of research:

State Control of antibiotic drugs, State Control of drugs sterility and microbial purity, application of capillary electrophoresis for antibiotics determination, antimicrobial agents inhibitory concentration determination
service available: pharmaceutical analysis of antibiotic drugs, sterility control and detection of microbial contamination of drugs and medical devices by different methods, typing and grouping of *Neisseria meningitidis* isolates

technology and/or know-how available:

antibiotic drugs analysis by microbiological and chemical methods, methods of microbial contamination control, characteristic of meningococcal strains

■ **Stanisław Ułaszewski**

professor
Head of the Department
Director of the Institute

Institute of Microbiology
University of Wrocław
Instytut Mikrobiologii
Uniwersytet Wrocławski
ul. Przybyszewskiego 63/77, 51-116 Wrocław
phone (071) 324 72 93
fax (071) 325 21 51
e-mail: stan@angband.microb.uni.wroc.pl

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
service available: DNA sequencing and cloning

culture collections available:

Saccharomyces cerevisiae mutants and other yeast

■ **Henryk Urbanek**

professor
Head of the Department

Department of Plant Physiology and Biochemistry
University of Łódź
Katedra Fizjologii i Biochemii Roślin
Uniwersytet Łódzki
ul. Banacha 12/16, 90-237 Łódź
phone (042) 635 44 15 or (042) 635 44 14
fax (042) 635 44 23

research (key words):

plant — pathogen interactions, micropropagation, plant cultures *in vitro*, biologically active compounds

- **Stanisław Wajda**
legal adviser
Ministry of Environment Protection
*Ministerstwo Ochrony Środowiska, Zasobów
Naturalnych i Leśnictwa*
ul. Wawelska 52/54, 00-922 Warszawa
phone (022) 825 85 73
e-mail: swajda@polbox.pl
- research (key words):** environmental law
- **Witold Stefan Walerych**
professor
Institute of Biochemistry and Biotechnology
Agricultural University
Katedra Biochemii i Biotechnologii
Akademia Rolnicza
ul. Wołyńska 35, 60-637 Poznań
phone (061) 822 45 81 ex. 186
fax (061) 841 10 22
- research (key words):** regulation of transcription in higher plants, potato
transformation using genetic engineering techniques
- application of research:** agriculture
- **Kazimierz L. Wierchowski**
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
Department of Enzymology
Institute of Biochemistry and Molecular Biology
University of Wrocław
Zakład Enzymologii
Instytut Biologii Molekularnej i Biochemii
Uniwersytet Wrocławski
ul. Tamka 2, 50-137 Wrocław
phone (071) 40 26 40
fax (071) 40 26 08
- research (key words):** proteolysis, protease, inhibitor

■ **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) 752 60 18 or (075) 752 54 96
fax (075) 752 60 18

research (key words):

application of research:

service available:

commercial products:

biological sewage treatment
treatment of municipal and industrial biodegradable wastes
designing, construction, consulting and exploitation
SUPERBOS, MASTERBOS and series of small sewage
treatment plants, small biological sewage treatment plant
SUPERBOS, low energy consumption, high BOD reduction,
municipal and industrial organic sewage treatment

■ **Małgorzata Wiśniewska**

senior specialist
Secretary of ISO/TC34/SC 3
Fruit and Vegetable Products

Polish Committee for Standardization
Food and Agriculture Department
Polski Komitet Normalizacyjny
Zespół Rolno-Żywnościowy
ul. Świętokrzyska 14B, 00-950 Warszawa
P.O.Box 411
phone (022) 827 41 10
fax (022) 827 41 15

research (key words):

application of research:

service available:

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.
associate professor

Institute of Human Genetics
Polish Academy of Sciences
Zakład Genetyki Człowieka
Polska Akademia Nauk
ul. Strzeszyńska 32, 60-479 Poznań
phone (061) 823 30 11 or (061) 823 31 87
fax (061) 823 32 35
e-mail: wittmich@man.poznan.pl

research (key words):

application of research:

human molecular genetics, cystic fibrosis, chromosome Y
molecular diagnostics, bone marrow transplantation

genetic counseling

- **Halina Wysokińska**
 associate professor
 Head of the Department
 Department of Biology and Pharmaceutical Botany
 Medical University
Zakład Biologii i Botaniki Farmaceutycznej
Akademia Medyczna
 ul. Muszyńskiego 1, 90-151 Łódź
 phone (042) 678 26 31
 fax (042) 678 83 98
- research (key words):** plant cell culture, micropropagation, secondary metabolites, transgenic organ cultures
application of research: natural drugs
- **Wiesław Wzorek**
 professor
 Department of Food Biotechnology
 Warsaw Agricultural University
Katedra Biotechnologii Żywności
 Szkoła Główna Gospodarstwa Wiejskiego (SGGW)
 ul. Rakowiecka 26/30, 02-528 Warszawa
 phone (022) 49 22 51 ex. 2231
 fax (022) 49 13 75
- research (key words):** wine and beer technology
application of research: fruit wine technology, wine technology
- **Andrzej S. Zabza**
 professor
 Chairman of
 the Biotechnology Committee
 of the Polish Academy of Sciences
 Institute of Organic Chemistry, Biochemistry and
 Biotechnology
 Technical University of Wrocław
Instytut Chemii Organicznej, Biochemii i Biotechnologii
Politechnika Wrocławska
 ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław
 phone (071) 320 34 46
 fax (071) 328 40 64
- research (key words):** chemistry of natural products, chemical ecology, insect growth regulators, biotransformations, fungi-insect parasites
application of research: insect control
- **Włodzimierz Zagórski-Ostoja**
 professor
 Director of the Institute
 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
- research (key words):** virology, translation, yeast, plant transformation towards virus resistance
application of research: agriculture, detection of viruses

■ **Małgorzata Zalewska**

associate professor

Department of Ornamental Plants
 University of Technology and Agriculture
Zakład Roślin Ozdobnych
Akademia Rolniczo-Techniczna
 ul. Bernardyńska 6, 85-029 Bydgoszcz
 phone (052) 379 10 03
 fax (052) 373 66 01

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

in vitro mutagenesis, bud techniques and selection
 somatic mutagenesis in ornamental plants induced *in vitro*
 by ionizing radiation, mutation breeding

■ **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):**application of research:**

photobiology of psoralens, PUVA (psoralen+UVA)
 photochemotherapy mechanism, membrane lipids
 photodamage
 medicine, dermatology, immunodisorders

■ **Maria A. Zbieć**

Ph.D., assistant professor

Head of the Laboratory

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) 606 36 47
 fax (022) 49 04 26

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

analysis of organic substances by GC, GCMS, IRMS
 quality and authenticity of spirit and spirit products

■ **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) 852 56 03
 fax (061) 853 65 36

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

experimental plant embryology, *in vitro* fertilization, embryo
 culture, micropropagation of woody plants, anther culture
 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 Agricultural and Food Biotechnology
Zakład Technologii Spirytusu i Drożdży
Instytut Biotechnologii Przemysłu Rolno-Spożywczego
ul. Rakowiecka 36, 02-532 Warszawa
phone (022) 606 36 88
fax (022) 49 04 26

research (key words):
application of research:

alcohol fermentation, lactic and propionic acid bacteria
spirit technology, agrobiotechnology

- **Janusz Zimny**
associate professor

Department of Plant Tissue Culture
Institute of Plant Breeding and Acclimatization
Zakład Roślinnych Kultur Tkankowych
Instytut Hodowli i Aklimatyzacji Roślin
Radzików, 05-870 Błonie
phone (022) 725 36 11 ex. 286, 381
fax (022) 725 47 14

research (key words):
application of research:

in vitro culture, cereals, transformation, somatic
embryogenesis
plant breeding

- **Lech Zwierzchowski**
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) 756 17 11
fax (022) 756 16 99
e-mail: lechzwierz@yahoo.com

research (key words):
application of research:

biochemistry, molecular genetics, gene transfer, transgenic
animals
animal biotechnology

- **Krzysztof Żyła**
associate professor

Department of Food Biotechnology
University of Agriculture
Zakład Biotechnologii Żywności
Akademia Rolnicza
ul. 29 Listopada 46, 31-425 Kraków
phone (012) 411 91 44 ex. 567, 568, 576
fax (012) 411 77 53

research (key words):
application of research:

phytase, acid phosphatase, enzymic cocktails,
poultry nutrition, food processing
food processing and poultry nutrition