



International Union of Microbiological Societies

IUMS CONGRESSES:

**7th INTERNATIONAL CONGRESS OF BACTERIOLOGY
AND APPLIED MICROBIOLOGY DIVISION**



7th INTERNATIONAL CONGRESS OF MYCOLOGY DIVISION

Prague, Czechoslovakia, July 3-8, 1994

Czechoslovak Society for Microbiology
(*President* LIBOR EBRINGER)

Institute of Microbiology, Czechoslovak Academy of Sciences
(*Director* JAROSLAV SPÍŽEK)

INVITATION

On behalf of the Czechoslovak Society for Microbiology and the Institute of Microbiology of the Czechoslovak Academy of Sciences, the Organizing Committee cordially invites you to participate in the IUMS Congresses '94: BACTERIOLOGY AND APPLIED MICROBIOLOGY DIVISION and MYCOLOGY DIVISION. The Congresses '94 will be held in Prague City Congress Centre.

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SCIENTIFIC PROGRAMME

General structure will consist of symposia and poster sessions in the BACTERIOLOGY AND APPLIED MICROBIOLOGY DIVISION and MYCOLOGY DIVISION. Selected topics will be organized as INTERDIVISIONAL symposia and/or in the form of workshops or colloquia.

BACTERIOLOGY AND APPLIED MICROBIOLOGY DIVISION

- 1 Taxonomy and evolution
- 2 Classification methods and classification in epidemiology
- 3 Deterministic chaos and fractals in microbiology
- 4 Global cellular regulatory networks and stress responses
- 5 Transport in microorganisms
- 6 Surfaces and membranes
- 7 Physiology and metabolism in continuous culture
- 8 Physiology of anaerobes
- 9 Photosynthetic bacteria
- 10 Prokaryotic DNA synthesis, recombination and repair
- 11 Population genetics in bacteria
- 12 Protein phosphorylation and regulation of adaptive responses
- 13 Structural-functional aspects of restriction and modification systems
- 14 Genetic regulation of differentiation
- 15 Marine microbiology
- 16 Interaction of microbial associations in water
- 17 Indicator and pathogenic microorganisms in water environment
- 18 Life in extreme conditions
- 19 Ice nucleation active bacteria
- 20 Predictive food microbiology
- 21 Microbiological specification for foods
- 22 Health risks due to microbial contamination of foods
- 23 Overproduction of microbial products
- 24 Metabolic engineering
- 25 Microbial polyesters and polysaccharides
- 26 Biotransformation
- 27 Microbial leaching and biosorption
- 28 Oral microbiology
- 29 Clinical relevance in medical microbiology
- 30 New and emerging pathogens
- 31 Computer identification and decision-making
- 32 Rapid diagnostic methods
- 33 Immune system, host adaptation and microorganisms
- 34 Lipopolysaccharides and microbial immunomodulation
- 35 Gnotobiology
- 36 New methods in vaccine development
- 37 Resistance of mucous membranes to microorganisms
- 38 Bacterial toxins
- 39 Molecular mechanisms of virulence
- 40 Colonization factors of invasion and protection

MYCOLOGY DIVISION

- 41 Current trends in fungal taxonomy and nomenclature
- 42 New approaches for yeast taxonomy
- 43 Taxonomy of *Basidiomycetes*
- 44 Taxonomy of *Ascomycetes*
- 45 Stress responses in fungi

- 46 Applied chemotaxonomy of filamentous fungi
- 47 Biochemistry of antifungal compounds
- 48 Fungal dimorphism
- 49 Host–fungus interaction
- 50 Pathogenic yeasts
- 51 Fungal serology
- 52 Future trends in antifungal therapy and prophylaxis
- 53 Opportunistic fungal pathogens
- 54 Extrachromosomal elements in fungi
- 55 Molecular genetics of filamentous fungi
- 56 Yeast from DNA sequence to protein function
- 57 Fungal mating types
- 58 Filamentous fungi in biotechnology
- 59 Novel trends in exploitation of yeasts
- 60 Microbial degradation of lignocelluloses
- 61 Bio-conversion and degradation of ergot alkaloids
- 62 Current methods of food mycology
- 63 Fungi in biological control of pests
- 64 *Fusarium* mycotoxins
- 65 Biochemistry and molecular biology of mycotoxin synthesis
- 66 Toxicogenic and allergenic moulds in the indoor environment
- 67 Intoxications by higher fungi

INTERDIVISIONAL SYMPOSIA

- 68 Cell and life cycle in pro- and eukaryotes
- 69 Spatial organization of microbial cells
- 70 Recent advances in recombinant DNA techniques
- 71 Signalling pathways in microorganisms
- 72 Biodiversity
- 73 Culture collections
- 74 Microbial degradation of organic pollutants
- 75 Symbiotic plant microbe interactions
- 76 Microbial diseases of plants and biological control
- 77 Modelling and expert systems in microbiology
- 78 Beneficial effects of fermented products

ABSTRACTS

The call for abstracts will appear in the *Second Announcement* to be published during Summer 1993. It will be mailed to all those who request a copy.

COMMERCIAL EXHIBITION

The Congress Centre has a large area for commercial exhibits and offers excellent opportunities for companies and institutions to show their products and for Congress participants to become aware of new products and technologies.

ACTIVITIES AND ATTRACTIONS

Prague, the Heart of Europe, the Golden City, the hundred-spired city, the Head of Kingdom. All these are attributes that characterize an ancient and magical capital of Czechoslovakia. The entire historical core of the town with a well-preserved medieval ground plan is the largest urban conservation area (750 hectares) in the world. Its architectural jewels, from Roman rotundas and basilicas, gothic cathedrals and baroque churches up to living examples of art nouveau or cubist houses, make it a big museum in open air. Its cultural life, marked by names as W.A. Mozart, F. Kafka or A. Rodin, offers many opportunities as concerts, art galleries and museums. Busy streets of the metropolis offer many typical products as Bohemia Crystal, china, antiques and last but not least always enjoyable beer.

Various social events and tours are planned for Congress participants. Prague is especially beautiful in summer, and there will be many possibilities of sight-seeing. You will be able to relax at concerts or to refresh yourself in a number of typical beer parlors or cosy vine cellars. Excursions to the surroundings of Prague to see the beauties of Central Bohemia – pitoresque chateaus, medieval castles and natural sights – will be organized.

ACCOMMODATION

A wide range of accommodation facilities are available from cheap student dormitories up to five star hotels. All of them are located in the City of Prague or in a near distance from the Congress Centre.

SECOND CIRCULAR

Second circular will be published in the Summer of 1993 and will contain call for the papers, a final Congresses Programme, the social events, the tours, and information on registration and accommodation.

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