

WHAT WE OFFER ...

- Microbial strains of industrial interest (drug substances, biomaterials, food and feed additives, enzymes, biopesticides, biofertilizers);
- Bioprocess development (fermentation using the strains, scale-up, down-stream processing), in-house (in the institute) formulation;
- Analytical and pharmacological studies and assays (GLP certified);



- Technology transfer : biosynthesis/extraction products from plant raw materials technologies, synthesis of pharmaceutical substances and pharmaceutical technologies.

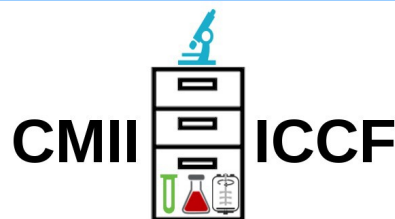
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Collection of Industrial Importance Microorganisms

CMII-ICCF-WFCC 232



**National Institute for
Chemical Pharmaceutical Research &
Development,
ICCF-Bucharest, Romania**



About ... ICCF Bucharest



Our History over the years

The Chemical Pharmaceutical Institute was founded in 1949.

1954-1970: 370 technologies of valuable medicines (semisynthetic penicilines, cardiovascular, antidiabetics, hormones, therapeutic enzymes) were developed and applied in industry;

1970-1980: 700 technologies, including synthesis and biosynthesis drugs, biostimulators, medicines from plant and animal tissue extracts (about 90% of all those applied in the Romanian pharmaceutical industry);

1990-2000: development of the production activity based on the own research products (17 medicines, most of them unique in the Romanian industry, 30 tests for clinical diagnosis, more than 60 plant extracts, about 100 high purity reagents and 20 active substances);

2003-present: 79 technologies and technological studies, 44 products and 295 methods, procedures and normatives.

Departments



About ... CMII-ICCF-WFCC 232

Established in 1952, the CMII collection holds over 400 strains of bacteria, yeasts and fungi.

Since 1981, CMII has been registered at the World Federation of Culture Collection (id number WFCC 232).

In 2014, CMII joined in a pan-European distributed research infrastructure, **Microbial Resource Research Infrastructure – MIRRI**, as a collaborating party and national node in Romania.

The collection strains are of industrial importance as producers of pharmaceuticals and similar ingredients, biochemical, as well as for veterinary and agrochemical use. A lot of them were obtained through programs of mutagenesis and artificial selection and found industrial applications: biopolymers, amino acids, enzymes, single-cell proteins, vitamins, biopesticides, biostimulants.

● 60 strains and procedures are protected by patents.

Biosynthesis technologies

PHARMACEUTICALS (veterinary and human use)	SUSTAINABLE AGRICULTURE	OTHER INDUSTRIAL APPLICATIONS
<ul style="list-style-type: none">•Bactosan•Probiotics•Bactobiogen•Chromiated yeast (hypoglycemiatic action)•Yeast biomass product (antioxidant and antidiabetic activity)	<ul style="list-style-type: none">•Ecological products with biostimulation and biofertilization action•Biological control of bacteriosis attack and pathogenic fungi	<ul style="list-style-type: none">•Curdlan-, xanthan-, gellan- and pullulan- type polysaccharides•Bacterial xylanases•Biodegradable polyesters