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MICRO-ORGANISM CULTURE COLLECTIONS:

ACRONYMS, SIGLA, AND ABBREVIATIONS
Preface

This study, and compilation, was made as part of the investigations being conducted at the Northern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture, Peoria, Ill.

The Agricultural Research Culture Collection (with siglum NRRL) maintained here is one of the world’s largest and most complete collections of agriculturally and industrially important bacteria, yeast, molds, and aerobic actinomycetes. This collection serves as a source of authentic microorganisms for the fermentative production of organic acids, vitamins, antibiotics, enzymes, feeds, beverages, and foods.

Also, it serves as a repository for strains concerned with patent applications. It is a source of micro-organisms of value in studies on the pollution control, health, and energy aspects of the Department’s research in these areas. It provides scientific information for improvements in the post-harvest sector of American agriculture, which includes technology affecting handling, storing, processing, and distributing of major farm products. Research in this complex technology provides the basis for preserving and increasing food quantity, economy, quality, safety, and nutritive value. This research also provides knowledge for producing alternative fuels, such as alcohol, from agricultural materials.

The subjects of research at the Center include the components of corn, wheat, grain sorghum, oats, soybeans, and horticultural and special crops. In the newest dimension of the Center’s program, added weight is being given to studies on photosynthesis, nitrogen fixation, and plant tissue culture.
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This study, and compilation, is a revision of ARS-NC-17
"Micro-Organism Culture Collections: Acronyms and Abbreviations,"
June 1974.
MICRO-ORGANISM CULTURE COLLECTIONS: ACRONYMS, SIGLA, AND ABBREVIATIONS

Thomas G. Pridham

Introduction

A most important aspect of collecting living micro-organisms involves recording histories or chronicling of many strains. In chronicling, designating strains of micro-organisms by an acronym, siglum, or abbreviation and number is necessary for an orderly arrangement of thousands of strains currently under study in many laboratories. Chronicling also provides an accurate reference for future students who will collate the results of research conducted with these materials. Many of the strains now under study will be adequately preserved for some time. Accurate, original designation and identity of that designation with progeny, descendants, or subcultures of particular strains are critical.

Unfortunately, some of the early researchers either recognized no need for strain designations, or they believed it unnecessary. Some modern-day microbiologists still follow this pattern. Comprehending many reports on micro-organisms is difficult because of omissions in strain designations, omissions of characterizations of the strains under study, and lack of adequate provisions for preserving strains.

Lack of providing adequate preservation, of course, was no real fault of the early workers because some of the knowledge in this area, such as lyophilization or liquid nitrogen preservation, had not been obtained yet. Publications on Streptomyces albus (Rossi Doria), Waksman and Henrici, 1943, are adequate examples where neglect of assigning acronyms, sigla, or abbreviations and strain numbers, and inability to preserve strains, has led to much confusion. Numerous contributions exist on one or more functions of Stm. albus where no designation or any kind of formal characterization is given and no strains are preserved. With the knowledge that the name appears to have been applied to at least two different kinds of streptomycetes, the uncertainties are evident that arise in attempting to collate and to generalize about functions or characteristics of this species (14, 17).

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1Head, Agricultural Research Culture Collection (NRRL), Northern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture, 1815 N. University St., Peoria, Ill. 61604.
Hundreds of different collections of micro-organisms are known throughout the world, each with its own numbering system. Many of these collections maintain progeny of the same original strains obtained either from the person who first isolated the micro-organism or secondhand through culture collection exchange agreements and purchases. Thus, progeny of the same strain is available under many different designations.

To more precisely identify such progenies, the acronym, abbreviation, or siglum of the collection where they are maintained serves as a prefix for the number. For example, NRRL 2209 is the siglum and strain number of progeny of *Stem. aureofaciens* Duggar 1948, strain Lederle A-377, maintained in the Agricultural Research Culture Collection (NRRL) of the Northern Regional Research Center. The siglum, NRRL, now is known among culture collection specialists to refer to the Agricultural Research Culture Collection. The strain number 2209 indicates that this strain was the 2,209 one to be accessioned into the permanent mold collection.

Although streptomycetes are known to be bacteria, at the time of accessioning that issue was cloudy, and the decision was made to include U.S. patent deposition strains of streptomycetes in the permanent mold collection. This strain was the first patent deposition strain accessioned in the ARS Culture Collection in connection with a U.S. patent application.

Only an accurate and complete chronicle can reveal the original identity of many strains, each of which carries many different designations. The extent depends only upon the number of different collections that have acquired progeny of the micro-organism. For example, the original strain designation of *Stem. aureofaciens* was Lederle A-377. Thus, Lederle A-377 and NRRL 2209 are designations for progeny of the same strain.

As another example, *Streptoverticillium abikoense* (Umezawa and others) Locci and others 1969 is a proposed species whose type strain originally was numbered Z-1-6 at the National Institute of Health of Japan (NIHJ). Therefore, the original strain designation was NIHJ Z-1-6. Progenies of this strain now carry the following different sigla, acronyms, and numbers, among others: ATCC 12766 (American Type Culture Collection), IMRU 3654 (Waksman Institute of Microbiology, Rutgers University), NRRL B-2133 (Northern Regional Research Center). Theoretically, cultures designated by these sigla, acronyms, and numbers all should exhibit the same characteristics, provided they have been maintained properly, and variations encountered among the various and sundry criteria used for characterization and description are considered.

Many culture collections are located throughout the world, some quite reliable, others less so. To prepare the “World Directory of Collections of Microorganisms,” 800 collections were solicited for information (15).
Unfortunately, the acronyms, sigla, or abbreviations for the collections listed were not included. Information of this kind may be obtained by perusing many different culture collection catalogs, but none provides a complete list. Accordingly, the purpose of this bulletin is to provide the most complete listing to date.

The list should be of value to culture collection personnel and researchers desiring precise information on strains they are studying or the location of collections where particular strains may be obtained. Although complete addresses for some collections are not available, enough information is given, along with additional references (7, 9, 11), to pursue any leads that may be indicated.

To orient the reader further, pertinent definitions of some terms are given below.

**acronym**
A shortened form of two or more words, or an entire phrase; generally a word formed from the initial letter of each of the successive parts of a compound term, that is, words made from the tips of other words, preferably pronounceable. Coined in 1943 from the Greek *akros*, meaning tip, and the Greek *onyma*, meaning name, hence acronym.

**sigla**
Signs, abbreviations, letters, or characters standing for words, shorthand, or markings in ancient manuscripts or on coins, medals, and so forth.

**aphearesis**
A new word coined by dropping one or more syllables from the first part of the multisyllable word, such as “phone” for “telephone.”

**apocope**
A new word coined by dropping one or more syllables from the last part of the multisyllable word, for example, “kilo” for “kilogram.”

**portmanteau word**
A new word coined by combining the parts of two or more words: “smog” coined from “smoke” and “fog.”

**individual**
A single microbial cell or spore.

**clone**
In microbiology, a population of cells derived from a single parent cell or individual.

**isolate**
In microbiology, probably synonymous as a noun with “clone” or with “strain.”

**strain**
The descendants (progeny) of a single isolation (clone or isolate) in pure culture.

**culture**
A population of microbial cells in a given place at a given time.

**substrain**
A term that can be applied to separate clones and their progeny obtained in a variety of applied ways from a culture of a particular strain.
Other definitions related to the designations of strains, and which can be used to more precisely modify them, can be found in the International Code of Nomenclature of Bacteria and from other sources (1, 12).

Progress in genetics, genetic engineering, and recombinant DNA technology over the past few years places additional responsibilities on microbiologists so far as precise and proper designations for the microbial materials with which they are working are concerned. Such designations range from gene symbol designations to those concerned with nomenclature of bacterial plasmids (18, 19).

Because the Russians use either English or Cyrillic letters in either English or Russian language publications, acronyms, sigla, and abbreviations for the Russian collections are given in both languages. Where possible, the titles of non-U.S. organizations are translated into English. Thus, the combination of letters originally based on the organization titles in the native languages may not seem to be based on the initial letter of each important component of the title.

Some collections have been abandoned for various reasons, yet their acronyms, sigla, or abbreviations remain in the scientific and patent literature and are included in the list. Some collections listed in the World Directory apparently have no known acronyms, sigla, or abbreviations; in coining one, directors of such collections are advised to study this list carefully to avoid duplication, which could lead to confusion. A number of the acronyms, sigla, and abbreviations listed herein are not included in the Acronyms and Initialisms Directory, a comprehensive listing of acronyms and initialisms covering many fields (3).

Literature Cited


<table>
<thead>
<tr>
<th>Acronyms, Sigla, or Abbreviations²</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AAS</strong></td>
<td>Academy of Agricultural Sciences, Sofia, Bulgaria.</td>
</tr>
<tr>
<td><strong>AB</strong></td>
<td>See ABBOTT.</td>
</tr>
<tr>
<td><strong>ABBOTT</strong></td>
<td>Abbott Laboratories, North Chicago, Ill. 60064 U.S.A.</td>
</tr>
<tr>
<td><strong>ABJ</strong></td>
<td>Association of Brewers of Japan, Tokyo, Japan.</td>
</tr>
<tr>
<td><strong>ABT</strong></td>
<td>See ABBOTT.</td>
</tr>
<tr>
<td><strong>ACAD</strong></td>
<td>E. C. Smith Herbarium, Acadia University, Wolfville, Nova Scotia, Canada.</td>
</tr>
<tr>
<td><strong>ACC</strong></td>
<td>Akers Culture Collection of Imperial Chemical Industries, Ltd., Alderly Park, Macclesfield, Cheshire, England or Welwyn, Hertfordshire, England or Imperial Chemical Industries Limited, London, England. (Formerly BRL or ARL.)</td>
</tr>
<tr>
<td><strong>ACM</strong></td>
<td>Archive of Microbial Strains, National University of Tecuman, S.M. Tecuman, Argentina, S.A.</td>
</tr>
<tr>
<td><strong>ACR</strong></td>
<td>Department of Bacteriology, University of Wisconsin, Madison, Wis. 53706 U.S.A.</td>
</tr>
<tr>
<td><strong>ACRIC</strong></td>
<td>Agricultural College of Research Institute, Coimbatore, India.</td>
</tr>
<tr>
<td><strong>ACST</strong></td>
<td>Advisory Committee on the Application of Science and Technology to Development (ECOSOC).</td>
</tr>
<tr>
<td><strong>ACTU</strong></td>
<td>Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113 Japan. See FAT and ATU.</td>
</tr>
<tr>
<td><strong>AECU</strong></td>
<td>Agricultural Experiment Station, New York College of Agriculture, Cornell University, New York, N.Y. 10001 U.S.A.</td>
</tr>
<tr>
<td><strong>AHRC</strong></td>
<td>Arctic Health Research Center, Anchorage, Alaska.</td>
</tr>
<tr>
<td><strong>AHTS</strong></td>
<td>Abeno Higher Technical School, Osaka, Japan.</td>
</tr>
<tr>
<td><strong>AHU</strong></td>
<td>Laboratory of Culture Collection of Microorganisms, Faculty of Agriculture, Hokkaido University, Nishi-9-chôme, Kita-9-jo, Sapporo City, Japan.</td>
</tr>
<tr>
<td><strong>AID</strong></td>
<td>Agency for International Development.</td>
</tr>
<tr>
<td><strong>AIMS</strong></td>
<td>See IAMS.</td>
</tr>
<tr>
<td><strong>AIU</strong></td>
<td>Faculty of Agriculture, Iwate University, Osaka, Japan.</td>
</tr>
</tbody>
</table>

²Use of single letters, such as "A," "B," "S," is not recommended because single letters often are used informally in laboratories to designate genera: "A" for "actinomycete," "B" for "bacterium" or "Bacillus," "S" for Saccharomyces or Streptomyces, "P" for Penicillium. Three or four letters comprising the acronym, sigla, or abbreviation would be preferable and most convenient.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AKMI</td>
<td>Department of Technical Microbiology, August Kirchenstein Institute of Microbiology, Latvian Academy of Sciences, 55-Kleisti, Riga, Latvia.</td>
</tr>
<tr>
<td>AKU</td>
<td>Faculty of Agriculture, Kyoto University, Kyoto, Japan.</td>
</tr>
<tr>
<td>AL</td>
<td>Department of Biochemistry, Research Division, Abbott Laboratories, North Chicago, Ill. 60064 U.S.A.</td>
</tr>
<tr>
<td>AMC</td>
<td>Walter Reed Army Medical Center, 6825 16th St. N.W., Washington, D.C. 20013 U.S.A. (Formerly Army Medical Department Research and Graduate school or Army Medical Corp).</td>
</tr>
<tr>
<td>AMCY</td>
<td>American Cyanamid Co., Lederle Division, Pearl River, N.Y. 10965 U.S.A. See LED.</td>
</tr>
<tr>
<td>AMD</td>
<td>Agricultural Microbiology Division, Ministry of Agriculture, University Street, Orman, Giza, United Arab Republic.</td>
</tr>
<tr>
<td>AMERICAN CYANAMID</td>
<td>American Cyanamid Company, New York, N.Y. 10001 U.S.A. See also Lederle.</td>
</tr>
<tr>
<td>AMIF</td>
<td>American Meat Institute Foundation, Chicago, Ill. 60607 U.S.A.</td>
</tr>
<tr>
<td>AMNF</td>
<td>American Museum of Natural History, Central Park West and 79th Street, New York, N.Y. 10024 U.S.A.</td>
</tr>
<tr>
<td>AMP</td>
<td>Australian Mycological Panel. (Formerly Aust. or SN.)</td>
</tr>
<tr>
<td>AMRCC</td>
<td>FAO/WHO International Reference Centre for Animal Mycoplasmas, Institute for Medical Microbiology, University of Aarhus, DK-8000 Aarhus C. Denmark. Also AMRC.</td>
</tr>
<tr>
<td>AMS</td>
<td>Army Medical School, Japan (defunct).</td>
</tr>
<tr>
<td>ANRL</td>
<td>Australian National Reference Laboratory in Medical Mycology, The Institute of Medical Research, The Royal North Shore Hospital of Sydney, St. Leonards, N.S.W. 2065 Australia.</td>
</tr>
<tr>
<td>ANU</td>
<td>Faculty of Agriculture, Niigata University, Japan.</td>
</tr>
<tr>
<td>AOU</td>
<td>Faculty of Agriculture, Okayama University, Okayama, Japan.</td>
</tr>
<tr>
<td>APQS</td>
<td>Yokohama Animal and Plant Quarantine Station, M.A.F., Kanagawa, Japan.</td>
</tr>
<tr>
<td>ARCH</td>
<td>Antibiotics Research Center, Hindustan Antibiotics, Ltd., Pimpri, Poona District, India. See HACC.</td>
</tr>
<tr>
<td>ARI (АРИ)</td>
<td>Antibiotics Research Institute, Moscow, U.S.S.R. Also USSR, ARI.</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
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<tr>
<td>ARIN</td>
<td>Nippon Agricultural Research Institute, Tokyo, Japan. Also RAJ.</td>
</tr>
<tr>
<td>ARL</td>
<td>See ACC.</td>
</tr>
<tr>
<td>ARMOUR</td>
<td>Armour and Co., Chicago, Ill. 60680, U.S.A.</td>
</tr>
<tr>
<td>ASCA</td>
<td>Department of Agricultural Botany, Faculty of Agriculture, Ain Shams University, Shoubra El Khaima, United Arab Republic.</td>
</tr>
<tr>
<td>ASRI</td>
<td>Akimov State Research Institute.</td>
</tr>
<tr>
<td>ASS</td>
<td>Agricultural Scientific Services, Department of Agriculture and Fisheries for Scotland, East Craigs, Edinburgh, Scotland.</td>
</tr>
<tr>
<td>ATCC</td>
<td>American Type Culture Collection, 12301 Park-lawn Drive, Rockville, Md. 20852 U.S.A. (Formerly at 2112 M Street, NW., Washington, D.C. 20037 U.S.A.)</td>
</tr>
<tr>
<td>ATU</td>
<td>See ACTU.</td>
</tr>
<tr>
<td>AY</td>
<td>Culture Collection, Ayerst Research Laboratories, 1025 Laurentian Blvd., Saint-Laurent, Quebec, Canada.</td>
</tr>
<tr>
<td>B</td>
<td>Botanical Museum, Berlin-Dahlem, Germany. See CBS.</td>
</tr>
<tr>
<td>BAARN/DELFT</td>
<td>Bulgarian Academy of Sciences, Sofia, Bulgaria.</td>
</tr>
<tr>
<td>BAS</td>
<td>W. Vischer Collection, Botanical Institute, University of Basel, Basel, Switzerland.</td>
</tr>
<tr>
<td>BASEL</td>
<td>Department of Forestry, Institute of Botany, Faculty of Agriculture, University of Tokyo, Toyko, Japan.</td>
</tr>
<tr>
<td>BATU</td>
<td>Biological Institute for Soil and Forestry, Kiel-Kitzburg, Germany.</td>
</tr>
<tr>
<td>BBI</td>
<td>Biological National Institute for Soil and Forestry, Berlin-Dahlem, Germany.</td>
</tr>
<tr>
<td>BCMT</td>
<td>Brazilian Collection of Microbial Types, Laboratory of Parasitology, National Faculty of Medicine, University of Brazil, Rio de Janeiro, Brazil, S.A.</td>
</tr>
</tbody>
</table>
BDC  Biology Department, Massachusetts Institute of Technology, Cambridge, Mass. 02139 U.S.A. Also ITC.

BDUN  Botany Department, University of Nottingham, Nottingham, England.


BEN MAY LAB  Ben May Laboratory for Cancer Research, University of Chicago, 950 E. 59th St., Chicago, Ill. 60637 U.S.A.

BFQM  Bacterioteca, Faculty of Chemistry, Montevideo, Uruguay, S.A.

BGSC  Bacillus Genetic Stock Center, The Ohio State University, Department of Microbiology, 484 West 12th Avenue, Columbus, Ohio 43210 U.S.A. See also WHO/CCBC.

BI  Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A. Now at Department of Botany, University of Texas, Austin, Tex. 78712 U.S.A.

BIB  Botanical Institute, Berne, Switzerland.

BIG  Botanical Institute, Ernst-Moritz-Arndt University, Grimmerstrasse 88, Greifswald, East Germany. Also BIU and BIU BIG.

BIHM  Botanical Institute, Hanover Munden, Germany.

BIL  Botanical Institute, Karl Marx University, Talstrasse 33, 701, East Germany.

BIN  (БИН)  V. L. Komarova Botanical Institute, 197022 Leningrad, P-22, ul. prof. Popova, 2, U.S.S.R.

BIOVETA  An agency producing veterinary biologicals, Czechoslovakia.

BIRA  British Leather Research Association, Egham, Surrey, England (probable error; see BLRA).

BIU  See BIG.

BIU BIG  See BIG.

BKM  (БКМ)  Department of Type Cultures, Institute of Microbiology, Academy of Sciences, Moscow, U.S.S.R. or All-Union Collection of Microorganisms, Moscow, Profsojuznaja 7, B 133, U.S.S.R. Also BKMF or INMI.

BKMF  (БКМФ)  See BKM.


BL  See BRISTOL.

BLUS  Baljvaxtlaboratoriet Lantbruksholan, Uppsala, Sweden.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>BMI</td>
<td>Battelle Memorial Institute.</td>
</tr>
<tr>
<td>BNFS</td>
<td>B.N.F. Scheme, Poona-5, India.</td>
</tr>
<tr>
<td>BO</td>
<td>See BOOTS.</td>
</tr>
<tr>
<td>BOOTS, BO or Boots</td>
<td>Culture Collection, Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Daleside Road, Nottingham, England. See also BPD and CUB.</td>
</tr>
<tr>
<td>BPD</td>
<td>Research Department, Boots Pure Drug Company, Ltd., Oakfields Road West, Bridgford, Nottingham, England. See BOOTS and CUB.</td>
</tr>
<tr>
<td>BPI</td>
<td>Type Culture Collection, Burma Pharmaceutical Industry, Industrial Development Corporation, Ministry of Industry, BPI Road, Gyogon, Rangoon, Burma.</td>
</tr>
<tr>
<td></td>
<td>or The National Fungus Collections (formerly Crops Research Division, Plant Industry Station). Now Plant and Entomological Sciences, Beltsville Agricultural Research Center, ARS, USDA, Beltsville, Md. 20705 U.S.A.</td>
</tr>
<tr>
<td>BPSP-BK</td>
<td>Beneficencia Portugesa, San Pablo, Brazil, S.A.</td>
</tr>
<tr>
<td>BR</td>
<td>Jardin Botanique (Rijksplantentuin), Brussels, Belgium.</td>
</tr>
<tr>
<td></td>
<td>or See BRISTOL.</td>
</tr>
<tr>
<td>BRISTOL</td>
<td>Research Division, Bristol Laboratories, Division of Bristol-Meyers Co., P.O. Box 657, Syracuse, N.Y. 13201 U.S.A.</td>
</tr>
<tr>
<td>BRL</td>
<td>See ACC. (Formerly Butterwick Research Laboratories, Imperial Chemical Industries, Ltd., Welwyn, Herts, England.)</td>
</tr>
<tr>
<td>BS (5C)</td>
<td>Botanical Institute, Academy of Sciences, Moscow, U.S.S.R.</td>
</tr>
<tr>
<td>BS</td>
<td>Institute of Microbiology, University of Brno, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td></td>
<td>or Institute of Microbiology, Masaryk University, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td></td>
<td>or Department of Microbiology, Faculty of Natural Sciences, J. E. Purkyne University, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td>BSCH</td>
<td>Institute of Bacteriology of Chile, Santiago, Chile, S.A.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>BSM</td>
<td>BSM Culture Collection, Botany Department, University of Allahabad, Allahabad, India.</td>
</tr>
<tr>
<td>BSOU</td>
<td>Department of Biology, Faculty of Science, Osaka University, Osaka, Japan.</td>
</tr>
<tr>
<td>BSRI</td>
<td>Brewing Science Research Institute, Tokyo, Japan. <em>May also be same as GIB or RIB.</em></td>
</tr>
<tr>
<td>BTCC</td>
<td>Bulgarian Type Culture Collection, Institute for State Control of Drugs. Bul. VI Azimov 26, Sofia, Bulgaria.</td>
</tr>
<tr>
<td>BTI</td>
<td>Boyce Thompson Institute for Plant Research, 1086 N. Broadway, Yonkers, N.Y. 10701 U.S.A.</td>
</tr>
<tr>
<td>BU or BÚ or Bú</td>
<td>Institute of Biology, Ceskoslovenska Academie Vid., Na cvicisti, Prague, 6, Czechoslovakia. <em>Also BÚČSAV or BÚČSAV (BÚ) or BÚ BÚČSAV.</em></td>
</tr>
<tr>
<td>BUCSAV</td>
<td>Braun University, Providence, R.I. U.S.A.</td>
</tr>
<tr>
<td>BUCSAV (BU)</td>
<td>See BU.</td>
</tr>
<tr>
<td>BU BU BUCSAV</td>
<td>See BU.</td>
</tr>
<tr>
<td>BYIC</td>
<td>Berkeley Yeasts Laboratory, Berkeley, Calif. 94701 U.S.A.</td>
</tr>
<tr>
<td>C</td>
<td>Botanical Museum and Herbarium, Copenhagen, Denmark. <em>or</em> Ciba Pharmaceutical Products, Inc., Summit, N.J. 07901 U.S.A. and Basle, Switzerland.</td>
</tr>
<tr>
<td>CAES</td>
<td>Chiba Prefecture Agricultural Experiment Station, Chiba, Japan. <em>or</em> Chugoku Agricultural Experimental Station, Himeji, Japan.</td>
</tr>
<tr>
<td>CAMBR</td>
<td>See CCAP.</td>
</tr>
<tr>
<td>CANAD-201</td>
<td>Division of Bacteriology and Dairy Research Science Service, Department of Agriculture, Ottawa, Canada.</td>
</tr>
<tr>
<td>CANAD-212</td>
<td>Division of Bioscience, National Research Council, Ottawa, Canada.</td>
</tr>
<tr>
<td>CANADA 212 A</td>
<td>See PRL.</td>
</tr>
<tr>
<td>CAPM</td>
<td>Collection of Animal Pathogenic Microorganisms, Research Institute of Veterinary Medicine, Brno-Medlánky, Czechoslovakia.</td>
</tr>
<tr>
<td>CASE</td>
<td>Case Laboratories, Chicago, Ill. 60601 U.S.A.</td>
</tr>
<tr>
<td>CB</td>
<td>Collection of Basidiomycetes, Institute of Microbiology, Czechoslovak Academy of Sciences, Prague-Krč, Budějovická, Czechoslovakia.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
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</tr>
<tr>
<td>CBLB</td>
<td>Collection of Bacteriophages and Lysogenic Bacteria, Institute of Biophysics, Czechoslovak Academy of Sciences, Královpolská 135, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td>CBRS</td>
<td>Coffee Board Research Station, Mysore, India.</td>
</tr>
<tr>
<td>CBS</td>
<td>Centraalbureau voor Schimmelcultures, Oosterstraat 1, Baarn, Netherlands. Also BAARN/DELFT.</td>
</tr>
<tr>
<td>CBSC</td>
<td>Carolina Biological Supply Company, Elon College, N.C. 27244 U.S.A.</td>
</tr>
<tr>
<td>CC</td>
<td>CSIRO Division of Plant Industry, Canberra City, A.C.T., Australia.</td>
</tr>
<tr>
<td>CCAP</td>
<td>Culture Centre of Algae and Protozoa, Botany School, University of Cambridge, 36 Storey's Way, Cambridge, CB3 ODT England. See also CAMBR and CU.</td>
</tr>
<tr>
<td>CCBC</td>
<td>Collaborating Center for Biological Control, Ohio State University, Columbus, Ohio 43210 U.S.A.</td>
</tr>
<tr>
<td>CCEB</td>
<td>Culture Collection of Entomogenous Bacteria, Department of Insect Pathology, Institute of Entomology, Institute of Biology, Czechoslovak Academy of Sciences, Flemingovo 2, 16609 Prague 6, Czechoslovakia.</td>
</tr>
<tr>
<td>CCF</td>
<td>See CCFP.</td>
</tr>
<tr>
<td>CCFP</td>
<td>Culture Collection of Fungi, Department of Botany, Faculty of Sciences, Charles University, Benátská 2, Prague 2, Czechoslovakia.</td>
</tr>
<tr>
<td>CCH</td>
<td>National Sanatorium, Chubu Central Hospital, Obu, Japan.</td>
</tr>
<tr>
<td>CCM</td>
<td>Czechoslovak Collection of Microorganisms, J. E. Purkyně University, tříd Obrónčů Miru 10, Brno, Czechoslovakia. or Collection of Microbial Cultures, Faculty of Pharmacy and Biochemistry, Junin 954-IV Piso, Buenos Aires, Argentina, S.A. Also see MDB and PU.</td>
</tr>
<tr>
<td>CCMDB</td>
<td>Culture Collection, Microbiology Department, Faculty of Science, J. E. Purkyně University, tříd Obrónčů Miru 10, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td>CCMTC</td>
<td>Center of Collection of Microbial Types of Czechoslovakia, Department of Parasitology, Charles IV University, Prague, Czechoslovakia.</td>
</tr>
<tr>
<td>CCPY</td>
<td>Laboratory for Mycological Research, Faculty of Medicine, Comenius University, Mickiewicza 13, Bratislava, Czechoslovakia.</td>
</tr>
<tr>
<td>CCRUAR</td>
<td>Department of Soil Science, Agricultural College, Alexandria University, Chatby, Alexandria, United Arab Republic.</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
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</tr>
<tr>
<td>CCTCC</td>
<td>Committee of Chinese Type Culture Collections, Shanghai, China.</td>
</tr>
<tr>
<td>CCTM</td>
<td>Centre de Collections de Types Microbiens, 19 Avenue César-Roux, Lausanne, Switzerland. or Center of Microbial Types, Lille, France.</td>
</tr>
<tr>
<td>CCUPB</td>
<td>Culture Collection, Utrecht Pays-Bas, Netherlands.</td>
</tr>
<tr>
<td>CCY</td>
<td>Institute of Chemistry of the Czechoslovak Academy of Sciences, Dúbravská cesta, Bratislava, Czechoslovakia. Also CHISAV. or Czechoslovak Collection of yeasts. Institute of Chemistry of the Slovak Academy of Sciences, Dúbravská cesta, Bratislava, Czechoslovakia.</td>
</tr>
<tr>
<td>CDA</td>
<td>See CDAO.</td>
</tr>
<tr>
<td>CDAO</td>
<td>Canadian Department of Agriculture, Ottawa, Ontario, Canada. Also CDA.</td>
</tr>
<tr>
<td>CDC</td>
<td>Centers for Disease Control or Communicable Disease Center, United States Public Health Service, 1600 Clifton Rd. N.E., Atlanta, Ga. 30333 U.S.A. Also NCDC or CDC-RH.</td>
</tr>
<tr>
<td>CDC-RH</td>
<td>See CDC.</td>
</tr>
<tr>
<td>CEB</td>
<td>Centre d'Etudes du Bouchet, Le Bouchet, France.</td>
</tr>
<tr>
<td>CECT</td>
<td>Spanish Collection of Type Cultures, Department of Microbiology, Faculty of Science, Salamanca, Spain. Also CSIC.</td>
</tr>
<tr>
<td>CEFAV</td>
<td>Center of Enterobacteria, Agronomic and Veterinary Faculty, University of Buenos Aires, Buenos Aires, Argentina, S.A.</td>
</tr>
<tr>
<td>CEFC</td>
<td>Central Experimental Farm, Ottawa, Ontario, Canada.</td>
</tr>
<tr>
<td>CEMA</td>
<td>Experimental Farm of Mandioca, Azvedo, Brazil, S.A.</td>
</tr>
<tr>
<td>CFMR</td>
<td>Center for Forest Mycology Research, Forest Products Laboratory, Forest Service, USDA, P.O. Box 5130, North Walnut Street, Madison, Wis. 53705 U.S.A.</td>
</tr>
<tr>
<td>CHARLES</td>
<td>Microbiological Institute of Charles University, Prague, Czechoslovakia.</td>
</tr>
<tr>
<td>CHISAV</td>
<td>See CCY.</td>
</tr>
<tr>
<td>CHPHI</td>
<td>Chemical Pharmaceutical Research Institute, Sofia, Bulgaria.</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
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<tr>
<td>--------------</td>
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</tr>
<tr>
<td>Christen</td>
<td>H.R. Christen Collection, Winterthur, Switzerland.</td>
</tr>
<tr>
<td>CI</td>
<td>Carnegie Institute, Cold Spring Harbor, Long Island, N.Y. 11101 U.S.A. Also CIW.</td>
</tr>
<tr>
<td>CIAM(L)</td>
<td>All-Union Scientific Research Institute of Agricultural Microbiology, Gerzen Street, 42, Leningrad, U.S.S.R.</td>
</tr>
<tr>
<td>CIB</td>
<td>Centrul Experimental de Ingrözäminte Bacteriene, Bucharest, Romania.</td>
</tr>
<tr>
<td>CIH</td>
<td>Central Institute of Hygiene, Ankara, Turkey.</td>
</tr>
<tr>
<td>CIMI</td>
<td>Center of Industrial Microbiological Investigations, National Institute of Industrial Technology, Buenos Aires, Argentina, S.A.</td>
</tr>
<tr>
<td>CIOMS</td>
<td>Council for International Organizations of Medical Sciences.</td>
</tr>
<tr>
<td>CIOS</td>
<td>International Council for Scientific Organization.</td>
</tr>
<tr>
<td>CIP</td>
<td>Collection of Microorganisms of the Pasteur Institute, Paris, France.</td>
</tr>
<tr>
<td>CIS</td>
<td>Chiba Serum Institute, Chiba, Japan.</td>
</tr>
<tr>
<td>CIUS</td>
<td>International Council of Scientific Unions.</td>
</tr>
<tr>
<td>CIW</td>
<td>See CI.</td>
</tr>
<tr>
<td>CJDA</td>
<td>Technical Research and Development Center of Japan Defense Agency, Setagaya-ku, Tokyo, Japan.</td>
</tr>
<tr>
<td>CL</td>
<td>Carlsberg Laboratory, Copenhagen, Denmark.</td>
</tr>
<tr>
<td>CLMR</td>
<td>Central Laboratory, South Manchuria Railway Company, Ltd., Darien, Manchuria. (No longer in existence.)</td>
</tr>
<tr>
<td>CLV</td>
<td>Central Vaud Dairy, Lausanne, Switzerland.</td>
</tr>
<tr>
<td>CM</td>
<td>Carnegie Institute, Pittsburgh, Pa. 15213 U.S.A.</td>
</tr>
<tr>
<td>CMAIRA</td>
<td>Collection of Agricultural Microorganisms, Institute of Agricultural Research, Ministry of Agriculture, Prague, Czechoslovakia.</td>
</tr>
<tr>
<td>CMBA</td>
<td>Mycology Center, Faculty of Medical Science, Buenos Aires, Argentina, S.A.</td>
</tr>
<tr>
<td>CMI</td>
<td>Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey, TW9 3AF England. (Formerly Imperial Bureau of Mycology, Imperial Mycological Institute.) See IMI and CMRI.</td>
</tr>
<tr>
<td>CMIIM</td>
<td>Collection of Industrial Microorganisms, Institute of Mycology, Prague, Czechoslovakia.</td>
</tr>
<tr>
<td>CMRI</td>
<td>Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. See Hankey and CMI.</td>
</tr>
<tr>
<td>CMT</td>
<td>Center of Soil Mycology, Torino, Italy.</td>
</tr>
<tr>
<td>CNBP</td>
<td>Collection Nationale de Bacteries Phytopathogenes, INRA, Angers, France.</td>
</tr>
</tbody>
</table>
CNCM Collection Nationale de Cultures de Microorganismes. Institut Pasteur, 28 Rue du Docteur Roux, 75724 Paris, Cedex 15, France. See also IP.

CNU Collection of Newcastle University Department of Microbiology, The Medical School, University of Newcastle, Newcastle-upon-Tyne, NE1 7RU, England.

CODATA Committee on Data for Science and Technology.

COH Research Institute for the Fermentation Industry, Enzymology and Technical Microbiology, Germany.

COMAMI Collection of Agricultural, Marine and Industrial Microorganisms, Institute of Agricultural and Technical Microbiology, E. de Nicola, Sessari, Italy.

COMSOL Commercial Solvents Corporation, Terre Haute, Ind. 47808 U.S.A.

CORNELL Department of Plant Pathology, Cornell University, Ithaca, N.Y. 14850 U.S.A.

COSTED Committee on Science and Technology in Developing Countries.

CPBG Commonwealth Bureau of Plant Breeding and Genetics. School of Agriculture, Cambridge, England. See also IPBD.


CPMIPH Collection of Pathogenic Microorganisms, Institute of Public Hygiene, Prague, Czechoslovakia.

CRB Formerly Crops Research Division, now Plant and Entomological Sciences, Beltsville Agricultural Research Center, ARS, USDA, Beltsville, Md. 20705 U.S.A.

CRC Cholera Research Center, 3 Kyd Street, Calcutta 16, India.

CRIFI Central Research Institute of Food Industry.

CRIPP Department of Microbiology, Research Institute of Cereal and Technical Plants, Bulev. Ionlo- nescu dela Brod No. 8, Bucuresti-Boneosa, Romania. (Now in Czechoslovakia.)

CRL Central Research Laboratory, Kasauli, Pendjab, India.

CS Centrallstelle, Netherlands.

CSC See COMSOL.

CSIC See CECT.
CSIR
Council for Scientific & Industrial Research, Pretoria, Union of South Africa.

or
Council of Scientific and Industrial Research, Poona, India.

CSIRO
Commonwealth Scientific and Industrial Research Organization, Division of Food Preservation and Transport, Homebush, N.S.W., Australia.

or
Division of Soils, Soil Microbiology Culture Collection, Glen Osmond, South Australia.

CSLPA
Commonwealth Serum Laboratory, Parkeville, Victoria, Australia.

CTF
Technical Center of Farmacobiology. Madrid, Spain.

CU
Culture Collection of Algae and Protozoa, Botany School, Cambridge University, Cambridge, England. See also CAMBR and CCAP.

or
Cornell University, Ithaca, N.Y. 14850 U.S.A.

or
Chiba University, Chiba, Japan.

CUB
Actinomycete Culture Collection, School of Applied Biology, University of Bradford, Bradford, Yorkshire 7, BD7 1DP England. Also maintains some cultures previously maintained at Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Nottingham, England.

CUP
Department of Plant Pathology, Cornell University, Ithaca, N.Y. 14850 U.S.A.

CVL
Central Veterinary Laboratory, Ministry of Agriculture, Fisheries and Food (New Haw FAO/WHO Brucellosis Center), Weybridge, Surrey, England.

CYCC
Czechoslovakian Yeast Culture Collection.

CZAA
Czechoslovak Academy of Agricultural Sciences, Prague, Czechoslovakia.

CZAS
Czechoslovak Academy of Agricultural Sciences, Prague, Czechoslovakia.

D
A siglum in U.S. Patent 3,930,946 January 6, 1976, possibly referring to "diploid" also Medical Research Council Microbial Systematics Unit Collection, Leicester University, Leicester, LE1, 7RH England.
DABIS  Former Bureau of Plant Industry, Soil and Agricultural Engineering, now Plant and Entomological Sciences, Beltsville Agricultural Research Center, ARS, USDA, Beltsville, Md. 20705  U.S.A.

DACF  Department of Agriculture, Canada.

DAIMB  National Institute of Biology, Department of Agriculture, Argentina, S.A.

DAOM  Mycological Herbarium or National Mycological Herbarium or Ottawa Mycology, Division of Botany and Plant Pathology or Plant Research Institute, Research Branch, Department of Agriculture, Ottawa, Ontario, Canada.

DASA  Department of Agriculture and Stock, Brisbane, Australia.

DB  Division of Bacteriology and Dairy Research, Department of Agriculture, Ottawa, Ontario, Canada.

DBAU  Department of Bacteriology, The American University, Beirut, Lebanon.

DBCEFC  Department of Botany, Central Experimental Farm, Ottawa, Ontario, Canada.

DBCO  Department of Bacteriology, University of Oregon, Corvallis, Oreg. 97330  U.S.A.

DBFU  Department of Bacteriology, Faculty of Medicine, Fouad Ier, University Ksar-el-Aini, Le Caire, Cairo, United Arab Republic.

DBLMC  Department of Botany, R. G. Lar Medical College, Calcutta, India.

DBM  An acronym appearing in U.S. Patent 4,186,252 (January 29, 1980) and possibly referring to Vysoka Skola Chemicko-Technologicka, Prague, Czechoslovakia.

DBPU  Department of Biological Sciences, Purdue University, Lafayette, Ind. 47902  U.S.A.

DBUN  Department of Bacteriology, University of Nebraska, Lincoln, Nebr. 68501  U.S.A.

DBUNC  Department of Botany, University of North Carolina, Chapel Hill, N.C. 27514  U.S.A.

DBUP  Department of Biology, Medical Faculty, Palacky University, Olomouc 5, Czechoslovakia.

DFP  Division of Forest Products, Melbourne, Australia.


DHI  Former Dairen Hygienic Institute.

DIA  Institute of Animal Industry, Brazil, S.A.
DIFCO  Difco Laboratories, Detroit, Mich. 48226 U.S.A.
DINR  Section of Natural Resistance, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
DIPC  Section of Cultivable Pathogenic Fungi, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
DMG  Department of Microbiology, University of Guelph, Guelph, Canada.
DMIA  Department of Microbiology, Institute of Agriculture, Héverle, Belgium.
DMUC  Department of Microbiology, University of Concepción, Casillo 272, Concepción, Chile, S.A.
DMUR  Department of Mycology, University of Recife, Recife, Brazil, S.A.
DPP  Department of Plant Pathology, Institute of Experimental Botany, Czechoslovak Academy of Sciences, Na Karlovce 1, Prague 6, Czechoslovakia.
DRL(M)  Kanpur Culture Collection, Defense Research Laboratory (Materials), P.B. 320, Kanpur, Uttar Pradesh, India.
DS  An acronym of unknown derivation. Also Rhone-Poulenc. See RP.
DSIR  Department of Scientific and Industrial Research, Auckland, New Zealand. Also DSIRNZ. or Department of Scientific and Industrial Research, England.
DSL  Defence Standard Laboratories, Australia.
DSM  German National Depository of Microorganisms-Central Depository, Grisebachstr. 8, Göttingen, 34, Federal Republic of Germany.
DUSM  School of Medicine, Duke University, Durham, N.C. 27701 U.S.A.
EAN  National Agronomic Station, Lisbon, Portugal.
EANSP  National Agronomic Station, Savanac, Portugal.
EAP  Piracicaba School of Agriculture, San Pablo, Brazil, S.A.
ECA  Department of General Microbiology, College of Agriculture, University of Edinburgh, West Mains Rd., Edinburgh 9, Scotland.
ECOSOC  Economic and Social Council of the United Nations.
EEAG  Experiment Station of Arroz, Gravatai, Brazil, S.A.
EECC  Central Experimental School, Castelar, Argentina, S.A.
EEO
Experiment Station, Osorio, Brazil, S.A.
EEPT
Experiment Station of Pomiculture, Toquari, Brazil, S.A.
EESSM
Experiment Station of Silviculture, Santa Maria, Brazil, S.A.
EFA
Station of Agricultural Phytophathology, La Coruma, Spain.
EIAM (EIAM)
The Estonian Research Institute for Agriculture and Soil Improvement, Tallinn, Est. S.S.R.
EL
See Lilly.
ELF
Eli Lilly
Eli Lilly and Company, Indianapolis, Ind. 46206 U.S.A. See also Lilly.
EM
EMRS
East Malling Research Station, Kent, England.
ENAP
National School of Agriculture, La Molina, Apartado 456, Lima, Peru, S.A.
ENCBE
Herbarium of the National Polytechnic Institute, Escula National de Ciencias Biologicas, I.P.N., Apartado Postal 26-378, Mexico, D.F.
ENIIZM (ЕНИИЗМ)
Estonian Scientific Research Institute of Agriculture and Soil Improvement, g. Saku, Khar'ysuskii r-n. Est. S.S.R.
ENSCU
National School of Health, University City, Madrid, Spain.
EPA
Environmental Protection Agency, 401 M Street SW., Washington D.C. 20460 U.S.A.
ERDC
Engineering Research and Development Center, U.S. Army, Fort Belvoir, Va. 22060 U.S.A.
ESA
Vicsa Higher School of Agronomy, Minas Gerais, Brazil, S.A.
ESAH
National Institute of Animal Health, Tokyo, Japan. See NIAH.
ESAP
Luiz de Queiroz Higher School of Agriculture, Piracicaba, San Pablo, Brazil, S.A.
National Agronomic Station, Sacavém, Portugal.
ETAV
Technical School of Agriculture, Viamão, Brazil, S.A.
ETH
Institute for Special Botany, Conferated Technical University, Universitätsstr. 2, Zürich 6, 8000, Switzerland. Also ETH-M and ETHZ.
ETH-M
See ETH.
ETHZ
See ETH.
ETU
Faculty of Engineering, Toyko University, Tokyo, Japan.
EVEC
Experiment Station of Viticulture and Enology, Caxias do Sul, Rio Grande de Sur, Brazil, S.A.
EVEV  Villafranca del Penades Station of Viticulture and Enology, Spain.
EVOWG  Confederated Research Institute for Fruit, Wine and Horticulture, Wädenswil, Switzerland. Also EVWS.
EVWS  See EVOWG.

FAHU  Faculty of Agriculture, Hokkaido University, Sapporo, Japan.
FAKU  Faculty of Agriculture, Kyushu University, Fukuoka, Japan.
FAO  Food and Agriculture Organization of the United Nations, Roma, Italy.
FARMIT  Research Laboratories, Farmitalia, Milano, Italy.
FAT  See ACTU and ATU.
FAU  Faculty of Agriculture, Utsunomiya University, Togichi, Japan.
FAUK  Faculty of Agriculture, University of Kyoto, Kyoto, Japan.
FAVBA  Agronomy and Veterinary Faculty, Buenos Aires, Argentina, S.A.
FBRI  Biochemical Research Institute, Kalevenkatu 56 B, Helsinki 18, Finland.
FCTU  Institute of Forest Chemistry, Department of Forest Products, Faculty of Agriculture, Tokyo University, Tokyo, Japan.
FCUTS  Department of Fermentation Chemistry, University of Technical Science, Prague, Czechoslovakia.
FDA  U.S. Food and Drug Administration, 7th and Jefferson Drive SW., Washington, D.C. 20204 U.S.A.
FEFQ  Fermentations and Enology, Faculty of Chemistry, Montevideo, Uruguay, S.A.
FEH  Experiment Station of Forestry of Hokkaido, Sapporo, Japan.
FERM  Fermentation Research Institute, Agency of Industrial Science & Technology, Ministry of International Trade & Industry. 5-2, Inage Higashi 4-chôme, Chiba, 280 Japan (FERM-P is acronym for patent deposition strains). Also FRI, FRIP, and FRAIST.
FES  Government (or National) Forest Experiment Station, M.A.F., 770-4, Shimomeguro, Meguro-oku, Tokyo, Japan.
FGSC  Fungal Genetics Stock Center, Humboldt State College Foundation, Arcata, Calif. 95521 U.S.A.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH</td>
<td>Farbwerken Hoechst, Atkiengesellschaft, Frankfurt/Main-Hoeschst, Germany. Also FHP.</td>
</tr>
<tr>
<td></td>
<td>or Farlow Library and Herbarium of Cryptogamic Botany, Harvard University, Cambridge, Mass. 02138 U.S.A.</td>
</tr>
<tr>
<td>FHP</td>
<td>See FH.</td>
</tr>
<tr>
<td>FHSP</td>
<td>Faculty of Hygiene, San Pablo, Brazil, S.A.</td>
</tr>
<tr>
<td>FI</td>
<td>Farmitalia Research Laboratories, Via Gracchi 35, 20146 Milano, Italy.</td>
</tr>
<tr>
<td>FIE</td>
<td>Tree Botany Institute, Eberswalde, East Germany.</td>
</tr>
<tr>
<td>FIL</td>
<td>Leningrad Pharmaceutical Institute, P-22, ul. Popova 14, Leningrad, U.S.S.R.</td>
</tr>
<tr>
<td>FIUG</td>
<td>Tree Botany Institute, University of Göttingen, Göttingen, Federal Republic of Germany.</td>
</tr>
<tr>
<td>FLAS</td>
<td>Herbarium, National Fungus Collections, Gainesville, Fla. 32604 U.S.A.</td>
</tr>
<tr>
<td>FLRM</td>
<td>Farmitalia Microbiological Research Laboratory, Milano, Italy.</td>
</tr>
<tr>
<td>FMJ</td>
<td>Faculty of Medicine, Juntendo University, Tokyo, Japan.</td>
</tr>
<tr>
<td>FMP</td>
<td>Faculty of Medicine, Paris, France.</td>
</tr>
<tr>
<td>FMSP</td>
<td>Mycology Laboratory, Faculty of Medicine, University of São Paulo, Caixa Postal 2921, São Paulo or San Pablo, Brazil, S.A.</td>
</tr>
<tr>
<td>FMT</td>
<td>Faculty of Medicine, University of Tokyo, Tokyo, Japan.</td>
</tr>
<tr>
<td>FPhP</td>
<td>Faculty of Pharmacy, Paris, France.</td>
</tr>
<tr>
<td>FPRL</td>
<td>Building Research Establishment, Princes Risborough Laboratory, Aylesbury, Buckinghamshire, England. (Formerly Forest Products Research Laboratories, Ministry of Technology.)</td>
</tr>
<tr>
<td>FQIA</td>
<td>Faculty of Industrial Chemistry and Agriculture, National University del Litoral, Santa Fé, Argentina, S.A.</td>
</tr>
<tr>
<td>FRAIST</td>
<td>Fermentation Research Institute, Agency of Industrial Science and Technology, Tokyo, Japan. See also FERM.</td>
</tr>
<tr>
<td>FRI</td>
<td>Food Research Institute, Ministry of Agriculture and Forestry, Tokyo, Japan. See also FERM.</td>
</tr>
<tr>
<td></td>
<td>or Research Institute for Refrigeration, Bratislava, Czechoslovakia.</td>
</tr>
<tr>
<td></td>
<td>or Forest Research Institute, Dehradum, India.</td>
</tr>
</tbody>
</table>
FRIP  Fermentation Research Institute Patent Collection, Fermentation Research Institute, Ministry of International Trade and Industry, Inage-higashi, Chiba, Japan. See also FERM.

FRL  Food Research Laboratory, Division of Food Research, CSIRO, Sidney, Australia. Also FRR.

FRR  See FRL.

FSK  Research Institute for Food Science, Kyoto University, Kyoto, Japan.

FSP  Faculty of Science, Paris, France.

FST  Faculty of Science, University of Tokyo, Tokyo, Japan. See also FS&T.

FS&T  Department of Food Science and Technology, University of California, Davis, Calif. 95616 U.S.A. See also UD and FST.

FUJI  Tokyo Laboratory, Fujisawa Pharmaceutical Industry, Ltd., 957-3, Nukui-Kita-machi, Koganei-city, Tokyo, Japan or 1-6, Kajimacho, 2-chôme, Yodogawa-ku, Osaka, 532, Japan.

FYU  Department of Fermentation Industries, Yamanashi University, 3-11, Takeda 4-chôme, Moto-ganagi-cho, Kofu-shi, Yamanashi-ken, 400 Japan.

GB  Chair of Microbiology, Faculty of Agronomic Sciences, Gembloux, Belgium.

GBE  Gumma Brewing Experiment Station, Maebashi, Japan.

GCMH  Mycological Herbarium of Ghana.

GCRI  Glasshouse Crops Research Institute, Littlehampton, Sussex, England.

or  Microbiology Department, Worthing Road, Rustington, Wittehampton, Sussex BN 16 3PU, England.

or  Virology Department and Virus Reference Collection, Worthing Road, Rustington, Wittehampton, Sussex BN 16 3PU, England.

Genf  Chodat Collection, Genf, Switzerland.

GESH  Government Experiment Station of Hygiene, Tokyo, Japan.

GI  Gades Institute, University of Bergen, Bergen, Norway.

GIB  Research Institute of Brewing, Tax Administration Agency, Takinogawa 2-6, Kita-ku, Tokyo 114, Japan. May be BSRI or RIB.
GIDUV
(ГИДуВ)
National Institute for Improvement of Medicine, 19000, ul. Saltykova-Shchedrina, 41, Leningrad, U.S.S.R.

GISK or GIKI
(ГИСК) or (ГИКИ)
National Institute for Standardization and Control of Medical Biological Preparations in the name of L. A. Taraseviya, Ministry of Public Health S.S.S.R., 121002, G-2, ul. Sivtsev Vrazhek, 41, Moscow, U.S.S.R. Also GKI.

GKI
(ГКИ)
See GISK.

GLAXO
Glaxo Research Ltd., Sefton Park, Stoke Poges, Buckinghamshire, England. See also GLMI.

GLH
G. L. Hennebert collection, Institute of Agronomy, Heverlee, Belgium.

GLMI
Glaxo Laboratories, Ltd., Greenford, Middlesex, England. See also GLAXO.

GM
Designation for cell cultures from Human Genetic Mutant Cell Repository, Institute for Medical Research, Copewood and Davis Streets, Camden, N.J. 08103 U.S.A.

GMB
Institute for General Microbiology, University of Bergen, Bergen Norway.

GRIF
Government Research Institute of Formosa. (Now defunct.)

GRO
Institute for Systematic Botany, Groningen, Netherlands.

GU
Applied Mycological Laboratory, College of Agriculture, Gifu University, Gifu, Japan.

GWU
George Washington University, Washington, D.C. 20037 U.S.A.

H
Botanical Museum, Helsinki, Finland.

HAC
Hyogo University of Agriculture, Sasayama, Japan. See also HACC.

HACC
Research Laboratories, Hindustan Antibiotics Ltd., Pimpri Poona, Maharashtra, 18, India. See also ARCH, also as HAC.

Hankey
Hankey Culture Collection, Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. Also Hankey HCC and HCC. (The Hankey Collection is no longer in existence.)

Hankey HCC
See Hankey.

HBL
The Hartley Botanical Laboratory, University of Liverpool, P.O. Box 147, Liverpool, L69 3BX England.

HCB
Herbarium of the Congo.

HCC
See Hankey.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCIO</td>
<td>Herbarium Cryptogamie Indiae Orientalis, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi, India.</td>
</tr>
<tr>
<td>HFES</td>
<td>Hiroshima Fermentation Experiment Station, Hiroshima, Japan.</td>
</tr>
<tr>
<td>HI</td>
<td>Haffkine Institute, Bombay, India.</td>
</tr>
<tr>
<td>HIM</td>
<td>Hygiene Institute and Medicinal Research Service, University of Marburg, Marburg, Germany.</td>
</tr>
<tr>
<td>HIPH</td>
<td>Hungarian Institute for Public Health.</td>
</tr>
<tr>
<td>HIR</td>
<td>Food and Fermentation Division, Hokkaido Prefectural Industrial Research Institute, Sapporo, Japan.</td>
</tr>
<tr>
<td>HISZ</td>
<td>Hygiene Institute, Salmonella Central, Hamburg 36, Federal Republic of Germany.</td>
</tr>
<tr>
<td>HLX</td>
<td>Atlantic Regional Laboratory, National Research Council of Canada, Halifax, Nova Scotia, Canada.</td>
</tr>
<tr>
<td>HMS</td>
<td>Hopkins Marine Station of Stanford University, Pacific Grove, Calif. 93950 U.S.A. Also HMSSU.</td>
</tr>
<tr>
<td>HMSSU</td>
<td>See HMS.</td>
</tr>
<tr>
<td>Hoechst</td>
<td>See FH.</td>
</tr>
<tr>
<td>Hoffmann</td>
<td>Hoffmann La Roche Inc., Nutley, N.J. 07110 U.S.A.</td>
</tr>
<tr>
<td>HPB</td>
<td>Food Directorate, Health Protection Branch, Health and Welfare Canada, Ottawa, Canada K1A 0L2.</td>
</tr>
<tr>
<td>HRIRMH</td>
<td>Walter and Eliza Hall Research Institute, Royal Melbourne Hospital, Melbourne, Australia.</td>
</tr>
<tr>
<td>HSLP</td>
<td>Saint Louis Hospital, Paris, France.</td>
</tr>
<tr>
<td>HUT</td>
<td>Department of Fermentation Technology, Faculty of Engineering, Hiroshima University, 2-8, Sendacho, 3-chôme, Senda-Machi, Hiroshima City, 730, Japan.</td>
</tr>
<tr>
<td>IAB</td>
<td>ICUS Abstracting Board.</td>
</tr>
<tr>
<td>IABH</td>
<td>Bello Horizonte Agronomic Institute, Minas Gerais, Brazil, S.A.</td>
</tr>
<tr>
<td>IAC</td>
<td>Campinas Agronomic Institute, San Pablo, Brazil, S.A.</td>
</tr>
<tr>
<td>IACOMS</td>
<td>International Advisory Committee on Marine Sciences.</td>
</tr>
<tr>
<td>IAE</td>
<td>Institute of Atomic Energy in the name of I.V. Kurchatova, 123098, D-98, Pl. Kurchatova, Moscow, U.S.S.R.</td>
</tr>
<tr>
<td>IAE (IAE)</td>
<td>Institute of Atomic Energy in the name of I.V. Kurchatova, 123098, D-98, Pl. Kurchatova, Moscow, U.S.S.R.</td>
</tr>
<tr>
<td>IAL</td>
<td>Adolfo Lutz Institute, São Paulo, Brazil, S.A.</td>
</tr>
<tr>
<td>IA Louvain</td>
<td>Agrónômy Institute, Louvain, Belgium.</td>
</tr>
</tbody>
</table>
IAM
Institute of Applied Microbiology, University of Tokyo, Mukogaoka 1-1-1 or 1-chōme Yayoi-cho, Bunkyo-ku, Tokyo, Japan.

IAMB
International Association of Microbiologists (superseded by IAMS).

IAMS
International Association of Microbiological Societies.

IAMUT
Faculty of Agriculture, Hokkaido University, Sapporo, Japan.

IARI
Indian Agricultural Research Institute, New Delhi, India.

IAUM
Institute of Agriculture, University of Minnesota, Minneapolis, Minn. 55455 U.S.A.

IAUR
Institute of Antibiotics, University of Recife, Recife, Pernambuco, Brazil, S.A.

IAW
Institute of Antibiotics, ul. Staroscińska 5, Warsaw 12, Poland.

IB
São Paulo Biological Institute, São Paulo, Brazil, S.A.

or
San Pablo Biological Institute, San Pablo, Brazil, S.A.

or
Institute of Biophysics, Czechoslovak Academy of Sciences, Královopolska 135, Czechoslovakia.

IBA
Asunción Bacteriological Institute, Asunción, Paraguay, S.A.

IBB
Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland.

IBCAS
Institute of Biology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

IBF
(ИБФ)

IBFI
(ИБФИ)

IBFM
(ИБФМ)
Institute of Biochemistry and Physiology of Microorganisms, Academy of Sciences, 142292, Moscow Oblast, Serpukhovskoi District, G. Pushchino-na-Oke, U.S.S.R.

IBG
Institute of Soil Fertility, Oosterweg 41, Haren, Groningen, Netherlands.

or
Botanical Institute, Geneva, Switzerland.
IBGH  Institute for Botany, Fermentation Physiology and Yeast Pure Culture of the Teaching and Investigations Establishment for Wine, Fruit, and Horticulture, Geisenheim am Rhein, Germany.

IBKH (ИБХ)  Institute of Biorganic Chemistry in the name of M. M. Shemyakina. 117312, ul. Vavilova, 32, V-312, Moscow, U.S.S.R.

IBL  Botanical Institute, Lisbon Faculty of Sciences, Lisbon, Portugal.

IB Lyon  Institute of Bacteriology, Lyon, France.

IBM  Laboratory of Mycology, Malbrán Bacteriological Institute, Vélez Sarsfield 563, Buenos Aires, Argentina, S.A. (Now known as National Institute of Microbiology.)

IBP  International Biological Program.

IBSC  Institute of Bacteriology, Santiago, Chile, S.A.

IBSIC  Institute of Biology and Serotherapy. Cajal Institute, Madrid, Spain.

IBSS  Institute of Bacteriology, Stockholm, Sweden.

IBUB  Botanical Institute, University of Basle, Basle, Switzerland.

IBSP  Butantan Institute, San Pablo, Brazil, S.A.

IBVV (ИВВВ)  Institute of Biology of Inland Seas. 152742, P/O. Borok, Nekoyaskii District, Yaroslavskoi Oblast, Borok, U.S.S.R.

IC  Institute "Dr. Cantacusino," Bucharest, Romania.

ICA  Laboratory of Microbiology, Section of Viticulture, Institute of Cercetari Agronomy, Bucharest, Romania.

ICAR  Institute of Cercetari Agronomy, Bucharest, Romania.

ICCC-1  First International Conference on Culture Collections, held in Tokyo, Japan, October 7-11, 1968.


ICIA  International Center of Information on Antibiotics, 32 Blvd. de la Constitution, Liège, Belgium.
ICI Nobel Div. Imperial Chemical Industries, Ltd., P.O. Box 25, Alderley Park, Macclesfield, Cheshire, England.

ICPB International Collection of Phytopathogenic Bacteria, Davis, Calif. 95616 U.S.A.

ICQ Institute of Clinical Surgery, Clinical Hospital, Buenos Aires, Argentina, S.A.

ICRO International Cell Research Organization.

ICST Imperial College of Science & Technology, London England.

ICSU International Council of Scientific Unions.

IDPL Indian Drugs and Pharmaceuticals, Ltd., Virbhadra (Rishikesh) U.P., New Delhi, India.

IEB Institute of Epidemiology and Bacteriology, Prague, Czechoslovakia.

IEBR Institute of Clinical Surgery, Spain.

or Spanish Institute of Radicicola Bacteriology, Barcelona, Spain.

IED Exequiel Dias Institute, Bello Horizonte, Minas Gerais, Brazil, S.A.

IEH Hokkaido Industrial Experiment Station, Sapporo, Japan.

IEIF Instituto Experimental de Investigaciones y Fomento Agricola Ganadero, Santa Fe, Argentina, S.A.

IEM Institute of Epidemiology and Microbiology, Srobarava 48, Prague 10, Czechoslovakia. 
Also IEMP, IEMUEM, and UEM.

(ИЕМ) Institute of Epidemiology and Microbiology named after Gamaley, Academy of Sciences, Moscow D-128, U.S.S.R.

IEMP See IEM.

IEMUEM See IEM.

IF Institute of Physics in the name of L. V. Kirenskogo SO, Academy of Sciences S.S.S.R., 660036, Adademgorodok, Krasnoyarsk 36, U.S.S.R. See also IFO.

(IF) (ИФ)

IFCC International Federation of Culture Collections (a subsidiary of IAMS but no longer in existence).

IFEU Estanzuela Phytotechnical Institute, Colonia, Uruguay, S.A.

IFG Institute for the Fermentation Industry, 1000 Berlin 65, Seestrasse 13, Federal Republic of Germany.
Research Institute for Chemobiodynamics, Chiba University, 9-1, Izumicho 3-chôme, Narashino, 275 Japan. (Formerly Institute for Food Microbiology, Chiba University) 113-4 Okubo, Narashino-city, Chiba or 3-9-1 Izumicho 3-chôme, Narashino-shi, Chiba-ken 275, Japan.

or

Institute for Microbiology, Humboldt University, Berlin, East Germany.

Institute for Fermentation, 54-4, Nishino-machi, Juso, Higashiyodogawa-kr or 4-54 Nishincho, Juso, Higashiyodogawa-ku or Juso Nishinomachi, Higashiyodogawa-ku or 17-85 Jusohonmach, 2-chôme, Yodogawa-ku, Osaka, 532 Japan. Also as IF.

Institut Francaise du Petrole, des Carburants et Lubricants, Rueil-Malmaison, France.

Center of Biology, Gulbenkian Institute of Science, Oeiras, Portugal.

Allied Biological Establishment for Soil and Forest Husbandry, Institute for Cereal, Oil Plants and Forage Plant Diseases, 2305 Keil-Kitsberg, Germany.

Irkutsk State University, 664000, ul. Sykhe-Batora, 5, Irkutsk, U.S.S.R.

Institute of Hygiene, Warsaw, Poland.

Institute of Hygiene, Basle, Switzerland.

Institute of Hygiene, Berne, Switzerland.

Institute of Hygiene, Budapest, Hungary.

Institute for Hygiene and Epidemiology, Srobarova 48, Prague 19, Czechoslovakia. Also as IEM.

Institute of Hygiene, Frankfort am Main, Germany.

Institute of Hygiene, Lausanne, Switzerland.

Laboratory of Mycology, Faculty of Medicine, Montevideo Institute of Experimental Hygiene, Avda. A. Ricaldoni 3051, Montevideo, Uruguay, S.A.

Institute of Hygiene, Milano, Italy.

Institute of Hygiene, Montevideo, Uruguay, S.A.

Institute of Hygiene, Perugia, Italy.

Institute of Hygiene, Pisa, Italy.

Institute of Hygiene, Rome, Italy.

Institute of Hygiene, Strasbourg, France.

Institute of Hygiene, University of the Philippines, Manila, Philippines.
IHUT Institute of Hygiene of the University, Istanbul, Turkey.

  or

Institute of Hygiene, University of Vienna, Vienna, Austria.

IID Institute for Infectious Diseases, University of Tokyo, 1-39 or 1-chôme Shiba-Shirokanedai-machi, Minato-ku or 4-chôme, 6 Shirogane-dia, Minato-ku, Tokyo, 108 Japan. (Formerly The Institute of Medical Science, University of Tokyo.)

IIEEM Indian Institute for Experimental Medicine, Calcutta, India.

IIET Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, ul. Czberska 12, Wroclaw 53-114, Poland.

IISR Indian Institute of Sugar Research, Kanpur, India.

IJMARI Indian Jute Mills Association Research Institute, Calcutta, India.

ILL Department of Plant Pathology, University of Illinois, Urbana, III. 61801 U.S.A.

IM Inoculation Manufactory, Strancice, Czechoslovakia.

  or

Microtheque, Mériieux Institute, France.

  or

Matchnikov Research Institute for Vaccines and Sera, Moscow K-64, U.S.S.R.

IMA Chair of Bacteriology, Agronomic and Veterinary Faculty, Institute of Agricultural Microbiology, M.A.G., Frederico Laxrose 2154, Buenos Aires, Argentina, S.A. or Institute of Microbiology and Agropecuarios Industry, I.N.T.A., Castelar, B.A., Argentina, S.A. See IAMB. Also IMIA.

IMAB See IMA.

IMAN Institute of Microbiology, U.S.S.R. Academy of Sciences, Moscow, U.S.S.R. (Rare, usually INMI.)

IMAP Instituto Microbiologia Agraria, Pisa, University of Pisa, Pisa, Italy.

IMAS A. S. See IMASP.

IMASP Museum of Cultures. Institute of Microbiology or Mycology. Academy of Sciences, People's Republic of China. Beijing, China. Also as IMAS A. S. or IMAS(P).

IMAS(P) See IMASP.

IMAT Institute of Agricultural and Technical Microbiology, Perugia, Italy.
IMATUN
Institute of Agricultural and Technical Microbiology, University of Naples, Naples, Italy.

IMB
Institute of Mycology, Biological Institute for Soil (Agriculture) and Forestry, 1000 Berlin-Dahlem, Federal Republic of Germany.

or
Institute of Microbiology and Biochemistry, Maria Curie Skłodowska University, Lublin, Poland.

(IMB)
Institute of Molecular Biology, Academy of Sciences, S.S.S.R., 117312, ul. Vavilova, 32, Moscow, B-312, U.S.S.R.

IMC
IMC Culture Collection, Growth of Sciences Center, International Minerals and Chemical Corporation, Libertyville, Ill. 60048 U.S.A.

or
Institute of Microbial Chemistry, 3-14-23 Kamiyosaki, Shinagawa-ku, Tokyo, 141 Japan.

IMCAS
Institute of Microbiology, Czechoslovak Academy of Sciences, Na cvičišti 2, Prague, Czechoslovakia.

IMET
Institute for Microbiology and Experimental Therapy, Beuthenbergstrasse 11, Jena 69, East Germany.

IMG
Institute for Microbiology, University of Göttin gen, Göttingen, Federal Republic of Germany.

IMH
Institute of Microbiology and Hygiene, University of Liege, Liege, Belgium.

IMI
Imperial Mycological Institute, Kew, England. See CMI. Also IMI CMI.

IMIA
See IMA.

IMIB
Department of Bacteriology, Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey, England. See CMI and IMI.

IMI CMI
See IMI.

IMIV
Institute of Microbiology and Virusology, Kazakh Academy of Sciences, 480100 ul. Kirova 103, Alma-Ata. 100 Kaz. S.S.R. Also IMIV.

IMJ
Institut for Microbiology and Experimental Therapy, Jena, East Germany.

IMK
Institute for Milk Hygiene, Kiel, Federal Republic of Germany.

IMM
Institute of Marine Medicine, Gdansk, Poland.

IMME
Institute for Medical Microbiology and Epidemiology, University of Halle, East Germany.
Institute of Microbiology, University Medical School, Pecs, Hungary.

Institute of Medical Parasitology and Tropical Medicine, 119435, M. Pirogovskaya ul., 20, Moscow, G-435, U.S.S.R.

Cantacuzino Institute of Microbiology, Parasitology and Epidemiology, Spaiul Independentei 103, Bucharest 35, Romania.

Institute of Medical Research, Malaya.

Waksman Institute of Microbiology, Rutgers-The State University, New Brunswick, N.J. 08854 U.S.A.

Institute of Microbiology, Sofia, Bulgaria.

Institute of Tropical Medicine, Basle, Switzerland.

Prince Leopold Institute of Tropical Medicine, Anvers, Belgium.

Institute of Mycology, Recife, Pernambuco, Brazil. Also as URM.

Institute of Microbiology, University of Tucumán, Tucumán, Argentina, S.A. Also IMUT.

Institute of Mycology, University of Recife, Recife, Brazil, S.A.

See IMUNT.

Institute of Microbiology and Virology. Academy of Sciences of the Ukrainian SSR.

Institute of Medical and Veterinary Science, Adelaide, Australia.

Institute of Animal Morphology, ul. Vavilova, 12, Moscow, U.S.S.R. or

District Nazyvalsya Institute of Living Morphology.

Research Institute, Ihara Noyaku Company, Ltd., 1000 Shibukawa, Shimizu-Shi, Shizuoka-ken, Japan (now defunct).

Institute for Research on New Antibiotics, Academy of Medical Sciences, 119021 Bolsheal Pirogovskaia 11, ul., 20, Moscow, G-21, U.S.S.R. Also IRNA.

Institute of Biology of Inland Waters, Borok, Nikouzkii District, Yaroshalskoi Region, U.S.S.R.

Institute of Biology of the Southern Seas, Academy of Sciences, Ukranian S.S.R., 335000, Pr. Nakhimova, 2, Sevastopol, Ukr. S.S.R.
INMI
(ИНМИ)
Institute of Microbiology, Academy of Sciences,
117312 Profsojuzanaja ul. 7, Kor. 2, Moscow
B-133 V-312, U.S.S.R. See IMAN, VKM and
VKMW.

INMIA
See INMIArm.

INMIArm.
(ИНМИАрм)
Institute of Microbiology, Academy of Sciences,
Armenian S.S.R., ul. Charentsa, 19, Erevan,
Arm. S.S.R.

INPI
National Institute of Industrial Property, Paris,
France.

INRA
National Institute of Agronomic Research,
Paris, France.

INTA
Institute of Plant Pathology, National Institute
of Microbiology, Castelar, Argentina, S.A.

or
National Institute of Agropecuria Technology,
Buenos Aires, Argentina, S.A.

IOC
Laboratory of Mycology, Oswaldo Cruz Insti-
tute, Caixa Postal 926, Rio-Est, Guanabara,
Rio de Janeiro, Brazil, S.A.

IP
Pasteur Institute, Rue Docteur Roux, 25, Paris
15, France. Also IPPF and IPP.

or
Department of Insect Pathology, Institute of
Entomology, Czechoslovak Academy Ved.,
Prague, Czechoslovakia.

IPA
(ИПА)
Institute of Soil Management and Agrochemis-
try, Academy of Sciences Azerbaijan S.S.R.,
370122, ul. 6-ya Khrebtovaya, 5, Baku, 122
Az. S.S.R.

or
Institute for Phytophathology, Aschersleben,
Germany.

IPAlger
Pasteur Institute, Alger, Algeria.

IPB
Pasteur Institute, Brussels, Belgium.

or
Research Institute for Pharmacy and Biochem-
istry, Kourimska 17, Prague, Czechoslovakia.

IPBD
Commonwealth Bureau of Plant Breeding and
Genetics, School of Agriculture, Cambridge,
England. See CPBG.

IPCR
Institute for Physical and Chemical Research,
31, Komagome-Kamifujimae-cho, Bunkyo-ku
or 2-28-8 Honkomagome, Bunkyo-ku, Tokyo,
Japan or 2-1, Hirosawa, Wako-shi, Saitama-
ken, 351 Japan.

IP&CR
See IPCR.

IPD
Pasteur Institute, Dakar, French East Africa.

IPF
Institut przemyslu fermentacijnego, Warsaw,
Poland.
IPFM
Institute of Parasitology, Faculty of Medicine, Paris, France.

IPH
National Institute of Public Health, Tokyo, Japan.

IPL
Pasteur Institute, Lyon 69, France.

IPLille
Pasteur Institute, Lille, France.

IP Lisbon
Pasteur Institute, Lisbon, Portugal.

IPM
Pasteur Institute, Casablanca, Morocco.

IPO
Institut voor Plantenziektenkundig Onderzoek, Wageningen, Netherlands.

IPP
See IP.

IPPF
See IP.

IPPPP
Institute for Plant Physiology, University of Prague, Prague, Czechoslovakia.

IPPreatoria
Institute of Pathology, Pretoria, Union of South Africa.

IPR
Institute of Parasitology of the University, Rome, Italy.

IPT
Pasteur Institute, Túnez, Africa.

IPV
Institute of Plant Pathology, University of Milano, Via Celoria 2, 20133, Milano, Italy. Also IPV(M) and IPVM.

IPVM
See IPV.

IPV(M)
See IPV.

IPV(Pisa)
Institute of Plant Pathology, Pisa, Italy.

IPZ
Institute of Soil Science, Teodora Dravzera 7, Beograd, Yugoslavia.

IRCE
Ramon y Cajal Institute, Madrid, Spain.

IRK
Robert Koch Institute, Berlin, Germany.

IRNA
See INA.

ISC
International Salmonella Center, Statens Seruminstitut, Amager Blvd. 80, 2300 Copenhagen, Denmark.

or
Iowa State College, Ames, Iowa 50010 U.S.A. Also ISU.

ISCD
Institute for State Control of Drugs Bul. VI Zaimov 26, Sofia, Bulgaria.

ISET
Institute of Health and Tropical Diseases, México, D.F., México.

ISL
International Subcommittee on Lactobacilli and Closely Related Organisms.

ISM
Shionogi Research Laboratory, Shionogi and Company, Ltd., Fukushima-ku, Osaka, Japan.

ISN
Institute of Natural Sciences, Ciudad Universitaria, Bogota, Columbia, S.A.

ISP
International Streptomyces Project, Ohio Wesleyan University, Delaware, Ohio 43015 U.S.A. (Now defunct.)
ISR | Istituto Superiore di Sanità, Roma, Italy. Also ISSR.

ISRA | Institute of Soil Research & Agrochemistry, Hungarian Academy of Science, Herman Otto ut 15, Budapest 11, Hungary.

ISSR | See ISR.

ISTD | Danish Institute of Sero-therapy, Copenhagen, Denmark.

ISTI | Indian Sugar Technological Institute, Kanpur, India.

ISTTU | Institute of Science & Technology, University of Tokyo, Tokyo, Japan.

ISU | Department of Agronomy, Iowa State University, Ames, Iowa 50010 U.S.A.

ISV | Institute of Plant Health, M.A.G., Argentina, S.A.

or Torlak Institute of Serums and Vaccines, Belgrade, Yugoslavia.

ISVI | State Institute of Serums and Vaccines, Hessa Karadj, Iran.

ISVV | Scientific Research Institute of Horticulture, Grape Growing and Winemaking, Kishinev, U.S.S.R.

(ITCBB) | Institute of Technology, Buenos Aires, Argentina, S.A.

ITBA | Department of Biology, Massachusetts Institute of Technology, Cambridge, Mass. 02139 U.S.A. See BDC.

ITCC | Indian Type Culture Collection, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi 12, India.

ITCCF | Indian Type Culture Collection of Fungi, Indian Agricultural Research Institute, New Delhi 12, India.

ITH | Institute of Tropical Hygiene, Amsterdam, Netherlands.

ITK | Institute of Tuberculosis, Kyoto University, Mukaharmachi, Shogoin, Sakyoku, Kyoto, Japan.

ITR | Oscar Kallner Institute for Animal Nutrition, Rostock, East Germany.

IU | The Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A.

IUB | International Union of Biochemistry.

IUBS | International Union of Biological Sciences.

IUNNG | Instytut Uprawy, Nawozenia i Gleboznowsta, Pulawy, Poland.
IUNS
International Union of Nutritional Sciences.
IUPAB
IUPAC
International Union of Pure and Applied Chemistry.
IVBP
Veterinary Institute of Bacteriology and Parasitology, University of Berne, Berne, Switzerland.
IVL
Veterinary Institute, Lausanne, Switzerland.
IVR
Institute for Virus Research, Kyoto University, Kyoto, Japan.
IZ
Fermentation Institute, University of São Paulo, Caixa Postal 56, Piracicaba, São Paulo or San Pablo, Brazil, S.A.
IZS
Imunolski Zavod, Rocfelerova 2, Zagred, Yugoslavia.
IZU
Institute of Experimental Zooprophylactics, Teramo, Italy.

JARA
Japan Antibiotic Research Association, Tokyo, Japan.
JARI
Jute Agricultural Research Institute, Barackpore, Cuttack, India.
JCC
Biology Department, Agricultural Institute, Johnstown Castle, Wexford, Ireland.
JDA
2nd Research Center, Development & Research H.Q., Japan Defense Agency, 9, Lkeijiri-cho, Setagayaku, Tokyo, Japan.
JFCC
The Japanese Federation of Culture Collections of Micro-organisms, Institute for Infectious Diseases, University of Tokyo, Shiba-shiroganedaimachi, Minato-ku or Institute of Applied Microbiology, University of Tokyo, Bunkyo 8-ku, Tokyo, Japan.

JH
Jena/Yeasts.
JHU
Johns Hopkins University, Baltimore, Md. 21205 U.S.A.
JMCH
Japan Monopoly Corporation, Hatano Tobacco Institute, Kanagawa, Japan.
JNAU
Department of Soil Science and Agricultural Chemistry, J.N.A.U., P.B. No. 80, Krishinagar, Jabalpur, India.
JP
Jena/Molds.

or

Laboratory of Food Science, Kyoto University, Japan.

Kagawa University, Japan.

Kaken Chemical Company, Ltd., 31 Komagome, Kamifujimae-cho, Bunkyo-ku, Tokyo, Japan. See also KCC and KChC.

Kayaku Antibiotics Research Company, 8-2 chôme, Funado-cho, Itabashi-ku, Tokyo, Japan.

Department of Biology, Faculty of Biology, M.V. Lomonosova Moscow National University, 117234 Leninsky gory, Moscow, B-234, U.S.S.R.

Culture Collection of Actinomycetes, Kaken Chemical Company, Ltd., 6-42, Jujodai 1-chôme, Kita-ku, Tokyo 114, Japan. See also Kaken and KChC.

See KCC.

Canada Department of Agriculture, Kentville, Nova Scotia.

Laboratory of Comparative Biology, Karsir Foundation Research Institute, Richmond, Calif. 94802 U.S.A.

Kishinevsky National University, g. 277000 Kishinev. ul. Pirogova, 65, U.S.S.R.

Chemico-Pharmaceutical Factory, Karpov, Moscow, U.S.S.R.

Kharbkovsky National University 310000, ul. Universitetskaya, 16, Kharkov, U.S.S.R.

Kobe Hygienic Laboratory, Hyogo, Japan.

Regional Public Health Laboratory Service or Regional Hygienic Stations, Czechoslovakia.

The Kitasato Institute, 9-1, Shirokane, 5-chôme Sanko-cho, Minato-ku, Tokyo, 108 Japan. (Formerly Kitasato Institute for Infectious Diseases.) See KIID. Also KITA.

Department of Antibiotics, Kitasato Institute, Shiba, Shirogane, Sanko-cho, Minato-ku, Tokyo, 108 Japan. See Kl. Also KITA.

Kulturensammlung am Institut für Mikrobiologie, Gosslerstr. 16, 34 Göttingen, Federal Republic of Germany.

See KIID.

Bacteriological Department of the Karolinska Institute, Stockholm, Sweden.

Kansai Medical School, Moriguchi-city, Osaka, Japan.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Name and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM LGU</td>
<td>Chair of Microbiology, Leningrad State University, 190000, Universitetskaya nab., 7/9, Leningrad U.S.S.R.</td>
</tr>
<tr>
<td>KMMGU</td>
<td>Department of Microbiology, Faculty of Biology, M.V. Lomonosova, Moscow National University, 117234, Leninskie gory., Moscow, B-234 U.S.S.R.</td>
</tr>
<tr>
<td>KNG &amp; SF</td>
<td>Koninklijke Nederlandsche Gist en Spiritusfabriek N.V. or Gist-Brocades N.V., Delft, Netherlands</td>
</tr>
<tr>
<td>KNRMGU</td>
<td>Department of Lower Plants, Faculty of Biology, M.V. Lomonosova Moscow National University, Leninskie gory., Moscow, U.S.S.R.</td>
</tr>
<tr>
<td>KPUM</td>
<td>Medical Microbiological Department, Kyoto Prefectural University, Kyoto, Japan.</td>
</tr>
<tr>
<td>Král</td>
<td>The Král Collection, one of the first collections of living microorganisms which operated in modern fashion. (This collection ceased to exist in 1942.)</td>
</tr>
<tr>
<td>KSC</td>
<td>Department of Botany, Kansas State College, Manhattan, Kans. 66502 U.S.A.</td>
</tr>
<tr>
<td>KSE</td>
<td>Kagawa Shoyu Experimental Station, Tokushima, Japan.</td>
</tr>
<tr>
<td>KTH</td>
<td>Royal Technical High School, Stockholm, Sweden.</td>
</tr>
<tr>
<td>KU</td>
<td>Faculty of Medicine, Kyushu University, Fukuoka, Japan.</td>
</tr>
<tr>
<td>KUB</td>
<td>Department of Biochemistry, Juwait University, P.O. Box 5969, 811.188 Kuwait, Arabia.</td>
</tr>
<tr>
<td>KUT</td>
<td>Faculty of Engineering, Kansai University, Osaka, Japan.</td>
</tr>
<tr>
<td>KY</td>
<td>Tokyo Research Laboratory, Kyowa Hakko Kogyo Company, Ltd., 6-6, Asahimachi-3-chôme machida shi, Tokyo, 194 Japan.</td>
</tr>
<tr>
<td>KYA</td>
<td>Laboratory of Zymotic &amp; Industrial Fermentations, Faculty of Agriculture, Kyushu University, Fukuoka, Japan. Also KYU.</td>
</tr>
<tr>
<td>KYM</td>
<td>Faculty of Medicine, Kyushu University, Fukuoka, Japan.</td>
</tr>
<tr>
<td>KYU</td>
<td>See KYA.</td>
</tr>
<tr>
<td>L</td>
<td>Rijksherbarium, Leiden, Netherlands. or Lepetit S.P.A., Via Roberto Lepetit 8, Milano, Italy.</td>
</tr>
<tr>
<td>LAKTOFLORA</td>
<td>Research Laboratories of the Dairies, Association for the Production of Pure Milk Cultures, Laktoflora, Ke dvoru 2, Prague 6, Czechoslovakia.</td>
</tr>
</tbody>
</table>
LAPP
Laboratory for Anatomy and Physiology of Plants, J.E. Purkyně University, Kotlářská 2, Brno, Czechoslovakia.

LBG
Institute for Agricultural Bacteriology and Fermentation Biology, Confederated Technical High School, Universitätsstrasse 2, Zurich, Switzerland.

LBIH
Landbouwproefstation en Bodemkundung Instituut, T.N.O. Groningen, Netherlands.

LBL
V.I. Lenin Laboratory Library, 12109, G-19, ul., Kalininsky pr., 3, Moscow, U.S.S.R.

LBPB
Laboratory of Bacteriology and Parasitology, Faculty of Medicine, University of Bruxelles, Brussels, Belgium.

LC
See LCP.

LCD
Carlsberg Laboratory, Copenhagen, Denmark.

LCF
Central Laboratory of Phytopathology, Buenos Aires, Argentina, S.A.

LCI
Italian Cryptogamic Laboratory, Botanical Institute, University of Pavia, Pavia, Italy. See LCPI.

LCP
Laboratory of Cryptogamy, National Museum of Natural History, 12 Rue de Buffon, Paris (5°), France. Also LC, MP, PC, LC(P), Mycotheque, and MNHN.

LC(P)
See LCP.

LCPI
Cryptogamic Laboratory, Pavia, Italy. See LCI.

LED
Lederle Laboratories Division, American Cyanamid Co., Pearl River, N.Y. 10965 U.S.A. See AMCY.

Lederle
Lederle Laboratories, Division of American Cyanamid Company, Pearl River, N.Y. 10965 U.S.A. Also as LLRA and LED.

LEO
Leo Pharmaceutical Products, Copenhagen, Denmark.

Lep.
See Lepetit.

Lepetit
Research Laboratories, Lepetit S. p. A., Via Roberto Lepetit 8, Milano, Italy. Also as L or Lep.

LFCD
Laboratory of Fermentation, Alfred Jörgenson, Copenhagen, Denmark.

LGU
Department of Microbiology, Leningrad National University, Universitetskaya nab., 7/9, 19000, Leningrad, U.S.S.R.

LIA
Museum of Cultures, Leningrad Research Institute of Antibiotics, 32 Ogorodnikov Prospect, Leningrad L-20, U.S.S.R. or Department of Microbiology, Latvian Academy of Agriculture, Jelgava, Latvia, U.S.S.R.
<table>
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<tr>
<th>Code</th>
<th>Organization</th>
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</thead>
<tbody>
<tr>
<td>LIAN</td>
<td>Leningrad Institute of Antibiotics, 190000, Ogorodnikova dr. 23, Leningrad, U.S.S.R.</td>
</tr>
<tr>
<td>LIHMC</td>
<td>Leningrad Institute of High-molecular Compounds, Academy of Sciences, Leningrad, U.S.S.R.</td>
</tr>
<tr>
<td>Lilly</td>
<td>Division of Eli Lilly and Company and The Lilly Research Laboratories, Indianapolis, Ind. 46206 U.S.A.</td>
</tr>
<tr>
<td>LIO</td>
<td>See LIA, a lapsus calami in Antibiotiki 20(3): 198.</td>
</tr>
<tr>
<td>LIP</td>
<td>Laboratory of Insect Pathology, University of California, Berkeley, Calif. 94701 U.S.A.</td>
</tr>
<tr>
<td>LKB</td>
<td>Laboratory of Kodama Brewing Company, Itagawa machi, Akita Prefecture, Japan.</td>
</tr>
<tr>
<td>LKHFI</td>
<td>Leningrad Chemico-Pharmaceutical Institute, 197022, ul. prof. Popova, 14, Leningrad, P-22, U.S.S.R.</td>
</tr>
<tr>
<td>LLRA</td>
<td>See Lederle.</td>
</tr>
<tr>
<td>LM</td>
<td>Laboratory for Microbiology, Delft, Netherlands.</td>
</tr>
<tr>
<td>LMD</td>
<td>Laboratory for Microbiology, Delft, Netherlands.</td>
</tr>
<tr>
<td>LPS</td>
<td>C. Spengazzini Institute of Botany, La Plata, Argentina, S.A.</td>
</tr>
<tr>
<td>LRI</td>
<td>Laboratorie de Quimica Agricola.</td>
</tr>
<tr>
<td>LRL</td>
<td>Leather Research Institute, Otrokovice, Czechoslovakia.</td>
</tr>
<tr>
<td>LSH</td>
<td>London School of Hygiene and Tropical Medicine, London, England. Also LSHTM.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
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<tr>
<td>LSHB</td>
<td>Biochemistry Department, London School of Hygiene and Tropical Medicine, Keppel Street (Gower Street), London, WC 1, England.</td>
</tr>
<tr>
<td>LSHM</td>
<td>Mycological Reference Laboratory, London School of Hygiene and Tropical Medicine, London, England.</td>
</tr>
<tr>
<td>LSHTM</td>
<td>See LSH.</td>
</tr>
<tr>
<td>LSU</td>
<td>The Lenin State Library, Moscow, U.S.S.R.</td>
</tr>
<tr>
<td>LSL (ЛСЛ)</td>
<td>Louisiana State University, Baton Rouge, La. 70803 U.S.A.</td>
</tr>
<tr>
<td>LT</td>
<td>Treub Laboratory, Bogor, Indonesia.</td>
</tr>
<tr>
<td>LUV</td>
<td>Ultra-virus Laboratory, Lyon, France.</td>
</tr>
<tr>
<td>M</td>
<td>State Botanical Collection, München, Federal Republic of Germany.</td>
</tr>
<tr>
<td>MA</td>
<td>Merck and Company. See also MCC and Merck. or Medical Academy, Sofia, Bulgaria.</td>
</tr>
<tr>
<td>MacC</td>
<td>Department of Microbiology, Macdonald College, Quebec, Canada. See also MCC.</td>
</tr>
<tr>
<td>MACN</td>
<td>Argentine Museum of Natural Sciences, “Bernardino Rivadavia,” Buenos Aires, Argentina, S.A.</td>
</tr>
<tr>
<td>Magarač</td>
<td>All-Union Scientific-Research Institute of Viticulture and Viticulture, Magarač, Jalta, Krym, U.S.S.R.</td>
</tr>
<tr>
<td>MAR</td>
<td>Grasslands Research Station, P. Bag 701, Marondellas, Rhodesia.</td>
</tr>
<tr>
<td>MAUE</td>
<td>Laboratory of Industrial Microbiology, Faculty of Agriculture, Tokyo University of Education, Tokyo, Japan.</td>
</tr>
<tr>
<td>MB</td>
<td>Herbarium, Botanical Institute, University of Marburg, 355 Marburg/Lahn, Germany. or Monopoly Bureau of Japan, Tokyo, Japan.</td>
</tr>
<tr>
<td>MBA</td>
<td>Microbiological Associates.</td>
</tr>
<tr>
<td>MBL</td>
<td>Medical Biological Laboratory, Rijswijk, ZH, Netherlands.</td>
</tr>
<tr>
<td>MCC</td>
<td>Merck Culture Collection, Merck and Co., Rahway, N.J. 07065 U.S.A. See also MA and Merck. or MacDonald College Collection, MacDonald College, Quebec, Canada. See also MacC.</td>
</tr>
<tr>
<td>Code</td>
<td>Organization/Institution</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>MCI</td>
<td>Culture Collection, Central Research Laboratory, Mitsubishi Chemical Industries Limited, 1000 Kamoshida-machi, Midori-ku, Yokohama 227, Japan.</td>
</tr>
<tr>
<td>MCRL</td>
<td>Microbial Chemistry Research Laboratories, Tanabe Seiyaku Company, Limited, 2-50 Kagawishi 2-chome Toda-shi, Saitama-ken or 3073 Shimatoda, Toda-machi, Kita-adashigun, Saitama-ken 335 Japan or Microbiological Dept., Biology and Chemistry Research Laboratory.</td>
</tr>
<tr>
<td>MCU</td>
<td>Faculty of Medicine, Chiba University, Chiba, Japan.</td>
</tr>
<tr>
<td>MDB</td>
<td>Microbiology Department, Faculty of Natural Sciences, J. E. Purkyné University, Brno, Czechoslovakia. Also CCM and PU.</td>
</tr>
<tr>
<td>MDH</td>
<td>Michigan Department of Health, Lansing, Mich. 48914 U.S.A.</td>
</tr>
<tr>
<td>MEIJI</td>
<td>Meiji Milk Products Company, Tokyo, Japan. or Research Laboratories, Meiji Seika Kaisha, Ltd., Morooka-cho, Kohoku-ku, Yokohama, 222 Japan.</td>
</tr>
<tr>
<td>MEJ</td>
<td>Ministry of Education, Mombu-sho, Japan.</td>
</tr>
<tr>
<td>Merck</td>
<td>Merck Sharp and Dohme Laboratories, Division of Merck and Company Incorporated, Rahway, N.J. 07065 U.S.A. See also MA and MCC.</td>
</tr>
<tr>
<td>MFC</td>
<td>Matsushima Fungus Collection, Shionogi Research Laboratory, Shionogi &amp; Company, Limited, Fukushima-ku, Osaka, Japan.</td>
</tr>
<tr>
<td>406 MGL</td>
<td>406th Medical General Laboratory, U.S. Army, Zama, Japan.</td>
</tr>
<tr>
<td>MGU</td>
<td>Chair of Study of Lower Plants, Moscow State University, 117234, Leninsky Gory, Moscow B-234, U.S.S.R.</td>
</tr>
<tr>
<td>MHC&amp;AD</td>
<td>NYC Memorial Hospital for Cancer and Allied Diseases, 444 E. 68th St., New York, N.Y. 10021 U.S.A.</td>
</tr>
<tr>
<td>MICH</td>
<td>University Herbarium, Ann Arbor, Mich. 48109 U.S.A.</td>
</tr>
<tr>
<td>Millport</td>
<td>Marine Station, Millport, Scotland.</td>
</tr>
<tr>
<td>MIRCEN</td>
<td>Microbiological Resource Centre.</td>
</tr>
<tr>
<td>MKU</td>
<td>Faculty of Medicine, Kanagawa University, Ishikawa, Japan.</td>
</tr>
<tr>
<td>MLA</td>
<td>Mycological Laboratory, Botany Department, Allahabad University, Allahabad, India.</td>
</tr>
<tr>
<td>MLPF</td>
<td>Laboratory of Microbiology, Faculty of Agriculture, Sarajevo, Yugoslavia.</td>
</tr>
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</table>
MMRS
Mount Makulu Research Station, Northern Rhodesia.

MNC
Morinaga Confectionery Company Laboratory, Tokyo, Japan.

MNHN
See LCP.

MO
School of Medicine, Osaka University, Osaka, Japan.

MOCU
Department of Biochemistry, Osaka City University, School of Medicine, 2-chôme, Asahimachi, Abeno-ku, Osaka, Japan. Also MOMU.

MOMU
See MOCU.

Montecatini
Antibiotic Research Laboratory of S.A. Montecatini, Milano, Italy.

MP
See LCP.

MR
Mycological Herbarium of the Federation of Rhodesia and Nyasaland. (Nyasaland now is Malawi.)

MRE

MRI
Microbiology Research Institute, Central Experimental Farm, Ottawa, Ontario, Canada.

MRL
Mycoplasma Reference Laboratory, Bowthorpe Road, Norwich, NR2 3TX England.

MRNY
Medical Research, New York, N.Y. 11101 U.S.A.

MSDH
Michigan State Department of Health.

MSH
Department of Microbiology, Dartmouth Medical School, Hanover, N.H. 03755 U.S.A.

MSNZ
Medical School, Dunedin, New Zealand.

MSU
Department of Microbiology, Michigan State University, East Lansing, Mich. 48823 U.S.A.

(MC4)
The Moscow State University, Moscow, U.S.S.R.

MT
The National Sanatorium Chuba Chest Hospital, Obu, Aichi 474, Japan.

MTHU
Department of Bacteriology, Faculty of Medicine, Tohoku University, 4 Ban-cho, Kita, Sendai City or Kita, Ban-cho, Sendai-shi, Miyagi-ken, 980 Japan.

MTU
Faculty of Medicine, University of Tokyo, 7-chôme, Hongō, Bunkyo-ku, Tokyo, Japan.

MU
Laboratory of Fermentation, Faculty of Agriculture, Mie University, Tsu, Japan.

or
Institute of Microbiology, Faculty of Medicine, Brno, Czechoslovakia.
MUCOB  Manchester University Collection of Bacteria, Department of Bacteriology and Virology, University of Manchester, Oxford Road, Manchester, M13 9PT, Greater Manchester, England.

MULg  Department of Microbiology, University of Liège, 32, Boulevard de la Constitution, Liège, Belgium.


MVZ  Veterinary Hygienic Laboratories, Czechoslovakia.

MW  Mycology Division, Institute for Special Botany, Jena, Weimar, East Germany.

Mycotoque  See LCP.


NA  See ABBOTT.

NADL  National Animal Disease Laboratory, Ames, Iowa 50010 U.S.A.

NAGAS  Nagas Laboratories, 380 MiShuka-Cho, Setagayaku, Tokyo, Japan.

NARI  National Agricultural Research Institute, M.A.F., Tokyo, Japan.

NARI(AES)  See NARI.

NBIR  The National Bureau of Industrial Research, Ministry of Economic Affairs, P.O. Box 268, Chungking, China.

NBIRN  The National Bureau of Industrial Research, Nanking, China.

NBL  Naval Biological Laboratory, Oakland, Calif. 91627 U.S.A.

NCA  National Canner's Association, Washington, D.C. 20006 U.S.A.

NCAIA  National Center for Antibiotics and Insulin Analysis, Food and Drug Administration, Washington, D.C. 20204 U.S.A.

NCDC  See CDC.


NCIB  National Collection of Industrial Bacteria. Ministry of Agriculture, Fisheries, and Food, Torry Research Station, P.O. Box 31, 135 Abbey Road, Aberdeen AB9, 8DG, Scotland.
NCIM  National Collection of Industrial Microorganisms, National Chemical Laboratory, Poona 8, Maharashtra, India.

NCL  National Chemical Laboratory, Division of Technical Service, Poona 8, India.

NCMB  National Collection of Marine Bacteria, Ministry of Agriculture, Fisheries, and Food, Torry Research Station, P.O. Box 31, 135 Abbey Road, Aberdeen AB9, 8DG, Scotland.

NCMH  The North Carolina Memorial Hospital, University of North Carolina, Chapel Hill, N.C. 27514 U.S.A.


NCSC  North Carolina State College, Raleigh, N.C. 27607 U.S.A.

NCTC  National Collection of Type Cultures, Central Public Health Laboratory, Colindale Avenue, London, N.W. 9, 5HT England. (Formerly located at the Lister Institute.)

NCUM  Medical School, Nagoya City University, Nagoya, Japan.

NCYC  National Collection of Yeast Cultures (formerly at Brewing Industry Research Foundation, Nutfield, Redhill, Surrey, England), now at Food Research Institute, Colney Lane, Norwich, Norfolk, NR4, 7UA, England.

NDRC  Former National Defense Research Committee, Washington, D.C. U.S.A.

NDSU  Department of Bacteriology, North Dakota State University, Fargo, N. Dak. 58102 U.S.A.

NEA  Nobel Explosives Company, Ardeer, Scotland.

NGO  Non-Governmental Organizations.

NGR  Department of Agriculture, Stock and Fisheries, Port Moresby, Papua and New Guinea.

NHL  National Hygienic Laboratory or National Institute of Hygienic Sciences, 2-203 Tamagawa Yogamachi, Setagaya-ku, Tokyo, Japan.

NI  Nagao Institute, 96 Kinuta-machi, or 380 Mishuku, Setagaya-ku, or Kitashinagawa, Tokyo, Japan (now defunct).

NIAH  National Institute of Animal Health, Ministry of Agriculture and Forestry, Jósui-hommachi, Kodaira City, Tokyo, Japan.

NIAID  National Institute of Allergy and Infectious Diseases, Hamilton, Mont. 59840 U.S.A.

NIAQT  National Institute for Agricultural Quality Testing, Keleti Károly u. 24, Budapest II, Hungary.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
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<tr>
<td>NIAS</td>
<td>Department of Soils and Fertilizers, National Institute of Agricultural Sciences, Nishigahara, Kita-ku, Tokyo, Japan.</td>
</tr>
<tr>
<td>NIG</td>
<td>National Institute of Genetics, Shizuoka, Mishima, Japan.</td>
</tr>
<tr>
<td>NIH</td>
<td>National Institutes of Health, Bethesda, Md. 20014 U.S.A. Also NIHA. or National Institutes of Health of Japan, Tokyo, Japan. See also NIHA and NIHJ. or National Institute of Hygiene, 2-6 Budapest, Hungary.</td>
</tr>
<tr>
<td>NIHA</td>
<td>See NIH.</td>
</tr>
<tr>
<td>NIHJ</td>
<td>National Institute of Health of Japan or Department of Antibiotics, National Institute of Health of Japan, 284, Chojamaru, 10-39, Kamiosaki 2-chôme Shinagawa-ku, Tokyo, 141 Japan. See NIH.</td>
</tr>
<tr>
<td>NIK</td>
<td>Nagao Institute, Kyoto Branch, Kyoto, Japan. (No longer in existence.)</td>
</tr>
<tr>
<td>NISL</td>
<td>Noda Industrial Science Laboratory, Noda or Chiba, Japan.</td>
</tr>
<tr>
<td>NIST</td>
<td>National Institute of Science and Technology.</td>
</tr>
<tr>
<td>NIVM</td>
<td>National Institute of Veterinary Medicine, Brno, Czechoslovakia.</td>
</tr>
<tr>
<td>NJES</td>
<td>New Jersey Agricultural Experiment Station, New Brunswick, N.J. 08903 U.S.A.</td>
</tr>
<tr>
<td>NLABS(QM)</td>
<td>Pioneering Research Laboratory, U.S. Army Natick Laboratories, Natick, Mass. 01760 U.S.A.</td>
</tr>
<tr>
<td>NML</td>
<td>An acronym of unknown derivation appearing in U.S. Patent 3,826,714 (July 30, 1974).</td>
</tr>
<tr>
<td>NPN</td>
<td>Department of Agricultural Chemistry, Nagoya University, Chikusa-ku, Nagoya, Japan.</td>
</tr>
<tr>
<td>NRC</td>
<td>National Research Council, 100 Sussex Drive, Ottawa 2, Ontario, Canada K1A OR6. Also NRC Canad. and NRCC. or National Research Centre, Ministry of Scientific Research, Sh. El-Tahir, Dokki, Cairo, United Arab Republic.</td>
</tr>
<tr>
<td>NRC Canad.</td>
<td>See NRC.</td>
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<tr>
<td>NRCC</td>
<td>See NRC.</td>
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<tr>
<td>Abbreviation</td>
<td>Description</td>
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<td>--------------</td>
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<tr>
<td>NRL</td>
<td>Neisseria Reference Laboratory, U.S. Public Health Service Hospital, Seattle, Wash. 98114 U.S.A.</td>
</tr>
<tr>
<td>NRRC</td>
<td>Northern Regional Research Center. See NRRL.</td>
</tr>
<tr>
<td>NRRL</td>
<td>Agricultural Research Culture Collection (NRRL), Fermentation Laboratory, Northern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture, 1815 N. University St., Peoria, Ill. 61604 U.S.A. (Formerly referred to as Culture Collection, Fermentation Laboratory, Northern Regional Research Laboratory.)</td>
</tr>
<tr>
<td>NRS</td>
<td>Collection of Nathan R. Smith, U.S. Department of Agriculture, Washington, D.C. 20520 U.S.A. Also at Agricultural Research Culture Collection (NRRL), Peoria, Ill. 61604 U.S.A. and IMRU.</td>
</tr>
<tr>
<td>NSM</td>
<td>National Science Museum, Tokyo, Japan.</td>
</tr>
<tr>
<td>NTCCI</td>
<td>National Type Culture Collection, Indian Institute of Science, Bangalore, India.</td>
</tr>
<tr>
<td>NTHC</td>
<td>Norse Technical Høgskoles Collection, Department of Biochemistry, Technical University of Norway, Trondheim MTH, Norway.</td>
</tr>
<tr>
<td>NTSU</td>
<td>Department of Biological Sciences, North Texas State University, Box 5218, North Texas Station, Denton, Tex. 76203 U.S.A.</td>
</tr>
<tr>
<td>NUFS</td>
<td>Faculty of Science, Nagoya University, Nagoya, Japan.</td>
</tr>
<tr>
<td>NURB</td>
<td>See NRRL.</td>
</tr>
<tr>
<td>NVRS</td>
<td>National Vegetable Research Station, Plant Pathology Section; Wellesbourne, Warwick CV35 9EF England.</td>
</tr>
<tr>
<td>NY</td>
<td>See NYBG.</td>
</tr>
<tr>
<td>NYBG</td>
<td>New York Botanical Garden, Bronx Park, New York, N.Y. 10458 U.S.A. Also as NY.</td>
</tr>
<tr>
<td>NYSDH</td>
<td>New York State Department of Health, Albany, N.Y. 12224 U.S.A.</td>
</tr>
<tr>
<td>NYU</td>
<td>New York University.</td>
</tr>
<tr>
<td>NZRCC</td>
<td>New Zealand Reference Culture Collection, Auckland, New Zealand.</td>
</tr>
<tr>
<td>OAC</td>
<td>Mycological Herbarium, Department of Botany, Ontario Agricultural College, Guelph, Canada.</td>
</tr>
<tr>
<td>OEEC</td>
<td>Organization of European Economic Co-operation. Superseded by OECD.</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<td>---------</td>
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<tr>
<td>OEU</td>
<td>Tennoji Branch, Osaka Kyoiku University (formerly Osaka University of Liberal Arts and Education), Minami-Kawabori-cho, 431 Tennoji-ku or Ikedashi, Osaka, 543 Japan. See also OUE. (OUE is usual siglum.)</td>
</tr>
<tr>
<td>OH</td>
<td>Botanical Institute, Hamburg, Federal Republic of Germany.</td>
</tr>
<tr>
<td>OHS</td>
<td>Public Health Laboratory Services or District Hygienic Stations, Czechoslovakia.</td>
</tr>
<tr>
<td>OIAB</td>
<td>Ohara Institute for Agricultural Biology, Kurasaki, Japan.</td>
</tr>
<tr>
<td>OKAYAMA</td>
<td>Department of Biochemistry, Okayama Medical School, Okayama, Japan.</td>
</tr>
<tr>
<td>OMC</td>
<td>Osaka Medical College, Osaka, Japan.</td>
</tr>
<tr>
<td>OMS</td>
<td>World Health Organization.</td>
</tr>
<tr>
<td>ONR</td>
<td>Office of Naval Research.</td>
</tr>
<tr>
<td>OPA</td>
<td>Faculty of Agriculture, Osaka Prefectural University, Osaka, Japan.</td>
</tr>
<tr>
<td>OPH</td>
<td>Osaka Prefectural Hospital, Osaka, Japan.</td>
</tr>
<tr>
<td>OR</td>
<td>Research Laboratories, N. V. Organon, Netherlands.</td>
</tr>
<tr>
<td>ORDA</td>
<td>Office of Recombinant DNA Activities, National Institutes of Health, Bethesda, Md. 20205 U.S.A.</td>
</tr>
<tr>
<td>ORL</td>
<td>Laboratory of Microbiology, Faculty of Science, 45-Orleans 02, Loiret, France.</td>
</tr>
<tr>
<td>ORTHO</td>
<td>Ortho Research Foundation, Raritan, N.J. 08869 U.S.A. Also Ortho Res. Found.</td>
</tr>
<tr>
<td>Ortho Res. Found.</td>
<td>See ORTHO.</td>
</tr>
<tr>
<td>OSDA</td>
<td>Department of Agronomy, The Ohio State University, 1885 Neil Avenue, Columbus, Ohio 43210 U.S.A.</td>
</tr>
<tr>
<td>OSU</td>
<td>Withycombe Hall, Oregon State University, Corvallis, Oreg. 97331 U.S.A. Or Ohio State University, Columbus, Ohio 43210 U.S.A.</td>
</tr>
<tr>
<td>OTHS</td>
<td>See OUT.</td>
</tr>
<tr>
<td>OUE</td>
<td>See OEU and OUT.</td>
</tr>
<tr>
<td>OUS</td>
<td>Faculty of Science, Osaka University, Osaka, Japan.</td>
</tr>
<tr>
<td>OUT</td>
<td>Faculty of Engineering, Osaka University, Yamadaue, Suita City, Osaka, Japan. Or Department of Fermentation Technology, Osaka University, 9-chôme, Higashinodamachi, Miya-koshima-ku, Osaka, Japan.</td>
</tr>
<tr>
<td>OWMC</td>
<td>Department of Microbiology, Osaka Women's Medical College, Osaka, Japan.</td>
</tr>
</tbody>
</table>
OWU  Ohio Wesleyan University, Delaware, Ohio 43015  U.S.A.

PAC  Herbarium, University of Pennsylvania, University Park, Pa. 16802 U.S.A.

PAD  Institute and Botanical Garden, University of Padova, Padova, Italy.

Paris  Laboratory of Cryptogamy and Algology, National Museum of Natural History, Paris, France.

PATU  Laboratory of Plant Pathology, Faculty of Agriculture, Tokyo University, Tokyo, Japan.

PC  See LCP.

PCC  Purdue Culture Collection, Department of Biological Sciences, Purdue University, Lafayette, Ind. 47907 U.S.A.

PCI  Penicillin Control and Immunology Section, Food and Drug Administration, 7th and Jefferson Drive SW., Washington, D.C. 20204 U.S.A.

PD or P.D. or P-D or PD(D)  Plantenziektenkundige Dienst. Wageningen, Netherlands.

or  Park, Davis Culture Bureau, Parke, Davis & Company and Parke, Davis Research Laboratories, Joseph Campau at the River, Detroit, Mich. 48232 U.S.A.

PDD  Herbarium of Plant Diseases Division, Auckland, New Zealand.

PDDCC  Culture Collection of Plant Diseases Division, New Zealand Department of Scientific and Industrial Research, Auckland, New Zealand.

PDU  See PU.

PF  Charles Pfizer and Co., New York, N.Y. 10017 U.S.A.

Pfizer  Central Research, Charles Pfizer and Company, Eastern Point Rd., Groton, Conn. 06340 U.S.A.

PGMMS  Post Graduate Medical Military School, Sofia, Bulgaria.

PH  N. V. Philips Duphar, Apollolaan 151, Amsterdam, Netherlands.

or  Academy of Natural Sciences, Philadelphia, Pa. 19103 U.S.A.

PHL  Public Health Laboratory, Albany, N.Y. 12224 U.S.A.

PIEM  Prague Institute of Epidemiology and Microbiology, Prague, Czechoslovakia.

PIL  Pest Infestation Laboratory, Slough, Buckinghamshire, England.

PIR  The N. Poushkarov Institute of Soil Science, 136 9 September Boulevard, Sofia, Bulgaria.

PIRI  Research Institute for the Pharmaceutical Industry, Budapest, Hungary.

PL  Mycotheque, Laboratory of Parasitology, Faculty of Medicine, Paris, France.

PLPH  Provincial Laboratory of Public Health, Edmonton, Alberta, Canada. See also UAMH.

Plymouth  Marine Biological Laboratory, Plymouth, England.

PMCC  Pharmaceutical Microbiology Culture Collection, Pharmaceutical Microbiology Laboratory, Pharmacy College, Baghdad University, Baghdad, Iraq.

PPLCAN  Plant Pathology Laboratory, Canada.

PQMD  See QM.

PR  Botanical Institute of the National Museum, Prague, Czechoslovakia.

Prag  Laboratory of Autotrophic Organisms, Czechoslovakian Academy of Sciences, Prague, Czechoslovakia.

PRE  National Herbarium, Pretoria, Union of South Africa.

PRI  Plant Research Institute, Ottawa, Ontario, Canada.

PRL  Prairie Regional Laboratory, Saskatoon, Saskatchewan, Canada.

PSA  Progetto Sistematica Actinomiceti, "P. Stazzi" Institute, Institute of Microbiology, University of Milano, Via Mangiagalli 31 or Via Celoria 10, Milano, Italy.

PSU  Pennsylvania State University, University Park, Pa. 16802 U.S.A.

PU  Purdue University, Lafayette, Indiana 47907 U.S.A. Also CCM or MDB.

PUO  Biologickij õstav Lek., Fakulty Palackeho University, Olomouc Czechoslovakia.

PZH  Collection of Cultures, Institute of Hygiene, Warsaw, Poland.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QIMR</td>
<td>Queensland Institute of Medical Research, Herston Road, Herston, Brisbane, Queensland 4006, Australia.</td>
</tr>
<tr>
<td>QM</td>
<td>Pioneering Research Division, Quartermaster Research and Engineering Command, U.S. Army Natick Laboratories, Quartermaster Research and Development Center, Natick, Mass. 01760 U.S.A.; or Quartermaster Depot, U.S. Army, Philadelphia, Pa. 19104 U.S.A. Also PQMD, QMRDC, and QM QMRDC. (QM is usual acronym for designation of cultures. The QM collection has been transferred to the Agricultural Research Culture Collection (NRRL), Peoria, Ill. 61604 U.S.A.). See NRRL.</td>
</tr>
<tr>
<td>QM QMRDC</td>
<td>See QM.</td>
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<tr>
<td>QMRDC</td>
<td>See QM.</td>
</tr>
<tr>
<td>RAJ</td>
<td>See ARIN.</td>
</tr>
<tr>
<td>RCR</td>
<td>Rothamstead Collection of <em>Rhizobium</em>, Soil Microbiology Department, Rothamstead Experimental Station, Harpenden, Hertfordshire, England.</td>
</tr>
<tr>
<td>RES</td>
<td>Rothamsted Experimental Station, Harpenden, Hertfordshire, England.</td>
</tr>
<tr>
<td>RH</td>
<td>Rudolph High Collection, George Washington University, Washington, D.C. 20006 U.S.A.</td>
</tr>
<tr>
<td>Rhone-Poulenc</td>
<td>See RP.</td>
</tr>
<tr>
<td>RI</td>
<td>Rockefeller Institute, New York City, N.Y. 10020 U.S.A.</td>
</tr>
<tr>
<td>RIA</td>
<td>Research Institute for Ampelology, Budapest, Hungary.</td>
</tr>
<tr>
<td>(РИА)</td>
<td>U.S.S.R. Research Institute for Antibiotics, 115148 Nagatinskaya ul. 3a, Moscow M-198 115148 U.S.S.R. Also USSR RIA and VNIIA.</td>
</tr>
<tr>
<td>RIB</td>
<td>Research Institute of Brewing, Tax Administration Agency, 2-6 Takinogawa, Kita-ku, Tokyo 114, Japan. Also GIB and BSRI.</td>
</tr>
<tr>
<td>RIBM</td>
<td>Research Institute, Borstel, Germany.</td>
</tr>
<tr>
<td></td>
<td>Research Institute for Brewing and Malting, Lipová 15, Prague 2, Czechoslovakia.</td>
</tr>
</tbody>
</table>
RIDC Research Institute for Distillery and Canning Industry, Miličíčová ul. 14b, Bratislava, Czechoslovakia. See RIDCI.

RIDCI Research Institute for Distillery and Canning Industry. See RIDC.

RIDPI Research Institute of the Distillers and Preservation Industry, Prague, Czechoslovakia.

RIFY Research Institute of Fermentation, Yamashinishi University, Kofu, Japan. See YFI.

RIIPD Research Institute of Infectious and Parasitic Diseases, Medical Academy, Sofia, Bulgaria.

RIJPK Rijksdienst voor de IJsselmeerpolders, (Ijssel Lake Polders Development and Colonization Authority) Molenstraat 28, Kampen, Netherlands.


RIM All-Union Microbiological Research Institute, Saratov, U.S.S.R.

RIMD Research Institute for Microbial Diseases, Osaka University, Nishi-machi, Dōjima, Kita-ku or Yamadaue (Yamada-Kami), Suita City, Osaka, Japan.

RIMR Rockefeller Institute for Medical Research. 66th St. and York Ave., New York, N.Y. 10021 U.S.A.

RIND Research Institute for Natural Drugs. Prague, Czechoslovakia.

RIO Research Institute, Canada Agriculture, University Sub P.O., London, Guelph, Ontario, Canada.

RIPC Research Institute for Pharmaceutical Chemistry, Budapest, Hungary.

RIR Research Institute of Radioelectronics, Sofia, Bulgaria.

or

Research Institute for Refrigeration, Bratislava, Czechoslovakia.

RIT Recherche et Industrie Therapeutique, 13 rue du Tilleul, Genval, Belgium.

or

Rega Institute, University of Leuven, Minderbroedersstraat, 10, Leuven, Belgium.

RIVE Research Institute for Viticulture and Enology, Matuškova ul. 97, Bratislava, Czechoslovakia.

RIVM Research Institute of Veterinary Medicine, Brno, Czechoslovakia.
Institute of Research Experimentation of Centro Sul (I.P.E.A.C.S), km 47-Via Campo Grande-ZC-26, GB, Brazil, S.A.


Roussel Laboratories, Culture Collection, Microbiological Q.C., Roussel Laboratories Ltd., Kingfisher Drive, Covingham, Swindon, Wiltshire, England.


See RLL.

Rocky Mountain Laboratory, Hamilton, Mont. 59840 U.S.A.

Roussel Research Center (U.C.L.A.F.), 111 route de Noisy, Romainville, Seine, France. Also UCLAF.

Societe des Usines Chimiques, Rhone-Poulećc, 9 quai Jules Guesde, a Vitry sl Seine F-94400 Seine or 22 Avenue Montaigne, Paris 8, France. DS is used as a sigla for strain designations. Also Rhone-Poulenc and DS.

Roswell Park Memorial Institute, 666 Elm St., Buffalo, N.Y. 14263 U.S.A.

Rubber Research Institute, Ceylon.

Rubber Research Institute, Malaya.

Rancho Santa Ana Botanic Garden, Claremont, Calif. 91711 U.S.A.

Central Research Division, Research Laboratories, Takeda Chemical Industries, Ltd., 27 Dosho-machi, 2 Higashi-ku, Osaka, 532 Japan or 17-85, Jusohonmachi 2-chôme, Yodogawa-ku.

Research and Training Institute, Mlingano, Private Bag, Ngomeni, Tonga, Tanzania.

Rockefeller University, New York, N.Y. 10021 U.S.A.

MRC Experimental Radiopathology Unit, Hammersmith Hospital, London 12 OHS, England.

Department of Plant Pathology and Mycology Rutgers University, New Brunswick, N.J. 08903 U.S.A.

Sankyo Co., Ltd., Japan.

Societe des Usines Chimiques, Rhone-Poulećc, 9 quai Jules Guesde, a Vitry sl Seine F-94400 Seine or 22 Avenue Montaigne, Paris 8, France. DS is used as a sigla for strain designations. Also Rhone-Poulenc and DS.

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Central Research Division, Research Laboratories, Takeda Chemical Industries, Ltd., 27 Dosho-machi, 2 Higashi-ku, Osaka, 532 Japan or 17-85, Jusohonmachi 2-chôme, Yodogawa-ku.

Research and Training Institute, Mlingano, Private Bag, Ngomeni, Tonga, Tanzania.

Rockefeller University, New York, N.Y. 10021 U.S.A.

MRC Experimental Radiopathology Unit, Hammersmith Hospital, London 12 OHS, England.

Department of Plant Pathology and Mycology Rutgers University, New Brunswick, N.J. 08903 U.S.A.

Sankyo Co., Ltd., Japan.

or

Natural History Rijksmuseum Avd., Stockholm, Sweden.
SAG Collection of Algal Cultures, University of Göttingen, Göttingen, Federal Republic of Germany.

or Schering, A. G., Berlin, Germany.

SAJ Society for Actinomycetes, Japan, Department of Microbiology, Institute of Microbial Chemistry, 14-23, Kamiosaki 3-chôme, Shinagawa-ku, Tokyo 141, Japan.

SAN Laboratory of Phytopathology, Institute of Plant Health, Paseo Colon 922,2° Piso, Buenos Aires, Argentina, S.A.

SANDOZ Sandoz, Basle, Switzerland.

SANK See Sankyo.

Sankyo Central Research Laboratories, Sankyo Company Ltd., 2-58, Hiro-machi, 1-chôme, Shinagawa-ku, Tokyo, 140 Japan. Also SANK.

SAOE Agronomy and Enology Station, Bordeaux, France.

SARC Microbiology Section, Plant Protection Research Institute, Private Bag 134, Pretoria, Union of South Africa.

SBMP Research Laboratory of Dairy Science, Snow Brand Milk Products Company, Ltd., Sapporo, Japan.

SC Culture Collection, Squibb Institute for Medical Research, E. R. Squibb and Sons, Division of Olin Mathieson Chemical Corporation, New Brunswick, N.J. 08903 U.S.A. Also Squibb and SQ.

or Sumitomo Chemical Company.

SCH Antibiotics Department, Schering Corporation, 60 Orange Street, Bloomfield, N.J. 07003 U.S.A. Also SCHER and Sch.

Sch See SCH and Schenley.

Schenley Schenley Laboratories, Inc., Lawrenceburg, Ind. 47025 U.S.A. Also as Sch.

SCHER See SCH.

SCIBP Special Committee for the International Biological Program.

SEARLE G. D. Searle and Co., Chicago, Ill. 60680 U.S.A.

SEATO SEATO Medical Research Laboratory, Bangkok, Thailand.

SECS Serdica State Economic Corporation, Sofia, Bulgaria.

SEFF Fruittree Culture Substation, Farraouphila, Brazil, S.A.
Section of Agricultural Microbiology, Secretary of Agriculture, Porto Alegre Rs., Brazil, S.A.

Sericultural Experimental Station, Tokyo, Japan.

Federal Station for Testing Cultures, Lausanne, Switzerland.

Federal Station for Viticultural and Arboricultural Testing, Lausanne, Switzerland.

Phytopathological Service, Secretary of Agriculture, AV, Julio de Castillos 585, Porto Alegre, Rio Grande do Sul, Brazil, S.A.

San Francisco State University Herbarium, San Francisco, Calif. 94312 U.S.A.

VEB Schott & Gen., Jena 69, East Germany.

General Water Society, Barcelona, Spain. See SRL.

See SRL.

Shimane Industrial Experimental Station, Matsue, Japan.

Statens Institutt for Folkchelse, Oslo, Norway.

Industrial Society for the Manufacture of Antibiotics, France.

National Institute of Public Health, Oslo, Norway.


Scripps Institution of Oceanography, La Jolla, Calif. 92307 U.S.A.

Institute of Science and Industrial Research, Osaka, Japan.

Sugar Industry Research Institute, Mauritius.

L.A. Tasassevich State Research Institute for Standardization and Control of Medical Biological Preparations, Moscow G-2, U.S.S.R.

Smithsonian Institution, Washington, D.C. 20560 U.S.A.

D. N. Pryanishnikova Agricultural Institute, 614000, Perm', U.S.S.R.

Stuttgart-Korntaler Collection, Mycological-Bacteriological Arbeitsgemeinschaft, Staudtstrasse 19, Korntal b. Stuttgart, Germany.

Faculty of Science, Kyoto University, Kyoto, Japan.
SMBA Scottish Marine Biological Association, Dunstaffnage Marine Research Laboratory, P.O. Box No. 3, Ofan, Argyll PA34 4AD Scotland.

SMG Sammlung für Mikroorganismen Göttingen, Cosslerstr. 16, 34 Göttingen, Federal Republic of Germany.

Smith See NRS.

SMKU School of Medicine, Keio University, Tokyo, Japan.

SOE Servicio Oleiocola, Encantado, Brazil, S.A.

Sörgel Collection of G. Sörgel, Institute for Microbiology, Humboldt University, Kleinmachnow, East Germany.

SOU Faculty of Science, Osaka University, Osaka, Japan.

SPL Department of Bacteriology, State Laboratory for Soil and Crop Research, Lyngby, Denmark.

SP-WISC School of Pharmacy, University of Wisconsin, Madison, Wis. 53706 U.S.A.

SQ See SC.

Squibb See SC.

SRI The Scientific Research Institute, Ltd., Sumiki Laboratory, Tokyo, Japan.

SRL Shionogi Research Laboratory, Shionogi and Co., Ltd., 12-4, Sagisu, 8-chōme Fukushima-ku or 2407 Sagisu-kamidori, Fukushima-ku, Osaka, 553 Japan. Also Shionogi, SHIONOGI, and SHIO.

SRMS Station of Research and Soil Microbiology, 7 rue Sully-21-Dijon, France.

SRS Sericultural Research Station, Ales, France.

SS See SSIC.

SSES Sericultural Experiment Station, Taitama Prefecture, Japan.

SSIC State Serum Institute, Copenhagen, Denmark.

STMPR School of Tropical Medicine, Puerto Rico.

STO Sapporo Taxation Office, Hokkaido, Sapporo, Japan.

SU Australian Inoculant Research and Control Service, Department of Agriculture, P.M.B. 10, Rydalmere, New South Wales 2116, Australia.

SVÚ State Veterinary Laboratories, Czechoslovakia.

SY Research Laboratories, Syntex, S.A., Mexico, D.F.

SYRF Herbarium, College of Environmental Science and Forestry, State University of New York, Syracuse, N.Y. 13210 U.S.A.
Bacteriology Laboratory, Department of Agriculture, Launceston, Tasmania, Australia.


Tokyo Agricultural University, Tokyo, Japan.

Tokyo Biochemical Research Institute 2-593, Takadaminami-cho, Toshima-ku, Tokyo, Japan.

Thaxter Collection, Farlow Herbarium, Harvard University, Boston, Mass. 02115 U.S.A.

Department of Biological Sciences, Technological College, Prague, Czechoslovakia.

Type Culture Collection, John McCormick Institute, Chicago, Ill. 60604 U.S.A. (Fore-runner of ATCC.)

Technical Development Establishment Laboratory, Kanpur, India.

Technical High School, Delft, Netherlands.

Laboratory for Microbiology, Technical High School, Delft, Netherlands.

Department of Fermentation Technology, Hiroshima University, 3-chôme, Sendacho, Hiroshima-city, Japan.

Herbarium of the Department of Botany. Faculty of Science, University of Tokyo, Tokyo, Japan.

Laboratory of Biological Chemistry, Tokyo Institute of Technology, Ohokayama 1, Meguro-ku, Tokyo, 152 Japan.

Tokyo Jikeikai Medical School, Tokyo, Japan.

Tokai-Kinki National Agricultural Experiment Station, Tsu, Japan. Also TNAES.

Faculty of Technology, Kyoto University, Kyoto, Japan.

Trebuch Laboratory, Boger, Indonesia.

Trebuch Laboratory, Buitenzorg, Java.

Tokyo-to Laboratory for Medical Sciences, Tokyo, Japan.

Trudeau Mycobacterial Culture Collection, Mycobacterial Culture Collection, National Jewish Hospital and Research Center, 3800 East Colfax Ave., Denver, Colo. 80206 U.S.A. (Formerly Trudeau Institute, Saranac Lake, New York, N.Y.)

See TKA.

Botanical Institute, University of Turin, Turin, Italy.
TOT Laboratory of Applied Microbiology, Faculty of Agriculture, Tottori University, Japan.

TPI Tropical Products Institute, 56-62 Gray's Inn Road, London WC1, England.

TRIC Tea Research Institute, Ceylon.

TRL Timber Research Laboratory, Johannesburg, Union of South Africa.

TRTC Department of Botany, University of Toronto, Toronto, Ontario, Canada.

TSUA (ЦЧА) University of Toronto Cryptogamic Herbarium, University of Toronto, Toronto, Ontario, Canada.

TSES See TSKHA.

TSGNKI (ЦГНКИ) Taiwan Sugar Experimental Station, Taiwan, China.

TSKHA (ЦХА) Tarsevich Central Government Scientific Institute, Sivtsev-Vrazhek, 41, Moscow, U.S.S.R.

TSM National Science Museum, Tokyo, Japan. Also NSM.

TSMP (ЦМП) V. V. Dokuchaeva, Central Museum of Soil Science, Birzhevoy Proezd. 6, Leningrad, B-164, 199164 U.S.S.R.

TSNIIMOD (ЦНИИМОД) Central Scientific-Research Institute of Mechanical Cultivation, Laboratory of Proving Grounds, Tests and Antiseptics, 141500 Solnechogorsk, obl., ul. Lesnaya, Moscow, U.S.S.R.


TSNIISK (ЦНИИСК) V. A. Kucherenko, Central Scientific-Research Institute of Building Construction 109389, 2-ya Institutskaya ul., 6, Moscow Z-389, U.S.S.R.

TSURUMI Tsurumi Chemical Research Laboratories, Yokohama, Japan.

TU See MTHU.
TUAT  Faculty of Agriculture, Tokyo University of Agriculture & Technology, Fuchu, Japan.

TUF  Bacterial Laboratory, Tokyo University of Fisheries, Tokyo, Japan.

U  Department of Microbiology, Agricultural College, Ultuna S-75007, Upplands Väsby, Sweden.  
or  Botanical Museum and Herbarium, Utrecht, Netherlands.

UA  Agricultural Chemistry of Soil, University of Arizona, Tucson, Ariz.  85721  U.S.A.

UAB  University of Aston in Birmingham, Birmingham, England.

UAMH  Mold Herbarium and Culture Collection, University of Alberta, Edmonton, Alberta, Canada.

UB  Botanical Garden, Ernst-Moritz-Arndt University, Greifswald, East Germany.  
or  Institute of Organic Chemistry, University of Basle, Basle, Switzerland.

UBC  University of British Columbia, Canada or Culture Collection, Department of Botany, University of British Columbia, Vancouver 8, British Columbia, Canada.

UC  Department of Bacteriology, University of California, Davis, Calif.  95616  U.S.A.  
or  Institute of Plant Pathology, Universita Cattolica del S. Curoe, Piacenza, Italy.  
or  University of Colorado, Denver Center, Denver, Colo.  80202  U.S.A.  
or  Culture Collection, The Upjohn Company, Kalamazoo, Mich.  49001  U.S.A.  Also Upjohn.

UCBD  Biochemistry Department, University of California, Berkeley, Calif.  94720  U.S.A.

UCBPP  Department of Plant Pathology, College of Natural Resources, Agricultural Experiment Station, University of California, 147 Hilgard Hall, Berkeley, Calif.  94720  U.S.A.

UCCA  Division of Bacteriology, Agricultural Experiment Station, College of Agriculture, University of California, Davis, Calif.  95616  U.S.A.
UCH School of Medicine, University of Chicago, Chicago, Ill. 60637 U.S.A.

or Department of Bacteriology, University College Hospital Medical School, University Street (Gower Street), London, England.

UCLAF See Roussel.

UCST Department of Microbiology, Institute of Medical-Biological Sciences, University of Concepción, Cassilla 272, Concepción, Chile, S.A.

UCT Department of Fermentation, University of Chemical Technology, Prague, Czechoslovakia.

UCW Department of Agricultural Botany, University College of Wales, Penglais, Aberystwyth, Wales.

UD Culture Collection of Hydrocarbon Utilizers and Suspect Utilizers, Department of Biology, University of Dayton, Dayton, Ohio 45409 U.S.A.

or Department of Food Science and Technology, University of California, Davis, Calif. 95616 U.S.A.

UEM See IEM.

UEMP Regulations Epidemiology and Microbiology, Prague, Czechoslovakia.

UFC United Fruit Company, Norwood, Mass. 02062 U.S.A.

UG University of Göttingen, Göttingen, Federal Republic of Germany.

UGS University of Geneva, Ginsbra, Switzerland.

UHJP Hebrew University, Jerusalem, Palestine.

UI University of Illinois, Champaign-Urbana, Ill. 61801 U.S.A.

or University of Indiana, Bloomington, Ind. 47401 U.S.A.

or College of Pharmacy, University of Iowa, Iowa City, Iowa 52240 U.S.A.

UIFI (УИФИ) The Ukranian Research Institute of Food Industry, Kharkov, Ukr., S.S.R.

UJEP University of J. E. Purkyně, Brno, Czechoslovakia. Also see PU.

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
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<tbody>
<tr>
<td>UkrNIPP</td>
<td>Ukrainian Scientific-Research Institute 31000, Pishchevoy Promyshienosti,</td>
</tr>
<tr>
<td></td>
<td>Sumskaya 3, Klochkovskaya, 368 Kharkov, GSP, Ukr.S.S.R.</td>
</tr>
<tr>
<td>UL</td>
<td>University of Louvaine, Louvaine, Belgium.</td>
</tr>
<tr>
<td>ULM-KU</td>
<td>Institute of Medical Microbiology, Charles University, Prague, Czechoslovakia.</td>
</tr>
<tr>
<td>UM</td>
<td>University of Minnesota, Minneapolis, Minn. 55455 U.S.A.</td>
</tr>
<tr>
<td>UMCK</td>
<td>University of Microbial Cultures, Kumasi, Department of Biological Sciences, University of Science and Technology, Kumasi, Ghana.</td>
</tr>
<tr>
<td>U.Md.</td>
<td>University of Maryland, College Park, Md. 20740 U.S.A.</td>
</tr>
<tr>
<td>UMH</td>
<td>University of Missouri Herbarium, Columbia, Mo. 65201 U.S.A.</td>
</tr>
<tr>
<td>UNC</td>
<td>Chair of Agrarian and Industrial Microbiology, Faculty of Agrarian Science, National University of Cuyo, Mendoza, Argentina, S.A.</td>
</tr>
<tr>
<td>UNCC</td>
<td>J. M. Couch Culture Collection, University of North Carolina, Raleigh, N.C. 27514 U.S.A.</td>
</tr>
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</table>

or

Actinoplanaceae Culture Collection of University of North Carolina, Chapel Hill, N.C. 27514 U.S.A.

<table>
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<tr>
<th>Abbreviation</th>
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<tr>
<td>UNDP</td>
<td>United Nations Development Program.</td>
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<tr>
<td>UNEP</td>
<td>United Nations Environmental Program.</td>
</tr>
<tr>
<td>UNIDO</td>
<td>United Nations Industrial Development Organization.</td>
</tr>
<tr>
<td>UNL</td>
<td>Department of Plant Pathology, University of Nebraska, Lincoln, Nebr. 68583 U.S.A.</td>
</tr>
<tr>
<td>UNT</td>
<td>Institute of Microbiology, National University of Tucumán, Ayacucho 482, San Miguel de Tucumán, Argentina, S.A.</td>
</tr>
<tr>
<td>UNUT</td>
<td>Department of Microbiology, The Medical School, University of Newcastle upon Tyne, Newcastle upon Tyne NE1 7RU, England.</td>
</tr>
<tr>
<td>UO</td>
<td>University of Oglethorpe, Atlanta, Ga. 30319 U.S.A.</td>
</tr>
<tr>
<td>UP</td>
<td>University of Pavia, Pavia, Italy.</td>
</tr>
<tr>
<td>UPA</td>
<td>University of Pennsylvania, Philadelphia, Pa. 19174 U.S.A.</td>
</tr>
<tr>
<td>Upjohn</td>
<td>See UC.</td>
</tr>
<tr>
<td>UPS</td>
<td>Institute for Systematic Botany, Uppsala, Sweden.</td>
</tr>
<tr>
<td>UQ</td>
<td>Department of Microbiology, University of Queensland, Brisbane, Australia.</td>
</tr>
</tbody>
</table>
UQM  Culture Collection, Department of Microbiology, University of Queensland, Brisbane, Australia

URM  See IMUFPe.

USAMSGS  U.S. Army Medical Services Graduate School, Washington, D.C.  20012  U.S.A.

USDA  United States Department of Agriculture, Washington, D.C.  20250  U.S.A.

Plant and Entomological Sciences, Beltsville Agricultural Research Center, ARS, USDA, Beltsville, Md.  20705  U.S.A. (Formerly Plant Industry Station.)

USDI  United States Department of the Interior, Washington, D.C.  20242  U.S.A.

USFB  Faculty of Biology, University of Sofia, Sofia, Bulgaria.

USFCC  United States Federation for Culture Collections.

USMA  University of Sheffield, Sheffield, England.

USMH  University of Sheffield, Mycological Herbarium, Sheffield, England.

USOL  Institute of Sera and Vaccines, Prague, Czechoslovakia.

USPH  See USPHS.

USPHS  United States Public Health Service. Also USPH.

USSB  Department of Microbiology, University of Agricultural Sciences, Bangalore-24, India.

USSR, ARI  See ARI.

(UCCP, AП)  The U.S.S.R. Research Institute for Plant Protection, Leningrad, U.S.S.R.  See also VIZR.

(UCCP ИПП)  See RIA.

(UCCP РИА)  University of Trujillo.

UT  Myxomycete Collection, University of Texas, Austin, Tex.  78712  U.S.A.

UTMC  Department of Microbiology, University of Umea, Umea, Sweden.

UU  University of Wisconsin, Madison, Wis.  53706  U.S.A.

UW  University of Waterloo, Waterloo, Canada or Yeast Culture Collection, Australian Wine Research Institute, Waite Road, Urrbrae, South Australia; Private Mail Bag, Glen Osmond, South Australia 5064 (formerly, Waite Institute Yeast Culture Collection, The Australian Wine Research Institute).

or

University of Wisconsin, Madison, Wis.  53706  U.S.A.
UWA  Department of Soil Science and Plant Nutrition, Institute of Agriculture, University of Western Australia, Nedlands, Western Australia 6009, Australia.

UWCA  College of Agriculture, University of Wisconsin, Madison, Wis. 53706 U.S.A.

UWO  University of Western Ontario Culture Collection, Botany Department, University of Western Ontario, London, Ontario, Canada.

UWSM  Department of Microbiology, School of Medicine, University of Washington, Seattle, Wash. 98105 U.S.A.

VA  Veterinary Academy, Ministry of Agricultural Economics, 109378, Kuz'minskaya ul. 23, Moscow ZH-278, U.S.S.R.

(BA)  See also USSR IPP.

VEB  Veterinary Faculty, University of Agriculture, Jena, East Germany.

VFB  Veterinary Faculty, University of Agriculture, Brno, Czechoslovakia.

VI  Veterinary Institute, Sofia, Bulgaria.

VIZR  All-Union Institute for Plant Protection, ul. Gertsena, 42, 19000 Leningrad, U.S.S.R.

(BI3RP)  See also USSR IPP.

VKF  Veterinary Faculty, University of Agriculture, Kosice, Czechoslovakia.

VKM  All-Union Collection of Nonpathogenic Microorganisms. Institute of Microbiology, Academy of Sciences, Profsoyuznaya 7-a, Moscow 117312, U.S.S.R. Also as INMI, VKMW and IMAN.

(BKM)  See INMI and VKM.

VKMW  All-Union Scientific-Research Institute of Physiopathology, St. Golitsino, Moscow, U.S.S.R.

VNII Bakpreparatov  All-Union Scientific-Research Institute for Plant Protection by Microbiological Methods and Bacteriological Preparations, 105122, Konyushkovskaya ul. 31, Moscow E-122, U.S.S.R.

(BNIIFR)  See INMI and VKM.

VNIII Genetika  All-Union Scientific-Research Institute of Genetics and Selection of Industrial Microorganisms. 113545, Moscow, U.S.S.R.

(BNIIGenetika)  See INMI and VKM.

VNII Gidroliz  All-Union Scientific-Research Institute for Hydrolysis of Vegetable Materials. 190000, Pudozhskaya ul. 7, Leningrad, U.S.S.R.

(BNIIGidroliz)  See INMI and VKM.

VNII IMP  All-Union Scientific-Research Institute for the Dairy Industry, 113093, Lyusinovskaya ul. 35, Moscow M-93, U.S.S.R.

(BNIIMP)
VNIIM VASCHNIL (ВНИИМ ВАСЧНИЛ) All-Union Scientific Research Institute s.ch., Microbiology, VASCHNIL, Moscow, U.S.S.R.

VNIIs/khM (ВНИИс/хм) All-Union Scientific Research Institute of Agricultural Microbiology, 109000, ul. Gertsera, 42, Leningrad, U.S.S.R.  Also VNIIs/khM-L. See VNIIIs/khM.

VNIIs/khM-L (ВНИИс/хМ-Л) All-Union Scientific-Research Institute of Agricultural Microbiology, Konyushkovskaya, d. 31, Moskovskoe Otdelenie, Moscow, U.S.S.R.

VNIIs/khM-M (ВНИИс/хМ-М) All-Union Scientific-Research Institute of the Alcohol and Liqueur Industry, 109033, Samokatkaya ul., 46, Moscow, ZH-33, U.S.S.R.

VNIISP (ВНИИСП) All-Union Scientific-Research Institute for the Biosynthesis of Protein Substances, 109004, Bol'shaya Kommuristicheskaya ul. 27, Moscow ZH-4, U.S.S.R.

VNIISVIV (ВНИИСВиВ) All-Union Scientific-Research Institute of Agriculture, Viniculture and Winemaking, Ministry of Agricultural Economics. 380015, Tbilisi 15, Georg. SSR.

VNIIViV MoldSSR (ВНИИВиВ МолдССР) All-Union Scientific-Research Institute for Horticulture, Viniculture and Winemaking. 227000, Fruktovaya ul. 14, Kishiner, Mold. SSR.


or Moscow Filial, 121471, ul. Ryabinovaya, 53, Moscow G-471, U.S.S.R.

VNIIVS (ВНИИВС) All-Union Scientific-Research Institute of Veterinary Sanitation. 123022, Zvenigorodskoe Shosse, 5, Moscow D-22, U.S.S.R.

VNIIMI (ВНИИМИ) All-Union Scientific-Research Institute of the Dairy Industry, Lyucinovskaya, 35, Moscow, U.S.S.R.

VNIIVI (ВНИИВИ) All-Union Scientific-Research of Vitamins Institute, Novokuznetskaya, d.7, Moscow, U.S.S.R.

VPI Anaerobe Culture Collection, Virginia Polytechnic Institute and State University, P.O. Box 49, Blacksburg, Va. 24060 U.S.A.

VRI Veterinary Research Institute, Brno, Czechoslovakia.

VSB (ВСБ) All-Union Scientific-Research Institute for the Biosynthesis of Protein Substances, 109004, Bol'shaya Kommuristicheskaya ul. 27, Moscow ZH-4, U.S.S.R.

VSCHT Faculty of Chemistry, Technical University, Prague, Czechoslovakia.

VT Fungus Culture Collection, Virginia Polytechnic Institute and State University, Blacksburg, Va. 24060 U.S.A.
VUHEM  Army Research Institute for Hygiene, Epidemiology and Microbiology, Prague, Czechoslovakia.

VUKP  Research Institute for Distillery and Canning Industry, Prague, Czechoslovakia.

VUL  Department of Veterinary Pathology, University of Liverpool, Liverpool, England.

VUPT  Research Institute for Food Technology, Prague, Czechoslovakia.

WACRI  Cocoa Research Institute of Ghana. (Formerly West African Cocoa Research Institute.)

WADC  Wright Air Development Center, Dayton, Ohio 45433  U.S.A.

WAIFOR  West African Institute for Oil Palm Research.

WB  Department of Bacteriology, College of Agriculture, University of Wisconsin, Madison, Wis. 53706  U.S.A.

WC  Waksman Collection, Waksman Institute of Microbiology, Rutgers University, New Brunswick, N.J. 08903  U.S.A.

Wellcome  See WRL.

WES  Woburn Experimental Station, Bletchley, Bucks, England.

WFEB  Worcester Foundation for Experimental Biology, Shrewsbury, Mass. 01545  U.S.A.

WFPL  Western Forest Products Laboratory, Department of the Environment, Canadian Forestry Service, Vancouver, British Columbia V6T 1X2, Canada.

WHO  World Health Organization, Avenue Appia, 1211, Geneva, Switzerland.

WHO/CCBC  See BGSC.

WINDSOR  Culture Collection, University of Windsor, Windsor, Ontario, Canada.

WIPO  World Intellectual Property Organization.

WISC  Wisconsin Strain, University of Wisconsin, Madison, Wis. 53706  U.S.A.

WKS  Waksman. See WC.

WLRI  Warner Lambert Research Institute, Morris Plains, N.J. 07950  U.S.A.


WRAIR  Walter Reed Army Institute of Research, Washington, D.C. 20012  U.S.A.

WRL  Burroughs Wellcome Research Laboratories, Beckenham, Langley Court, Kent, England. Also Wellcome.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>WRRC</td>
<td>Western Regional Research Center. See WRRL.</td>
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<tr>
<td>WRRL</td>
<td>Western Regional Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Albany, Calif. 94710 U.S.A. (Formerly referred to as Western Marketing and Nutrition Research Division or Western Utilization Research and Development Division.) Also as WRRC and WURB.</td>
</tr>
<tr>
<td>WS</td>
<td>Collection of the Bacteriological Institute of the Technical University, Munsh, Germany at Weihenstephan.</td>
</tr>
<tr>
<td>WTU</td>
<td>Herbarium, University of Washington, Seattle, Wash. 98105 U.S.A.</td>
</tr>
<tr>
<td>WURB</td>
<td>See WRRL.</td>
</tr>
<tr>
<td>WUSM</td>
<td>Department of Microbiology, School of Medicine, Washington University, St. Louis, Mo. 63130 U.S.A.</td>
</tr>
<tr>
<td>WVU</td>
<td>Anaerobe Collection, West Virginia University, Morgantown, W. Va. 26506 U.S.A.</td>
</tr>
<tr>
<td>Wyeth</td>
<td>Wyeth Laboratories, Inc., 611 East Nield Street, West Chester, Pa. 19380 U.S.A.</td>
</tr>
<tr>
<td>YCC</td>
<td>Yeast Culture Collection, Department of Food Technology, University of California, Davis, Calif. 95616 U.S.A.</td>
</tr>
<tr>
<td>YFI</td>
<td>Yamanashi Fermentation Institute, Yamanashi University, Kofu, Japan. See RIFY.</td>
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<tr>
<td>YMC</td>
<td>Yamaguchi Medical College, Abe, Japan.</td>
</tr>
<tr>
<td>YP</td>
<td>Tokyo Institute, Yamanouchi Pharmaceutical Company, Ltd., Tokyo, Japan.</td>
</tr>
<tr>
<td>YPMC</td>
<td>Microbial Institute, Yamaguchi Prefectural College of Medicine, Tokuyama, Japan.</td>
</tr>
<tr>
<td>YU</td>
<td>Yale University, New Haven, Conn. 06520 U.S.A.</td>
</tr>
<tr>
<td>YUK</td>
<td>Faculty of Engineering, Yamanashi University, Kofu, Japan.</td>
</tr>
<tr>
<td>ZIKL</td>
<td>Zavod za Ispitivanje e Kontrolu Liekova, Zagreb, Yugoslavia.</td>
</tr>
<tr>
<td>ZIL- (ЗИЛ)</td>
<td>Zoological Institute, Academy of Science, 199164, Universitetskaya nab., 1, Leningrad V-164, U.S.S.R.</td>
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