

Таблица 3. Методы и их комбинации, используемые для длительного хранения культур водорослей и цианобактерий в коллекциях Всемирной федерации культур (WFCC) в базе WDCM CCINFO

Table 3. Methods and their combinations used for long-term storage of cultures of algae and cyanobacteria in the collections of the World Federation of Cultures (WFCC) in the WDCM CCINFO database

№	Акроним коллекции	№ в WDCM	Полное название коллекции	Методы хранения	Количество штаммов	
					водо-рослей	циано-бакте-рий
1	ACOI	906	Algoteca de Coimbra / Coimbra Collection of Algae, Portugal	Ж, К	4000	
2	ABKMI	698	Department of Applied Biology, Faculty of science, Thailand	Ж	8	
3	ABRIICC	843	AIICC Agricultural Biotechnology Research Institute of Iran Culture collection, Iran	Ж, Л, З, К	10	
4	ACC	1112	ABRII culture collection, Iran	Ж	41	
5	ACCS	936	Algae Culture Collection of Siberia, Russian Federation	Ж	90	
6	ACKU	994	Culture Collection of Algae at Kyiv University, Ukraine	Ж, О	1023	
7	ACSSI	1132	Algal Collection of Soil Science Institute, Russian Federation,	Ж	198	60
8	ACUF	1074	Algal collection at the University "Federico II", Italy	Ж,	500	80
9	ACUS	965	Algal Collection of Sofia University, Bulgaria	Ж	120	5
10	ALCP	792	Algotheque du Laboratoire de Cryptogamie, France	Ж	600	
11	ALEC	1218	Algal Excellent Center, Thailand	Ж, К	500	
12	ALGOBANK	796	ALGOBANK-Caen, France	Ж	481	9
13	AMMRL	42	Australian National Reference Laboratory in Medical Mycology, Australia	Ж	10	
14	ANACC	532	Australian National Algae Culture Collection, Australia	Ж, К	1149	311
15	ARC	1096	Algal Resources Collection, U.S.A.	Ж	718	
16	ASIB	505	Algensammlung am Institut fur Botanik, Austria	Ж	1570	
17	BCAC	1023	Bashkortostan Collection of Algae and Cyanobacteria, Russian Federation	Ж	1006	214
18	BCCM/DCG	1039	BCCM Diatom Collection Gent, Belgium	Ж, К	434	
19	BCCM/ULC	982	BCCM/ULC Culture Collection of (sub)polar cyanobacteria, Belgium	Ж, З	200	
20	BCCUSP	844	Brazilian Cyanobacteria Collection - University of Sao Paulo, Brazil	Ж	215	

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					19	16
22	BDU	976	National Facility for Marine Cyanobacteria, India	Ж	290	
23	BEA	837	Banco Español de Algas - Spanish Bank of Algae, Spain	Ж, З	836	682
24	BOROK	602	The Collection of algae, Russian Federation	Ж	500	
25	BSMB	491	Bacteriology and Soil Microbiology Branch, Thailand	Ж	15	
26	BTCC	632	Biotechnology Culture Collection Institution Pusat Penelitian dan Pengembangan Bioteknologi-LIPI	Ж	7	
27	CALU	461	Collection of Algae St. Petersburg (Leningrad) State University, Russian Federation	Ж	483	446
28	CAMU	1158	Collection of Algae at Bohdan Khmelnytskyi Melitopol State Pedagogical University, Ukraine	Ж	100	
29	CAUP	486	Culture Collection of Algae of Charles University in Prague, Czech	Ж, К	252	
30	CCAC	807	Culture Collection of Algae at the University of Cologne, Germany	Ж	2061	
31	CCALA	905	Culture Collection of Autotrophic Organisms, Czech	Ж, К	499	345
32	CCAP	522	Culture Collection of Algae and Protozoa, U.K.	Ж, К	2500	
33	CCBA	914	Culture Collection of Baltic Algae at the University of Gdansk, Poland	Ж	200	30
34	CCCryo	940	Culture Collection of Cryophilic Algae, Germany	Ж, К	389	10
35	CCCS	1024	Culture Collection of Ciliates and their Symbionts, Russian Federation	Ж	400	
36	CCMA-UFSCar	835	Freshwater Microalgae Collection Cultures, Brazil	Ж	475	25
37	CCMR	1214	Culture Collection of Microorganisms, Brazil	Ж, К, З	20	20
38	CCOS	944	Culture Collection of Switzerland, Switzerland	Ж, З, Л, К		15
39	CCTCC	611	China Center for Type Culture Collection, China	Ж, Л, К, З	2	212
40	CICCM	1042	Cawthron Institute Culture Collection of Micro-Algae, New Zealand	Ж, К	223	175
41	CM	1033	Chroococcus minor, India	Ж		9
42	CMAA	1149	Collection of Microorganismos of Agricultural and Environmental Importance, Brazil	З	10	

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43	CMBGCAS	794	Collection of Marine Biological Germplasm, China	Ж, Л	138	
44	CMCC(B)	123	National Center for Medical Culture Collections, China	Л	4000	
45	CM-CNRG	1006	Collection de Microorganismos del Centro Nacional de Recursos Genéticos, Mexico	Ж, К, З, Л, Л		600
46	CMM-RNAM	1011	RNAM Center for Marine Microbiology, CAS, China	Ж	30	
47	COSMI	1209	Collection of Sea Microorganisms, Italy	Ж	136	
48	CPCC (formerly UTCC)	605	Canadian Phycological Culture Centre (formerly University of Toronto Culture Collection of Algae & Cyanobacteria), Canada	Ж, К	277	103
49	CRBIP	925	Centre de Ressources Biologiques de l'Institut Pasteur, France	Ж, К, З		750
50	CSC-CLCH	631	Biobanking of Veterinary Resources, Italy	Ж, К, З, Л	30	
51	CSMA	147	Centro di Studio dei Microorganismi Autotrofi – CNR, Italy	Ж	58	69
52	CWU-MACC	886	Herbarium of Kharkov University (CWU) – MicroAlgae Cultures Collection, Ukraine	Ж	22	
53	DBKKU2	688	Department of Biology, Faculty of Science, Thailand	Ж	10	
54	DBUM;IPT	765	Department of Biochemistry, Faculty of Medicine, University of Malaya, Malaysia	Ж	300	
55	DBUP	444	Algal Culture Collection, Philippines	Ж	20	
56	DGUB	657	Department of Genetics, University of Bratislava, Slovak	Ж, З	120	
57	EGE-MACC	845	Ege – Microalgae Culture Collection, Turkey	Ж, К	43	
58	FACHB	873	Freshwater Algae Culture Collection, Chinese Academy of Sciences, China	Ж, К	1138	
59	GCC	1165	Global Collection of Cyanobacteria, India	Ж		20
60	HAMBI	779	HAMBI Culture Collection, Finland	Ж, К		1000
61	HGMCC	1175	Hebei Province General Microbiological Culture Collection Center, China	Л, К,	50	
62	IAM	190	IAM Culture Collection, Japan	З, Л, К, Ж	457	
63	IBRC	950	Iranian Biological Resources Center, Iran	Ж, З	93	64
64	IBSS	1201	Collection of living cultures of plankton microalgae, Russian Federation	Ж	50	10

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65	ICBB	842	ICBB Culture Collection for Microorganisms and Cell Culture, Indonesia	Ж, З	20	
66	ICBB	843	ICBB Culture Collection for Microorganisms and Cell Culture, Indonesia	Ж, З	20	
67	ICEBB	1215	Indonesian Centre for Extremophile Bioresources and Biotechnology, Indonesia	Ж	3	
68	IFRPD	676	Institute of Food Research and Product DevelThailandopment, Kasetsart University, Thailand	Ж	200	
69	IIBM-UNAM	48	Industrial Culture Collection, Mexico	Ж, Л	10	
70	IOUSP	728	Marine Microalgae Culture Collection, Brazil	Ж	235	
71	IPPAS	596	Culture Collection of Microalgae IPPAS, Russian Federation, Moscow	Ж, К	300	
72	ISE-FI	1098	ISE-Photosynthetic Microorganism Culture Collection (ISE-PMCC), Italy	Ж	15	15
73	ISRI	630	Indonesian Sugar Research Institute, Pusat Penelitian Perkebunan Gula Indonesia, Indonesia	Ж	10	
74	ITBCC	44	Institute of Technology Bandung Culture Collection, Indonesia	Ж	12	
75	JCM	567	Japan Collection of Microorganisms, Japan	Ж	22	
76	KCCC	969	Culture Collection of Soybean Rhizobia and Cyanobacteria, Thailand	Ж		432
77	KCTC	597	KCTC Korean Collection for Type Cultures, Korea (Rep. of)	Ж, К	1313	
78	KMMCC	894	Korea Marine Microalgae Culture Center, Korea (Rep. of)	Ж, К	1299	
79	LCF-FURG	1086	La57boratório de Cianobactérias e Fic58otoxinas, Brazil	Ж, Л	41	
80	LEGE	1089	Blue Biotechnology and Ecotoxicology Culture Collection, Portugal	Ж	10	370
81	LMS	530	Carolina Biological Supply Company, U.S.A.	Ж	165	
82	LUCC	1071	Lincoln University Culture Collection, U.S.A.	Ж	220	300
83	MACC	1150	Malaysia Algae Culture Collection, Malaysia	Ж, Л	52	
84	MAO	53	Mircen Afrique Ouest, Senegal	Ж	10	
85	MBIC	831	Marine Biotechnology Institute Culture Collection, Japan	Ж, К	1000	
86	MBMU	665	Institute of Molecular Biology and Genetics, Mahidol university, Thailand	Ж, З		16

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87	MBPCMD	1123	Microbial Bank of the Dr. Panjwani Center for Molecular Medicine and Drug Research, Pakistan	Ж, З	5	
88	MCC-MN	1144	Microalgae Culture Collection, Mongolia	Ж	100	
89	MCC-UPLB	39	Microbial Culture Collection, Philippines	Ж	235	
90	MSCMU	692	Microbiology Section, Chiang Mai University (MSCMU), Thailand	Ж	173	
91	MSUALGDA A	1166	Collection of microalgae, Department of Mycology and algology, faculty of Biology, MSU, Russian Federation	Ж	67	
92	MUACC	598	Murdoch University Algal Culture Collection, Australia	Ж	250	
93	MZCH-SVCK	480	Microalgae and Zygnematophyceae Germany Collection Hamburg	Ж	500	
94	NAIMCC	1060	National Agriculturally Important Microbial Culture Collection, India	Ж	120	
95	NBRC	825	NBRC Culture Collection, Japan	Ж, К	589	
96	NCC	856	Nantes Culture Collection, France	Ж, А	172	
97	NCIM	3	National Collection of Industrial Microorganisms, India	Ж	20	
98	NCMA	2	Provasoli-Guillard National Center for Marine Algae and Microbiota, U.S.A.	К, Ж	2799	
99	NEPCC	535	North East Pacific Culture Collection, Canada	Ж	340	
100	NIBR	1116	National Institute of Biological Resources culture collection, Korea (Rep. of)	Ж	872	
101	NIES	591	Microbial Culture Collection at National Institute for Environmental Studies, Japan	Ж, К	2159	
102	NIVA CCA	498	NIVA Culture Collection of Algae, Norway	Ж	295	823
103	NKC	1078	NOUKOU culture collection, Japan	Ж	550	
104	PCC	481	Pasteur Culture Collection of Cyanobacteria, Paris	Ж, К	500	
105	PGC	641	Peterhof Genetic Collection of Microalgae, Russian Federation	Ж	700	
106	PHBL	508	Philip Harris Biological Ltd., U.K.	Ж	20	
107	PLY	128	Marine Biological Association Culture Collection, U.K.	Ж, К	400	2
108	PNCM-BIOTECH	620	Philippine National Collection of Microorganisms, Philippines	Ж, З, Л	15	
109	PNCM-BIOTECH	620	Philippine National Collection of Microorganisms, Philippines	Ж, З, Л	15	

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110	PTCC	753	Pakistan Type Culture Collections, Pakistan	Ж	20	
111	PTCCI	124	Persian Type Culture Collection, Iran	Ж, К, З, Л, Л	4	1
112	RC CCM	1171	Centre for Culture Collection of Microorganisms, Russian Federation	Ж	28	
113	RC CCM	1171	Resource Centre Culture Collection of Microorganisms, Russian Federation	Ж	28	
114	RCC	829	Roscoff Culture Collection, France	Ж, К	1500	300
115	SAG	192	Sammlung von Algenkulturen at University of Goettingen, Germany	Ж, К	2041	228
116	SCCAP	935	Scandinavian Culture Collection of Algae & Protozoa, Denmark	Ж	2017	48
117	SMRGTISTR	703	Soil Microbiology Research Group, Division of Soil Science, Department of Agriculture, Thailand	Ж	15	
118	Soley	979	Microalgae Culture Collection, Turkey	Ж		
119	SYKOA	1125	Strain collection of microalgae and cyanobacteria from nothern and arctic regions in the Institute of Biology of Komi Scientific Centre, Russian Federation	Ж	170	30
120	SYSU	1176	Sun Yat-Sen University culture collection of microorganisms, China	Ж, К, З	5	
121	TAU-MAC	1156	Thessaloniki Aristotle University Microalgae and Cyanobacteria Collection, Greece(Hellenic Rep.)	Ж, Л	20	65
122	TCC	1030	Thonon Culture Collection, France	Ж	317	128
123	TISTR	383	TISTR Culture Collection, Bangkok MIRCEN, Thailand	Ж	559	
124	UMACC	1059	University of Malaya Algae Culture Collection, Malaysia	Ж, Л, К	224	
125	UTEX	606	The Culture Collection of Algae at the University of Texas Austin, U.S.A.	Ж, К	3061	
126	VBCCA	931	Visva-Bharati Culture Collection Of Algae, India	Ж	50	
127	VCCM	1095	Vietnam Academy of Science and Technology Culture Collection of Microorganisms, Vietnam	Ж	25	

Примечание: Ж – живые культуры (периодический пересев на жидкие и агаризованные среды), К – криоконсервация, Л – лиофилизация, Л – Л-высушивание, О – обезвоживание, З – замораживание, А – альгинатные бусинки, И – иммобилизация на носителях (песок, семена зерновых растений и т.д.)