



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Research Laboratory Sheet

Lab Name	Mycology Laboratory
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Basic Information	
Department	Botany & Microbiology Department
Location	4 th floor - Faculty of Science - Building No. 1
Total area (m ²)	56 m ²
Academic Year	2021-2022

Lab Members

No. of Prof.	No. of Ass. Prof.	No. of Lect.	No. of Ass. Lect. & Demonst.	Researcher
2	0	1	3	2

Staff members

	Name	Scientific degree	e-mail	Specializations	Links
1	Prof. Dr. Mohamed Ahmed Abdel-Wahab Essa	Professor	mohamed.eisa@science.sohag.edu.eg mohamed700906@gmail.com	Marine Mycology	Homepage: http://staffsites.sohag-niv.edu.eg/mohamed.eisa Google scholar https://scholar.google.com.eg/citations?user=BCXpPNcAAAAJ&hl=ar Research Gate https://www.researchgate.net/profile/Mohamed_Abdel-Wahab ORCID ID: https://orcid.org/0000-0002-3176-8675
2	Prof. Dr. Faten Awad Abdel-Aziz Hassan	Professor	fatenabdel-aziz@science.sohag.edu.eg	Mycology	Homepage: https://staffsites.sohag-univ.edu.eg/cv/817?p=cv Google scholar https://scholar.google.com.eg/citations?user=ENlopOkAAAAJ&hl=en&oi=sra ORCID ID: https://orcid.org/0000-0002-0958-2532

3	Dr. Mahmoud Saadeldin Bakhit	Lecturer	mahmoudsaad@science.sohag.edu.eg mahimoda@gmail.com	Mycology	Homepage: https://staffsites.sohag-univ.edu.eg/mahmoudsaad Google scholar https://scholar.google.com.eg/citations?user=VuTVZ3MAAAAJ&hl=en Research Gate: https://www.researchgate.net/profile/Mahmoud-Bakhit ORCID ID: https://orcid.org/0000-0001-9510-1581
Ass. Lecturers & Demonstrators					
	Dr. Ahmed Elbadry Abdel-Aziz	Ph. D	elbadry@science.sohag.edu.eg aahmedelbadry@yahoo.com	Mycology	Research Gate: https://www.researchgate.net/profile/Ahmed-E-Abdel-Aziz ORCID ID https://orcid.org/0000-0001-8809-7174
1	Ali Ahmed Hussein Nourel-Din	Demonstrator	ali_mazen@science.sohag.edu.eg ali_elmazny@yahoo.com	Mycology	Research Gate https://www.researchgate.net/profile/Ali_Mazen ORCID ID: https://orcid.org/0000-0003-3396-1628
2	Asmaa Fathy Mahmoud	Demonstrator	Asmaa.Fathy@science.sohag.edu.eg asmaafathy.5225@g.mail	Mycology	Research Gate: https://www.researchgate.net/profile/Asmaa-Mahmoud-48
Researchers					
1	Gerges Gad Faheem	M. Sc.	gem_gad@yahoo.com	Mycology	
2	Samar Rashad Abul-Ezz	Bachelor	samarrashad803@yahoo.com	Mycology	
3	Warda Aref Osman	Bachelor	sci.warda@yahoo.com	Microbiology	

Research plan for Mycology Laboratory

Isolate and identify fungi and fungi-like from different habitats, study their ecological roles, their systematic positions and their ability to produce secondary metabolites that have medical or commercial values.

Collaborators:

Agricultural research center – Faculties of Medicine – Pharmacy – Agriculture and Archaeology.

Research activities:

- Isolate, identify and study the ecological roles of aquatic fungi isolated from the River Nile, irrigation canals, fresh and saline lakes, Red Sea and Mediterranean seas.
- Isolate, identify and study the ecological roles of Myxomycetes isolated from different habitats in Egypt.
- Isolate, identify and study the ecological roles of Thraustochytrids isolated from marine habitats in Egypt and study their abilities to produce value-added products.
- Study the taxonomy of fungi based on their morphology and DNA sequences of ribosomal and protein genes.
- Study the diversity of fungi based on metagenomics.
- Study the effect of pollution on fungal diversity.
- Isolate and identify bioactive compounds from fungi.
- Biodiesel production from raw materials using fungi.

- Isolate and identify fungi polluting vegetables, fruits and preserved food.
- Isolate and identify endophytic fungi of medicinal plants and study their abilities to produce bioactive compounds.
- Isolated and identify fungi deteriorating archaeology.
- The use of fungi in the bioremediation of wastes and pollutants.
- Participate in solving problems of factories in the Sohag governorate.
- Preserve isolated fungi in the department microbial culture collection.

Theses produced by Mycology lab.

	Title	Approval date
	M.Sc. Thesis	
1	Faheem G. Gerges. Studies on fungemia in patients with hematopoietic malignancies. M.Sc. Thesis, Faculty of Science, Sohag University, Egypt, 147 pp.	2016
2	Abdel-Aziz E. Ahmed. Taxonomical studies on some selected genera of aquatic fungi in Egypt. M.Sc. Thesis, Faculty of Science, Sohag University, Egypt, 166 pp.	2011
3	El-Sharouny A. Mohamed. Ecology and mycoflora of <i>Phragmites australis</i> in Upper Egypt. M.Sc. thesis, Faculty of Science, Sohag University, Egypt, 203 pp.	2010
4	Abdel-Rahmaan S. Heba. Protein pattern and some physiological studies on fungal species isolated from different water sources in Sohag. M.Sc. thesis, Faculty of Science, Sohag University, Egypt, 344 pp.	2009

5	Bakhit S. Mahmoud. Biodiversity and some physiological studies of myxomycetes in Upper Egypt. M.Sc. thesis, Faculty of Science, Sohag University, Egypt, 233 pp.	2008
6	Abdel-Aziz A. Faten. Biodiversity of higher freshwater fungi in the Nile. M.Sc. Thesis, Faculty of Science, South Valley University, Egypt, 223 pp.	2001
7	Abdel-Wahab A. Mohamed. Studies on mangrove-inhabiting fungi of the Red Sea. M.Sc. Thesis, Faculty of Science, South Valley University, Egypt, 184 pp.	1996
	Ph D. Thesis	
1	Abdel-Aziz E. Ahmed. Aquatic fungi in Egypt and their ability to produce bioactive compounds. Ph.D. thesis, Faculty of Science, Sohag University, Egypt, 269 pp.	2019
2	Bakhit S. Mahmoud. Biodiversity of myxomycetes and freshwater fungi in Delta region. Ph.D. thesis, Faculty of Science, Sohag University, Egypt, 322 pp.	2014
3	Abdel-Aziz A. Faten. Biodiversity of aquatic Fungi: from the River Nile to the Sea. PhD thesis, Faculty of Science, South Valley University, Egypt, 125 pp.	2004
4	Abdel-Wahab A. Mohamed. Diversity of fungi in subtropical mangroves. PhD thesis, Faculty of Science, South Valley University, Sohag, Egypt, 247 pp.	2000

Articles produced by Mycology Laboratory

	Title
1	Nourel-Din AAH, Abdel-Aziz FA, Abdel-Wahab MA (2022). <i>Qarounispora grandiappendiculata</i> gen. et sp. nov. (Halosphaeriaceae, Microascales) from Qaroun Lake, Egypt. <i>Phytotaxa</i> 530: 086–094. https://doi.org/10.11646/phytotaxa.530.1.7
2	Abdel-Wahab M.A. , El-Samawaty A.M.A., Elgorban A.M., Bahkali A.H. (2021). Thraustochytrids from the Red Sea mangroves in Saudi Arabia and their abilities to produce docosaheptaenoic acid. <i>Botanica Marina</i> 64: 489-501. https://doi.org/10.1515/bot-2021-0061
3	Bakhit M.S. (2021): The genus <i>Canalisporium</i> (Savoryellaceae) from freshwater habitats in Egypt. – <i>Czech Mycol.</i> 73(2): 163–171 https://doi.org/10.33585/cmy.73204
4	Bakhit, M. S., & Abdel-Aziz, A. E. (2021). <i>Chaetopsina aquatica</i> sp. nov. (Hypocreales, Nectriaceae) from the River Nile, Egypt. <i>Phytotaxa</i> , 511(3), 289-295. https://doi.org/10.11646/phytotaxa.511.3.8
5	Boonmee S, Wanasinghe DN, Calabon M, Huanraluek N, Chandrasiri SKU, Jones EBG, Rossi W, Leonardi M, Singh SK, Rana S, Singh PN, Maurya DK, Lagashetti AC, Choudhary D, Dai YC, Zhao CL, Mu YH, Yuan HS, He SH, Phookamsak R, Jiang HB, Martín MP, Dueñas M, Telleria MT, Kałucka IL, Jagodziński AM, Liimatainen K, Pereira DRS, Phillips AJL, Suwannarach N, Kumla J, Khuna S, Lumyong S, Potter TB, Shivas RG, Sparks AH, Vaghefi N, Abdel-Wahab MA, Abdel-Aziz FA , Li GJ, Lin WF, Singh U, Bhatt RP, Lee HB, Nguyen TTT, Kirk

	PM, Dutta AK, Acharya K, Sarma VV, Niranjana M, Rajeshkumar KC, Ashtekar N, Lad S, Wijayawardene NN, Bhat DJ, Xu RJ, Wijesinghe SN, Shen HW, Luo ZL, Zhang JY, Sysouphanthong P, Thongklang N, Bao DF, Aluthmuhandiram JVS, Abdollahzadeh J, Javadi A, Dovana F, Usman M, Khalid A, Dissanayake AJ, Telagathoti A, Probst M, Peintner U, Garrido-Benavent I, Bóna L, Merényi Z, Boros L, Bratek Z, Stielow JB, Jiang N, Tian CM, Shams E, Dehghanizadeh F, Alidadi A, Pordel A, Javan-Nikkhah M, Denchev TT, Denchev CM, Kemler M, Begerow D, Deng CY, Harrower E, Bozorov T, Kholmuradova T, Gafforov Y, Abdurazakov A, Xu JC, Mortimer PE, Ren GC, Jeewon R, Maharachchikumbura SSN, Phukhamsakda C, Mapook A, Hyde KD (2021) Fungal diversity notes 1387–1511: Taxonomic and phylogenetic contributions on genera and species of fungal taxa. Fungal Diversity 111: 1–330. https://doi.org/10.1007/s13225-021-00489-3 IF: 20.372
6	Abdel- Wahab MA , Bahkali AH, Elgorban AM, Jones EBG (2021). High- throughput amplicon sequencing of fungi and microbial eukaryotes associated with the seagrass <i>Halophila stipulacea</i> (Forssk.) Asch. from Al- Leith mangroves, Saudi Arabia. Mycological Progress 20:1365–1381. https://doi.org/10.1007/s11557-021-01744-2 IF: 2.847
7	Devadatha B., Jones E.B.G., Pang K.L., Abdel- Wahab M.A. , Hyde K.D., Sakayaroj J., Bahkali A.H., Calabon M.S., Sarma V.V., Sutreong S., Zhang S.N. (2021). Occurrence and geographical distribution of mangrove fungi. Fungal Diversity 106:137–227. https://doi.org/10.1007/s13225-020-00468-0 IF: 20.372
8	Abdel-Wahab M.A. , El-Samawaty A.M.A., Elgorban A.M., Bahkali A.H. (2021). Fatty acid production of thraustochytrids from Saudi Arabian mangroves. Saudi Journal of Biological Sciences 28: 855–864. https://doi.org/10.1016/j.sjbs.2020.11.024 IF: 4.219
9	Hodhod M.S., Gaafar A.Z., Alshameri A., Qahtan A.A., Noor A., Abdel-Wahab M.A. (2020). Molecular characterization and bioactive potential of newly identified strains of the extremophilic black yeast <i>Hortaea werneckii</i> isolated from Red Sea mangrove. Biotechnology and Biotechnological Equipment 34: 288–1298. https://doi.org/10.1080/13102818.2020.1835535 IF: 1.185
10	Haelewaters D., Dima B., Abdel-Hafiz B.I.I. , Abdel-Wahab M.A. , Abul-Ezz S.R. , Acar I., Aguirre-Acosta E., Aime M.C., Aldemir S., Ali M., Ayala-Vásquez O., Bakhit M.S. , Bashir H., Battistin E., Bendiksen E., Castro-Rivera R., Çolak Ö.F., De Kesel A., de la Fuente J.I., Dizkırıncı A., Hussain S., Jansen G.M., Kaygusuz O., Khalid A.N., Khan J., Kiyashko A.A., Larsson E., Martínez- González C.R., Morozova O.V., Niazi A.R., Noordeloos M.E., Pham T.H.G., Popov E.S., Psurtseva N.V., Schoutteten N., Sher H., Türkekul I., Verbeken A., Ahmad H., Afshan

	N.S., Christe P., Fiaz M., Glaizot O., Liu J., Majeed J., Markotter W., Nagy A., Nawaz H., Papp V., Péter Á., Pfliegler W.P., Qasim T., Riaz M., Sándor A.D., Szentiványi T., Voglmayr H., Yousaf N. & Krisai-Greilhuber I. (2020): Fungal Systematics and Evolution 6. Sydowia 72: 231–356. https://doi.org/10.12905/0380.sydowia72-2020-0231 IF: 0.8
11	Wei Dong, Bin Wang, Kevin D. Hyde, Eric H. C. McKenzie, Huzefa A. Raja, Kazuaki Tanaka, Mohamed A. Abdel- Wahab, Faten A. Abdel- Aziz , Mingkwan Doilom, Rungtiwa Phookamsak, Sinang Hongsan, Dhanushka N. Wanasinghe, Xian- Dong Yu, Gen- Nuo Wang, Hao Yang, Jing Yang, Kasun M. Thambugala, Qing Tian, Zong- Long Luo, Jian- Bo Yang, Andrew N. Miller, Jacques Fournier, Saranyaphat Boonmee, Dian- Ming Hu, Sarunya Nalumpang, Huang Zhang (2020). Freshwater Dothideomycetes. Fungal Diversity 105:319–575. https://doi.org/10.1007/s13225-020-00463-5 IF: 15.386
12	Abdel-Wahab M.A., Jones E.B.G., Bahkali A.H. (2020). Marine fungi recorded from <i>Avicennia marina</i> (Forsk.) Vierh. and their secondary product potential. Nova Hedwigia 111: 357-390. https://doi.org/10.1127/nova_hedwigia/2020/0600 IF: 1.065
13	Abdel-Aziz F.A., Ali H. Bahkali A.H., Elgorban A.M., Abdel-Wahab M.A. (2020). <i>Pleurotheciella nilotica</i> sp. nov. (Pleurotheciales, Ascomycota) from freshwater habitats in Egypt. Nova Hedwigia 110: 91-98. https://doi.org/10.1515/bot-2019-0014 IF: 1.065
14	Jones E.B.G., Devadatha B., Abdel-Wahab M.A. , Dayarathne M.C., Zhang S.N., Kevin D. Hyde, Jian-Kui Liu, Ali H. Bahkali, Vemuri V. Sarma, Sanja Tibell, Leif Tibell, Meng-Meng Wang, Fang Liu and Lei Cai (2020). Phylogeny of new marine Dothideomycetes and Sordariomycetes from mangroves and deep-sea sediments. Botanica Marina 63: 155–181. https://doi.org/10.1515/bot-2019-0014 IF: 1.381
15	El-Samawaty A.M.A., Boekhout T., Mohamed A. Yassin M.A., Abdel-Wahab M.A. (2020). <i>Saturnispora mangrovi</i> f.a., sp. nov. from Syhat mangrove, Saudi Arabia. International Journal of Systematic and Evolutionary Microbiology 70: 977–981. https://doi.org/10.1099/ijsem.0.003859 IF: 2.4
16	Zhang S.-N., Abdel-Wahab M.A. , Hyde K.D., Jones E.B.G., Cheewangkoon R., Liu J.-K. (2019). Additions to the genus <i>Savoryella</i> (Savoryellaceae), with asexual morph <i>Savoryella nypae</i> comb. nov. and <i>S. sarushimana</i> sp. nov. Phytotaxa 408: 195-207. https://doi.org/10.11646/phytotaxa.408.3.4 IF: 1.185
17	Jones E.B.G., Pang K.-L., Abdel-Wahab M.A. , Scholz B., Hyde K.D., Boekhout T., Ebel R., Rateb M.E., Henderson L., Sakayaroj J., Suetrong S., Dayarathne M.C., Kumar V., Raghukumar S., Sridhar K.R., Bahkali A.H.,

	Gleason F., Norphanphoun C. (2019). An online resource for marine fungi. <i>Fungal Diversity</i> 96: 347-433. https://doi.org/10.1007/s13225-019-00426-5 IF: 15.596
18	Abdel-Wahab M.A. , Jones E.B.G., Bahkali A.H., El Gorban A.M. (2019). <i>Nia lenicarpa</i> sp. nov. (Niaceae, Agaricales) from Red Sea mangroves in Saudi Arabia with comments on <i>Nia vibrissae</i> . <i>Phytotaxa</i> 406: 157-168. https://doi.org/10.11646/phytotaxa.406.3.2 IF: 1.185
19	Abdel-Wahab M.A. , Jones E.B.G., Bahkali A.H., El Gorban A.M. (2019). Marine fungi from Red Sea mangroves in Saudi Arabia with <i>Fulvocentrum rubrum</i> sp. nov. (Torpedosporales, Ascomycota). <i>Nova Hedwigia</i> 108: 365-377. https://doi.org/10.1127/nova_hedwigia/2018/0511 IF: 0.914
20	Elgorban A.M., Bahkali A.H., Abdel-Wahab M.A. (2019). Natural products of <i>Alternaria</i> sp., an endophytic fungus isolated from <i>Salvadora persica</i> from Saudi Arabia. <i>Saudi Journal of Biological Sciences</i> 26: 1068-1077. https://doi.org/10.1016/j.sjbs.2018.04.010 IF: 3.13
21	Abdel-Aziz A.E., Mohamed S.S., Abdel-Raheem A.M., Abdel-Wahab M.A. (2019). <i>Phaeonectriella alba</i> sp. nov. from the River Nile, Egypt. <i>Mycotaxon</i> 133: 597-605. https://doi.org/10.5248/133.597 IF: 0.815
22	Abdel-Wahab, M.A. , El-Samawaty, A.M.A., El Gorban A.M., Yassin M.A., Alsaadi M.H. (2018). <i>Khaleijomyces marinus</i> gen. et sp. nov. (Juncigenaceae, Torpedosporales) a new lignicolous marine fungus from Saudi Arabia. <i>Phytotaxa</i> 340: 277-285. https://doi.org/10.11646/phytotaxa.340.3.8 IF: 1.26
23	El-Samawaty, A.M.A., Yassin M.A., Abdel-Wahab, M.A. (2018). Airborne fungi in outdoor air of riyadh city, Kingdom of Saudi Arabia. <i>Fresenius Environmental Bulletin</i> 27: 2943-2950. IF: 0.2
24	Abdel-Raheem, A. M. , Abd-Elaah, G. A. , El-Maghraby, O. , & Bakhit, M. (2018). Interactions of physico-chemical properties of the River Nile water and fungal diversity in River Nile streams in Delta region. <i>Journal of Environmental Studies</i> , 18(1), 33-45. DOI: 10.21608/jesi.2018.204120
25	Kevin D. Hyde, Chada Norphanphoun, Vanessa P. Abreu, Anna Bazzicalupo, K. W. Thilini Chethana, Marco Clericuzio, Monika C. Dayarathne, Asha J. Dissanayake, Anusha H. Ekanayaka, Mao-Qiang He, Sinang Hongsan, Shi-Ke Huang, Subashini C. Jayasiri, Ruvishika S. Jayawardena, Anuruddha Karunarathna, Sirinapa Konta, Ivana Kus'an, Hyun Lee, Junfu Li, Chuan-Gen Lin, Ning-Guo Liu, Yong-Zhong Lu, Zong-Long Luo, Ishara S. Manawasinghe, Ausana Mapook, Rekhani H. Perera, Rungtiwa Phookamsak, Chayanard Phukhamsakda, Igor Siedlecki, Adriene Mayra Soares, Danushka S. Tennakoon, Qing Tian, Saowaluck Tibpromma, Dhanushka N. Wanasinghe, Yuan-Pin Xiao, Jing Yang, Xiang-Yu Zeng, Faten A. Abdel-Aziz, Wen-Jing Li, Indunil C. Senanayake,

	Qiu-Ju Shang, Dinushani A. Daranagama, Nimali I. de Silva, Kasun M. Thambugala, Mohamed A. Abdel-Wahab, Ali H. Bahkali, Mary L. Berbee, Saranyaphat Boonmee, D. Jayarama Bhat, Timur S. Bulgakov, Bart Buyck, Erio Camporesi, Rafael F. Castaneda-Ruiz, Putarak Chomnunti, Minkwan Doilom, Francesco Dovana, Tatiana B. Gibertoni, Margita Jadan, Rajesh Jeewon, E. B. Gareth Jones, Ji-Chuan Kang, Samantha C. Karunarathna, Young Woon Lim, Jian-Kui Liu, Zuo-Yi Liu, Helio Longoni Plautz Jr., Saisamorn Lumyong, Sajeewa S. N. Maharachchikumbura, Neven Matoc'ec, Eric H. C. McKenzie, Armin Mes'ic', Daniel Miller, Julia Pawłowska, Olinto L. Pereira, Itthayakorn Promputtha, Andrea I. Romero, Leif Ryvarden, Hong-Yan Su, Satinee Suetrong, Zdenko Tkalc'ec, Alfredo Vizzini, Ting-Chi Wen, Komsit Wisitrassameewong, Marta Wrzosek, Jian-Chu Xu, Qi Zhao, Rui-Lin Zhao, Peter E. Mortimer (2017). Fungal diversity notes 603–708: taxonomic and phylogenetic notes on genera and species. Fungal Diversity 87:1–235. https://doi.org/10.1007/s13225-017-0391-3 IF: 13.45
26	Nalin N. Wijayawardene, Kevin D. Hyde, Kunhiraman C. Rajeshkumar, David L. Hawksworth, Hugo Madrid, Paul M. Kirk, Uwe Braun, Rajshree V. Singh, Pedro W. Crous, Martin Kukwa, Robert Lu'cking, Cletus P. Kurtzman, Andrey Yurkov, Danny Haelewaters, Andre' Aptroot, H. Thorsten Lumbsch, Einar Timdal, Damien Ertz, Javier Etayo, Alan J. L. Phillips, Johannes Z. Groenewald, Moslem Papizadeh, Laura Selbmann, Monika C. Dayarathne, Gothamie Weerakoon, E. B. Gareth Jones, Satinee Suetrong, Qing Tian, Rafael F. Castaneda-Ruiz, Ali H. Bahkali, Ka-Lai Pang, Kazuaki Tanaka, Dong Qin Dai, Jariya Sakayaroj. Martina Hujslova', Lorenzo Lombard, Belle D. Shenoy, Ave Suija, Sajeewa S. N. Maharachchikumbura, Kasun M. Thambugala, Dhanushka N. Wanasinghe, Bharati O. Sharma, Subhash Gaikwad, Gargee Pandit, Laura Zucconi, Silvano Onofri, Eleonora Egidi, Huzefa A. Raja, Rampai Kodsueb, Marcela E. S. Ca'ceres, Sergio Pe'rez-Ortega, Patricia O. Fiuza, Josiane Santana Monteiro, Larissa N. Vasilyeva, Roger G. Shivas, Maria Prieto, Mats Wedin, Ibai Olariaga, Adebola Azeez Lateef, Yamini Agrawal, Seyed Abolhassan Shahzadeh Fazeli, Mohammad Ali Amoozegar, Guo Zhu Zhao, Walter P. Pfliegler, Gunjan Sharma, Magdalena Oset, Mohamed A. Abdel-Wahab, Susumu Takamatsu, Konstanze Bensch, Nimali Indeewari de Silva, Andre' De Kesel, Anuruddha Karunarathna, Saranyaphat Boonmee, Donald H. Pfister, Yong-Zhong Lu, Zong-Long Luo, Nattawut Boonyuen, Dinushani A. Daranagama, Indunil C. Senanayake, Subashini C. Jayasiri, Milan C. Samarakoon, Xiang-Yu Zeng, Mingkwan Doilom, Luis Quijada, Sillma Rampadarath, Gabriela Heredia, Asha J. Dissanayake, Ruvishika S. Jayawardana, Rekhani H. Perera, Li Zhou Tang, Chayanard Phukhamsakda, Margarita Hernandez-Restrepo, Xiaoya Ma, Saowaluck Tibpromma, Luis F. P. Gusmao, Darshani Weerahewa, Samantha C. Karunarathna (2017). Notes for genera: Ascomycota. Fungal Diversity 86: 1-594. https://doi.org/10.1007/s13225-017-0386-0 IF: 13.45

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28	Abdel-Wahab M.A. , Dayarathne M.C., Suetrong S., Guo, S.-Y., Alias, S.A., Bahkali, A.H., Nagahama, T., Elgorban, A.M., Abdel-Aziz, F.A. , Hodhod, M.S., Al-Hebshi, M.O., Hyde, K.D., Nor, N.A.B.M., Ka-Lai Pang K.L. & E.B. Gareth Jones E.B.G. (2017) New saprobic marine fungi and a new combination. Botanica Marina 60: 469–488. https://doi.org/10.1515/bot-2016-0118 IF: 1.2
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Lab instruments						
	Device	Quantity	Quality			
			Good	Poor	Need maintenance	malfunction

1	Autoclave	2	✓			
2	Stereomicroscope	2	✓			
3	Leica CM 1100 Cryostat	1	✓			
4	Research microscope with digital camera	1	✓			
5	Hot air Oven	1	✓			
6	Hot Plate	1		✓		
7	Digital Balance	2	✓			
8	Cooling Incubator	2			✓	
9	Incubators	4	✓			
10	Refrigerator	2	✓			
11	Digital Ultra-Low Temp. Freezer	1	✓			
12	Laminar Flow clean bench		✓			
13	Centrifuge	1	✓			
14	Rotary Evaporator	1	✓			
15	Sonicator	1	✓			
16	Vortex	1	✓			

Instruments Description

Device image	Description /use
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	Cryostat CM 1100 (Leica)
	Rotary Evaporator (Heidolph)
	Digital Ultra-Low Temp. Freezer (DAIHAN - Wise Cryo TM WUF-D)
	Stereomicroscope (Olympus SZ61)

	Olympus Microscope with Digital camera
	Sonicator
	Oven Heraeus
	Laminar flow clean bench:



Centrifuge (Thermo)



Stereomicroscope (Olympus SZ-PT)



Vortex Shaker (Thermo)



Digital Balance (ADAM)

Evaluate the fulfillment of lab to appropriateness of areas, building installations, facilities and human resources standards

Areas of assessment		Indicators	Yes	Somewhat	No
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Floor area and capacity	1	Adequacy of the total capacity of the lab for the number of researcher (1).		✓	
Windows and doors	2	Availability of windows for adequate ventilations.	✓		
	3	Ease of use of windows.			
Equipment	4	Availability of good ventilation (4).		✓	
	5	The existence of adequate lighting (4).	✓		
	6	Lab is connected to the Internet	✓		
	7	The existence of directions inside the Lab showing entrances and emergency exits.		✓	
Security and Safety	8	Existence of firefighting equipment near the hall (5).	✓		
	9	Cleanliness of the room.		✓	