



Curriculum Vitae

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-Referee member in the permanent scientific committee of Botany (**committee 48**) for the promotion of professors and associate professors since 2018.

Personal data

Name : Yousseria Mohamed Hassen Hassen Shetaia
Citizenship : Egyptian, Born in Egypt
Date of Birth : 23/7/1967
Marital Status : Married



1-Academic qualification:

- **Bachelor of Science (B.Sc.) 1989, Microbiology/chemistry, Botany Dept. Faculty of science. The grade is Excellent with honor degree.**
- **Master of Science (M.Sc.)26/2/ 1995, Microbiology.**
- **Doctor of Philosophy of Science (Ph.D.)20/9/2000, Microbiology.**
- **Associate professor of Microbiology 2006, Microbiology.**
- **Professor of Microbiology (Mycology) on 26/ 9/ 2012.**

2-Professional qualification: -

- **1985-1989:** B.Sc. Microbiology/Chemistry, Faculty of Science, Ain Shams University, Egypt.
- **From 1989 to 1995** Demonstrator of Microbiology. Botany Department, Faculty of Science, Ain Shams University, Abbassia, Cairo (EGYPT).
- **From 1995 to 2000:** Assistant Lecturer in Dept. of Microbiology, Faculty of Science, Ain Shams University. Abbassia, Cairo (EGYPT).
- **From 2000 to 2006 :** lecturer in Dept. of Microbiology, Faculty of Science, Ain Shams University. Abbassia, Cairo (EGYPT). I have both teaching and administrative responsibilities within the Microbiology Dept. in addition to my research activity.
- **From 2006 to 2012:** Associate professor of Microbiology in the Microbiology Department, Faculty of Science, Ain Shams University. Abbassia, Cairo (EGYPT). **I**



have both teaching and administrative responsibilities within the Microbiology Dept. in addition to my research activity and supervision of different theses.

- **-In Oct-2012:** professor of microbiology (mycology) in the Microbiology Department, Faculty of Science, Ain Shams University. Abbassia, Cairo (EGYPT)
- **From 20/9/2014 To 30/1/2015:** Attended post doctorate scientific mission in Ohio State University.
- **From 2015-2019:** Training field coordinator, faculty of science, Ain Shams university, Abbassia, Cairo (EGYPT).
- **Since 2018:** Referee member in the permanent scientific committee of Botany(**Committee 48**)for the promotion of professors and associate professors.
- **From 13-1-2020 To 13-1-2023:** **Chairman** of Department of Microbiology, Faculty of Science, Ain Shams University.
- **Linguistic:** Arabic, English.
- **Computer Skills:** Work with basic computer programs (Word, Excel, PowerPoint, and some statistical programs).

3- Local Attended Training Courses:

3.1-Training course in the field of development of microbial industries in Egypt. 13-17/12/1992 in the National Research Center. Dokki, Cairo, Egypt.

3.2-Training course on molecular biology techniques. 25-29/7/1993 in Institute of graduate studies and research (IGSR), University of Alexandria research center (UNARC), Alexandria, Egypt.

3.3-Training course “the basis of utilization of plasmids in genetic engineering”.18-22/9/1994 in National Research Center. Dokki, Cairo, Egypt.



3.4-Training course on PCR reaction and its medical application. 20-22/4/1996 In Central Lab. Faculty of Science - Ain Shams University, Egypt.

3.5-Training course on production and utilization of microbial biomass.17/3/1999. Cairo MIRCEN, Faculty of Agriculture, Ain Shams University, Egypt.

3.6- Training course in internet, 18/3/1999 in net data of Ain shams University

3.7-Training course on advanced biotechnological methods on organic wastes treatment (New trends in fermentation technology) 11-15/7/20 in Institute of graduate studies & research (IGSR), University of Alexandria research center (UNARC). Alexandria, Egypt.

3.8- Training program on solid waste management. 25- 27/9/2005 in Egyptian Environmental NGO Federation.

3.9- Training course on "Sustainable water management and reuse via advanced and simple technologies" 6-10 May /2007 in National research center. Dokki. Cairo.

3.10-Training course on "Administration Skills" in Ain Shams University Developing Center for Leaders (2012).

3.11. **Attending faculty development project courses:**

-Scientific Research Methods Course 1-3 / 1/2005

- Course of modern trends in teaching 18-21 / 6/2005

-Communication Skills Course 6-9 August 2005

-Course on the use of technology in teaching 1-3/7/2006

-Economics of Marketing and Finance of Scientific Research Course 10-12 / 2/2007

-Teaching evaluation course 6-8 / 3/2007

-Scientific publishing course 5-7 / 2/2008



-Quality standards course in the teaching process 19-21 / 2008

-Course of organizing scientific conferences 26-28 / 5/200

-The credit hours course 30 / 3-1 / 4/2010

3.12- ICDL training course (Windows, Word, Power point, Access, Excel, Internet, IT) on May-2012

3.13 - The training program "University Administration and Leadership" during the period from 25-27/12/2022 in the Training and Development Center-t Ain Shams University.

3.14- Zoom meeting on “empowering Higher Education Institutions for Digital Teaching and Learning in Egypt” Project in IIOE (International Institute of Online Education) Egypt National Center -on site meeting venue: main meeting room –Galala University, Galala, Egypt. On May 2022.

3.15-The second Arab African Forum for AI in Health care at 18-11-2023. Organized by ESISACT and AIRYADA University under the auspices of the ministry of Social Collaboration

3.16- Training course on E-learning using ASU 2 Learn online -In learning & Development center -Ain Shams University. (2023)

3.17- Training course on “Researcher to Entrepreneur (R2E: Base Camp) on Zoom meeting 6-15/3/2023.

3.18- Correct training course for preparation of exams online- unite of measurement and evaluation -Faculty of Science-Ain Shams University. Zoom meeting (2024).



4- Attended Work Shops:

Local Workshops:

- 4.1- Applications of diagnostic molecular biology. 27-30/10/1997 in Research & training center on vectors of diseases (RTC).
- 4.2- Analysis of biological data using statistical packages. 21-24/2/1999 in Research & training center on vectors of diseases (RTC).
- 4.3- The art of scientific writing 4-7/2/2001 in Research & training center on vectors of diseases
- 4.4- Industrial biotechnology: Recent situation and future prospect. 14-15/7/2010 in National research center. Dokki. Cairo.
- 4.5- The role of microbial wealth centers in the preservation and development of microbial cultures. 30/4/2014 in main hall of the agricultural research center. Under organization of the national committee for the science of microorganisms which followed the academy of scientific research and technology.
- 4.6- Design of Experiment (DOE): Multivariate Methods versus factor-by-factor methods. Held in National research center, Giza, Egypt. January 13th, 2019
- 4.7- Techniques of using the application Microsoft Teams. attend online. 10/4/2021

International Workshops:

- 4.1- International congress on molecular genetics (Pre congress workshops). 14-19/6/1997 in medical research center, Ain Shams Univ. Hospitals, Egypt.
- 4.2- International Workshop on Industrial Biotechnology 3-4/7/2010 in Movenpick Hotel Cairo Media City, Egypt. **Under organization of** Ministry of Scientific Research, The Academy of Scientific Research and Technology, The France- Egypt year of Science and Technology, 2010.
- 4.3- workshop, in Ohio Agricultural Research and Development Center in Wooster. Focused on pest control and features, many opportunities to learn from experts in the industry and academia. 22-23/1/2015.



4.4-workshop offered by the OSU Leadership Center on learning the characteristics of group facilitation. 2-3/12/2014.

5-Attended Conferences:

Local& regional conferences

1-The second regional mycological conference. Sep. 1994, El-Azhar Univ. Egypt.

2-The 11th annual Ain Shams University international conference “Knowledge economy for better life “ 10-11th May 2023 Triumph Luxury Hotel.

International conferences

5.1- The first international conference on fungi: (Strategies for controlling fungal activities in the environment). Sep, 1992.in El-Azhar Univ. Egypt.

5.2- International conference on molecular genetics. attend on the sidelines of the conference workshop “Modern Technology solution and Manipulation. On 14-19/6/1997 in medical research center -faculty of medicine-Ain Shams University.

5.3-The second international conference for plant protection research institute. Integrated pest management in relation to safe agriculture products and healthy environment. Plant protection institute. Dec. 2002, Giza, Egypt.

5.4 -ISHS, Acta Horticulture 604, International conference on quality in chains, an integrated view on fruit and vegetable quality. The Netherlands (2003).

5.5 -International conference on Meeting the Challenges of Sugar Crops & Integrated Industries in Developing countries. In Sinai University. 11-14/9/2008.

5.6 -12th international conference in Petroleum, Mineral Wealth and Development. In Egyptian petroleum Research Institute, Cairo, Egypt,7-9 /2/ 2009.



5.7 - 13th International Conference on Petroleum, Mineral Resources & Development. In Egyptian Petroleum Research Institute, Cairo, Egypt. 7-9/2/2010.

5.8 - International conference on “Current trends in medicinal plant research and microbial applications” In Faculty of science, Alexandria University, Egypt. October 27-29/2010.

5.9 - The third international conference of Ain Shams University: The Interdisciplinary and Multidisciplinary Studies and the Needs of the labor Market. In Large conference hall of Ain Shams University. At 22-23 / 4/ 2014

5.10 - Humboldt Kolleg /Helwan University First International conference on: Biodiversity and Sustainable Development. In Helwan University Convention Center, at 15-16 /10/2016

5.11 -The Third international conference on Basic and applied Mycology (ICBAM_3) in Assiut University, Egypt, 10 March 2019.

5.12 - 5th International conference on Scientific Research ISR-2019 Renewable energy and water sustainability 26-28 March 2019

5.13 - 1st International conference on Microbiota & Microbiome in health and disease at 26 November, in National research center, Giza, Egypt, 2019.

5.14- 9th international annual conference of Ain Shams University. At 6-8 April 2021.

5.15- The 1st international conference on Industry 4.0 Entrepreneurship & Innovation Perspectives 10-11 December 2022. at Ain Shams University.

5.16 4th Egyptian International Conference on Microbiota & Microbiome in Health and Disease at 20-21 November 2023. New Hall, National Research Center. Cairo, Egypt.

5.17- 1st conference on Air pollution: Challenges and Management 28-29 February 2024, New Hall, National Research Center. Cairo, Egypt.

5.18- Oral presentation on “yeast in extreme environment” in PROGRAMME OF The International Conference on Biodiversity 3rd Edition. May- 23-2024 – Place: Faculty of Agriculture.



ZoomMeeting. <https://us02web.zoom.us/j/88008967861?pwd=Y3VRVEZsTDdZcjJXMVdFK2JjRFBodz09> .Meeting ID: 880 0896 7861 Passcode: 817981. 10:00 - 10:10 Opening of the event. Principal keynote speaker: Şmuleac Laura, University of Life Sciences “King Michael I” from Timisoara, Romania, Faculty of Agriculture

5.19-Attendance of zoom meeting on “empowering Higher Education Institutions for Digital Teaching and Learning in Egypt “Project in IIOE (International Institute of Online Education) Egypt National Center-on site meeting venue: main meeting room –Galala University, Galala, Egypt.

6-Symposium

6.1-The first scientific research symposium of Faculty of science- Ain Shams University. 27th December 2018. Guest house, Ain Shams University.

6.2- Attend the Humboldt Kolleg//international symposium on “ The Plant Microbiom2: Emerging Research and Development Trends for Improving Agricultural Productivity, Africa in Focus.at 13-16 April 2024. In Giza Pyramids vicinity-2024

الندوة الدولية –الميكروبات المصاحبة للنباتات : الإتجاهات الحديثة فى البحوث و التطوير لدعم الإنتاج الزراعى – أفريقيا فى دائرة الإهتمام

7-Seminars:

7.1- Recent Advances in Microarray Application. Held in Samiramis international Cairo on February/ 18/2010.

7.2-Introduction to biopharmaceutical up stream process development. Held in Columbus-Ohio state. Under super vision of society for biological engineering. By Dr. Jianxin sun in Oct,31,2014



8-Forums:

-The second Arab African Forum for AI in Health care at 18-11-2023. Organized by ESISACT and AIRYADA University under the auspices of the ministry of Social Collaboration.

9-Trends of my research work:

Since I got my Ph.D. in 2000, I have remained engaged with both teaching and research activities. The prolonged training and experience I gained during my research work give me experience in the field of Biotechnology and applied microbiology. My research work is **mainly concerned with fungal isolates (molds and yeast)**. My main research achievements were included in the following trends: **Trend (1)** Study the incidence, epidemiology and pathogenesis of explored and unexplored pathogenic fungi in Egypt, microbiome, Hygiene, detection, Molecular identification, susceptibility tests, and assessment of the activity of natural antimicrobial compounds. **Trend (2)** Assessment of the biodegradation potentialities of local mold and yeast isolates. **Trend (3)** Aspects in improvement of functional foods using probiotic yeast or fungal metabolites (mold & yeast) and assessment the significant impact in relation to human life. **Trend (4)** assessment the production and biotransformation capabilities of fungal isolates on pilot scale.

10-list of publications:

1-Karam El-Din A.A; Youssef A. Youssef and Hassan Y. M. (1995): Prevalence of pathogenic yeast fungi in clinical specimens from patients with candidiasis. The African Journal of Mycology and biotechnology. Vol. 3 (1): 37-34.

2-El-Baz Ashraf F., Shetaia Yousseria, M. , El-Neshawy Saneya.M.(2002): Bio control capability of selected *Candida* spp against *Penicillium digitatum* on Citrus: study with respect to their mode of action . 2nd International conference, Plant Protection research institute, Cairo, Egypt.21-24, December,2002.

3-El-Neshawy S.M. and Shetaia Y.M. (2003): Biocontrol Capability of *Candida* Spp. Against *Botrytis* rot of Strawberries with Respect to fruit Quality. Proceedings of the international conference on Quality in chains. Acta Horticulturariae; 604: 727-733.**(Scopus)**



-4-Shetaia Y.M.; Mohamed M.; Karam El-Din A.; El-Shawarby L.; Youssef Y.A. (2003): Surveillance of yeast infection in immuno-compromised Egyptian hosts: A mycological, molecular, and sero-typing study. N. Egypt. J .Microbiol; 6: 219.

5-Shetaia Y.M. and El-Baz A.F. (2004): Viability and Thermal Stability of *Pichia Anomala* Freeze-Dried in Different Polymers. The African Journal of Mycology and Biotechnology. Vol. 12(2): 49-59.

6-Shetaia Y.M. and Zaki S.M. (2005): Incidence of Yeast Infection in Hospitalized patients. Egypt. J .Biomed. Sci. Vol. 18; July: 115-126.

7-Z.A. ashour, Y.M, Shetaia,M.Y.Atiha and H.M.Sanad(2005): *Rhizopus* allergy in asthmatic patients: diagnosis and immunotherapeutic trial. Egypt. J. Biomed. Sci. vol.19,November, 327-338

8-Shetaia Y.M.; El-Baz A.F. and El-Enshasy H.A. (2005): Production of yeast killer toxin by *Trichosporon jirovecii* in industrial medium. The African Journal of Mycology and Biotechnology. Vol. 13(2): 73-89.

9-El-Baz A.F. and Shetaia Y.M. (2005): Evaluation of Different Assay Methods for Determining the Activity of Yeast Killer Toxin. International Journal of Agriculture and Biology. Vol. 7(6): 1003-1006.

10-Shetaia Y.M. (2005): Clinical, biochemical and mycological study on cannabis abusers. The African Journal of Mycology and Biotechnology. Vol. 13(3): 1-18.

11-M.I. NASR,A.F.El-BAZ,Y.M.SHETAIA and N.E. IBRAHIM (2006): Antimicrobial activity of *Trichosporon jirovecii* Killer Toxin: Production and characterization. Egypt.J.Genet.Cytol.35:195-207,july,2006.

12-Sherin, A. Shafik, Yousseria, M. Hassen and Al zahraa, K. Eldin.(2007): Vaginal candidiasis: Incidence, etiology and pathogenesis. JASMR,2(2): 115-127.

13-S.M.Zaki ; N.Ibrahim ;K.Aoyama ;Y.M.Shetaia ; K.Abdel-Ghany and Y.Mikami. (2009): Dermatophyte infections in Cairo,Egypt. Mycopathologia.167,133-137 (**Scopus**)



14-A.Y.El-Naggar, M.M,Kamel,Y.M.Hassan ,Kh.A.Youssef,A.A.Al-Adly and N.A.Ismail (2009): Gas chromatographic assessment for bioremediation of hydrocarbons using *Bacillus Amyloliqifaciens*.Accepted in the 12th international conference in Petroleum,Mineral wealth and Development , in Egyptian Petroleum Research Institute,Cairo,Egypt,7-9/2/2009.

15-Saneya,M. El-Neshawy, Abd El-Ghany B. Badr, Yousseria M.Shetaia and Hamam El-Din H.Yoness.(2010): Selecting and Identifying potential yeast from fruit surfaces microflora against post harvest *Penicillium* rots on Citrus. J. Biol. Chem. Environ. Sci., 5(2),147-160.

16-Y. M.Shetaia ; A.Y. El Naggar ; Amira A. Aladly and N.A. Ismail (2011): Biodegradation of hydrocarbon compounds using laser stimulated *Penicillium citrinum* . Egypt.J.Exp.Biol.(Bio.). 7(2):269-277.

17-El-baz, A.F., Shetaia, Y.M. and Elkhoully, R.R. (2011): Xylitol production by *Candida tropicalis* under different optimized growth conditions. African Journal of Biotechnology. 10(68): 15353-15363, 2 Nov, 2011.(Scopus)

18-A. F. El Baz1, Y. M. Shetaia and R. R. Elkhoully (2011): Kinetic behavior of *Candida tropicalis* during xylitol production using semi- synthetic and hydrolysate based media. African Journal of Biotechnology. 10(73): 16617-16625. (Scopus)

19-F.H.eltahan, Y.M. shetaia and M.F. Abd Elaziz (2012):Fungal Profil of some selected Egyptian Medicinal plants and species and estimation of mycotoxin production. Bull.Fac.agric.Cairo univ.63(3)333-344

20-Omnia A. Abdel-Monem, Ashraf F. El-Baz, Yousria M. Shetaia, and Sabha M. El-Sabbagh(2012):Production and Application of Thermostable Cellulase-Free Xylanase by *Aspergillus fumigatus* from Agricultural Wastes. Industrial Biotechnology. 8(3): 152-161.(Scopus)

21-A.F.El-Baz, H.Ab Delal, Y.M.Shetaia, M. Bekheit & E.Atta (2012) Biotransformation of Silymarin into a novel Di rhamnoside derivative using fungal cellulases. Accepted as poster in the 5Th Saudi Science Conference “ A new vision of the role of basic science in development” 24-26/4/2012.

22-A.Y. El-Naggar, Y. M.Shetaia , K. A. Youssef and N.A. Ismail.(2012): Stimulation of the hydrocarbon compounds degrading *Saccharomyces rosinii* by low power laser radiation. Der Pharma Chemica, , 4(4):1424-1434.(Scopus)



23-Yousseria M. shetaia , Hussein Abd El Kareem,Ola MGomaa,Lucy Wageeh(2012): Bioremediation of olive mill waste water and its use as abiofertilizer, Eleventh Arab Conference on the Peaceful Uses of Atomic Energy. Khartoum.Sudan. 16-20 December.

24-Hala Abdel Salam Amin^a, **Yousseria Mohamed Hassan^b**, Soad M.Yehia.(2013): Biotransformation of soybean saponin to soya sapogenol B by *Aspergillus parasiticus*. Egyptian Pharmaceutical Journal (EPJ). 12:40-45.

25- Hala Abdel Salam Amin, **Yousseria Mohamed Hassan**, Soad,M.Yehia. (2014):. Biotransformation of soybean to soya sapogenol B by Immobilized *Aspergillus Parasiticus* Cells on Polyurethane Foam RJPBCS 5(3)332-341.

26-Mohsen,H.Selim,El-Zahraa,A.KaramEldin,Moataza,M.Saad,El-sayed,E. Mostafa,**Yousseria,H.Sh.** and Amany A. Hassabo.(2013): Some factors influencing L-methioninase formation by *Candida tropicalis* isolate. Journal of applied sciences Research, 9(4): 2842-2852.

27-Mohsen Helmy Selim, El-Zahraa Karm Eldin, MoatazaMahmoud Saad,El-Sayed EliwaMostafa, **Yosrea Hassan Shetia**,and Amany Ahmed Hassabo Anise(2015): Purification, Characterization of L-Methioninase from *Candida tropicalis*, and Its Application as an Anticancer. Biotechnology Research International (BRI).1-10

28-Mai, M. M. Naeem, Hoida A. M. El-Shazly, **Yousseria, M. Shetaia**, Atef,S.O Sheba, Samira, S. Mousa and Karam.A.A. (2015): production of antioxidant by fungi using soybean milk residue (okara). Int .J.Curr.Microbiol.App.Sci.4(2): 8474-866.

29-Ashraf Farag El-Baz, Noha Mohamed Sorour and **Yousseria Mohamed Shetaia**.(2016) *Trichosporon jirovecii*-mediated synthesis of cadmium sulfide nanoparticles. J. Basic Microbiol. 2015, 55, 1–11.(Scopus)

30-Ashraf F. El-Baz¹, Ahmed I. El-Batal, Farag M. Abomosalam, Ahmed A. Tayel, **Yousseria M. Shetaia** and Shang-Tian Yang. (2016) Extracellular biosynthesis of anti-*Candida* silver nanoparticles using *Monascus purpureus*. J. Basic Microbiol. 2015, 55, 1–10(Scopus)

31-Dalia,A.M. Abdou, Noura,A.El-far, **Youssria, M.shetaia**, Wael, S.I. Abou- Elmagd and Al-zahraa, A. Karam El- Din (2017): Exploring the antimicrobial potential of local marine fungi. Egypt. J. Exp. Biol.(Bot.).12(2):275-288.



32-Yousseria M.H.Shetaia,Wafaa,A.A.Elkholik,Tarek M.Mohamed, Laila A.Farahat, Ahmed ElMekawy.(2016): Potential biodegradation of crude petroleum oil by newly isolated halotolerant microbial strains from polluted Red Sea area. *Marine Pollution Bulletin*.111, 435-442. (IF: 3.09) (Scopus)

33-Ashraf ,F. El Baz, Yousseria M.H. Shetaia, Hany A. Shams Eldin and Ahmed ElMekawy.(2016):Optimization of Cellulase Production by *Trichoderma viride* Using Response Surface Methodology. *Current Biotechnology*, 5 (2)1-7.

34-Ibrahim Shabaan Abd –Elsalam, Nehad, Zaki Adham, Yousseria Mohamed Shetaia and Haidy Hassan (2017): Fermentative production of ergosterol using *Saccharomyces boulardii* i ATCC 236. *Egypt. J. Exp. Biol. (Bot.)*, 13(2): 361 – 366.

35-Asmaa I. El-Shazly, Azza M. Noor El-Deen, Nevin A. Ibrahim*, Nayera A. M. Abdelwahed, Ahmed A. El-Beih, **Yousseria M. H. Shetaia***, Mohamed A. Farid(2017): Assessment of Genistein and Daidzein Production by Some Local Fungal and Bacterial Isolates. *Egypt. J. Microbiol.* **52**, pp.49 – 61.

36-A. Hassan · N. M. Sorour · A. El-Baz · Y. Shetaia (2017): Simple synthesis of bacterial cellulose/magnetite nanoparticles composite for the removal of antimony from aqueous solution. *International Journal of Environmental Science and Technology*
<https://doi.org/10.1007/s13762-018-1737-4>.(Scopus)

37-Ashraf F.El Baz. Hesham A. El-Enshasy.Yousseria M.Shetaia. hoda Mahrous.Norzalina Othman. Ahmed E. Yousef (2018): Semi-industrial scale Production of a New Yeast with Probiotic Traits, *Cryptococcus* sp. YMHS, Isolated from the Red Sea. *Probiotica&Antimicro.Prot.*1-12 (Scopus)

38-Yousseria M. H. Shetaia¹, Ashraf F. El-Baz and Ahmed ElMekawy(2018): Toward Enhancing the Enzymatic Activity of a Novel Fungal Polygalacturonase for Food Industry: Optimization and Biochemical Analysis. *Recent patents on biotechnology*.vol.12, No.1.1-11. (Scopus)

39-Dina F Abd Eltawab, Nashwa A Ahmed, Yousseria. M. Shetaia, Ashraf Y El- Naggar (2018):Assessment of the Biodegradation Potentiality of Mono and Polynuclear Aromatic Hydrocarbons Using *Aspergillus flavus*. **Der Pharma Chemica, 2018, 10(3): 173-180 (Scopus)**

40-Salwa M. Samir^{1,*}, Samar S. Mohammed², Shaban M. Ahmed¹, Yousseria M. Shetaia², Kamel M. Mohammed¹ and Gamila E. El-Taweel(2019):Chemical Effect of Chlorination Process on Antibiotic Resistant Bacteria. *Egypt.J.Chem.* vol.62(2)1-12 (Scopus)

41-Rania A. Abd El Aala, Yousseria M. Shetaia, Mona S. Shafeia, Sanaa K. Gomaaa,



Hassan A. El Menoufya , Heba A. El-Refaia (2019). Optimization of parameters for lipase production by *Aspergillus niger* NRRL-599 using response surface methodology. Egyptian Pharmaceutical Journal, Vol. 18 No. 2, April-June P165-171.

42-Sara H. Ahmed, Eman M.Mokhtar, Iman M. El-Kholy, Ayman K. El Essawy, Al-Zahraa A –Karam El-Din and Yousseria M. Shetaia ⁽²⁰²⁰⁾: Fungal neonatal and infantile sepsis in Egypt: risk factors and identification of fungal isolates. *Afr. J. Clin. Exper. Microbiol.* **2020**; 21 (1): 14 – 20. African Journal of Clinical and Experimental Microbiology ISSN 1595 589X AJCEM/1971 <https://www.ajol.info/index.php/ajcem> Copyright AJCEM 2020: <https://dx.doi.org/10.4314/ajcem.v21i1.2>

43-Shrouk S. Farah; Eman M. El-Taher; Yousseria M.Shetaia; El-Adly R.A.; Doaa S. El-Desouki **(2020)**: Biosynthesis of Metallic Nanoparticles Using Fungi and Their Applications. *Academia Journal of Biotechnology* 8(1): 008-020, January 2020 DOI: 10.15413/ajb.2019.0315 ISSN 2315-7747 ©2020 Academia Publishing.

44-Nadeem I. Elhussiny, Abd El-Nasser A. Khattab, Heba A.El.Refaia, Sayeda S. Mohamed, Yousseria M.Shetaia, Hala A.Amin. **(2020)**: Assessment of waste frying oil transesterification capacities of local isolated *Aspergilli* species and mutants. *Mycoscience* 61,136-140(**scopus**)

45-Nadeem . Elhussiny , Abd El-Nasser A. Khattab , Heba A. El-Refaia , Sayeda S. Mohamed , Yousseria M. Shetaia , Hala A. Amin **(2020)**: Biotransesterification capabilities of *Mucorales* whole-cell lipase isolates and mutants . *Biocatalysis and Agricultural Biotechnology* 28 (2020) 101722(**scopus**).

46-Eslam K. M. Emara, Alkhateib Y. Gaafar and Yousseria M. Shetaia **(2020)**: *In vitro* screening for the antifungal activity of some Egyptian plant extracts against the fish pathogen *Saprolegnia parasitica* . *Aqua culture research.* 51: 4461-4470.(**Scopus**)

47-Gamal Mohamed El-Sherbiny, Mohamed Kasem Lila , Yousseria Mohamed Shetaia , Marwa M. F. Elswify , Samar Samer Mohamed **(2020)**: Antimicrobial Activity of Biosynthesised Silver Nanoparticles against multidrug-Resistant Microbes Isolated from Cancer Patients with Bacteraemia and Candidaemia. *Indian Journal of Medical Microbiology* , Volume 38 , Issue 3 (1-8)(**Scopus**).

48-Heba,A.Seddiek, Yousseria, M. Shetaia , Khaled, F. Mahmoud, Ibrahim E. EL-aassy and Shaimaa S.Hussien **(2021)**: Bioleaching of Egyptian Fly Ash Using *Cladosporium cladosporioides*. *Annals of Biology* 37 (1) : 18-22, 2021 (**Scopus**).

49-Ahmed M. Shabana , Yousseria M. Shetaia , Nayera A.M. Abdelwahed , Mona A. Esawy and Omar R. Alfarouk **(2021)**: Optimization, Purification and Antitumor Activity of *Kodamaea ohmeri* MRI ANOMY L-Asparaginase Isolated from Banana Peel. *Current Pharmaceutical Biotechnology*, 2021, 22, 646-663(**scopus**).

50-Samar Mansour Abozaid, Yousseria M. Shetaia, Kamal Abdelbaky Rabie, Basma Mahmoud Ahmed, Elham R. S. Soliman & Samar Samir Mohamed **(2021)**: Recovery of uranium from



solutions using *Aspergillus nidulans* isolated from monazite mineral. International journal of environmental analytical chemistry DOI: 10.1080/03067319.2021.1939022. 1-31(**Scopus**)
51-Hassan S. Hassana , Yousseria M. Shetaia , Mona S. Shafei , Heba A. Elrefai, Mahmoud M. Elaasser (**2021**): Optimization of riboflavin production by *Rhodotorula glutinis* using statistical design. Egyptian Pharmaceutical Journal, 19:312–320(**Scopus**).

52Hossam Badr,Ashraf El-Baz,Ismail Mohamed,Yousseria Shetaia ,Ashraf S. A. El-Sayed and Noha Sorour (**2021**): Bioprocess optimization of glutathione production by *Saccharomyces boulardii*: biochemical characterization of glutathione peroxidase. Archives of Microbiology <https://doi.org/10.1007/s00203-021-02584-0> (**Scopus**)

53-A. T. Ali; N. Elewa; N. A. Elbostany; Y. M. Shetaia; M. Swilm(2021): Antimicrobial potentiality of green synthesized iron oxide nanoparticles by *Penicillium roqueforti* Egyptian . Egy. J. Pure & Appl. Sci. **2021**; 59(1):9-24

54-Noura A. El -Far1*, Yousseria M. Shetaia1, Ahmed M.A2, Rehab M. Amin3, DaliaA.M. Abdou(**2021**): Statistical optimization of chitosan production using marine-derived *Penicillium chrysogenum* MZ723110 in Egypt, Egyptian Journal of Aquatic Biology & Fisheries, ISSN 1110 – 6131 Vol. 25(5): 799 – 819 (2021) (**Scopus**)

55-Amera Adel · Ashraf El-Baz · Yousseria Shetaia · Noha Mohamed Sorour. (2021):Biosynthesis of polyunsaturated fatty acids by two newly cold-adapted Egyptian marine yeast. 3Biotech,11:461 <https://doi.org/10.1007/s13205-021-03010-4>(**Scopus**)

56-Melad F. Soliman , Youssria M. Shetaia , Ahmed A. Tayel ,* , Alaa M. Munshi , Fuad A. Alatawi , Mohammed A. Alsieni and Mahmoud A. Al-Saman (**2022**): Exploring the Antifungal Activity and Action of *Saussurea costus* Root Extracts against *Candida albicans* and Non-albicans Species. Antibiotics 2022, 11, 327 (**Scopus**)

57-Hassaan A. El Menoufy,Sanaa K. Gomaaa, Ahmed A. Haroun,Ali N. Farag, Mona S. Shafei, Yousseria M. Shetaia, Rania A. Abd El Aala (**2022**): Comparative studies of free and immobilized partially purified lipase from *Aspergillus niger* NRRL-599 produced from solid state fermentation using gelatin-coated titanium nanoparticles and its application in textile industry. Egyptian Pharmaceutical Journal. DOI: 10.4103/epj.epj_90_21(**Scopus**)

58- Aesa, Ali,Iman kholy,Ahmed Ismaiel, Yousseria Shetaia (**2022**):A Study of Fungal Infection Prevalence, Risk Factors, Molecular Identification and In Vitro Susceptibility Testing In Patients with Pulmonary MycosisPatients with Pulmonary Mycosis .THE EGYPTIAN JOURNAL OF EXPERIMENTAL BIOLOGY (Botany) 18(1):63 .DOI: [10.5455/egyjebb.20220216032804](https://doi.org/10.5455/egyjebb.20220216032804)

59- Asmaa I. El-Shazly, Azza M. Noor El-Deen1, Nayera A. M. Abdelwahed, Yousseria M. Shetaia, Nevin A. Ibrahim, Mohamed A. Farid (2022): Medium optimization for isoflavone aglycones production from fermented defatted soybean flour by display of B-glucosidase from



Bacillus Licheniformis NRC24 and evaluation of their antiviral and antitumor activities. J. Microbiol.Biotech.Food.Sci.1-11 (**Scopus**)

60-Nadeem I. Elhussiny, Ahmed M. A. Mohamed, Heba A. El-Refai , Sayeda S. Mohamed , Yousseria M. Shetaia, Hala A. Amin and Gerd Klöck (2023): Biocatalysis of triglycerides transesterification using fungal biomass: a biorefinery approach. Fungal Biology and Biotechnology 10:12,1-9. <https://doi.org/10.1186/s40694-023-00160-3>

61-Nadeem I. Elhussieny, Heba A. El-Refai, Sayeda S. Mohamed , Yousseria M. Shetaia , Hala A. Amin and Gerd Klöck(2023): *Rhizopus stolonifer* biomass catalytic transesterification capability: optimization of cultivation conditions. Microbial Cell Factories (2023) 22:154

62-Heba Hassan Ahmed , Yousseria M Shetaia , Ashraf M Morgan , Marwa A Ibrahim , Noha S Soliman (2023) : Antifungal resistance profiles of *Candida* isolates from pediatric tertiary care hospital and in vitro efficacy of natural oils against fluconazole-resistant species. Microbes and Infectious Diseases 2024; 5(1): 359-369.

63- Amara A. Abaza, Yousseria M. Shetaia, Noha M. Sorour, Ashraf S. A. El-Sayed* and Ashraf F. El-Baz(2024): Enhancing the biosynthesis of polyunsaturated fatty acids by *Rhodotorula mucilaginosa* and *Lodderomyces elongisporus*. Bioresources and Bioprocessing (2024) 11:39.

64-Eman E. Abd Eltawab, Yousseria M. Shetaia, Tarek Mahmoud El-Mongy. Amany Badr El-Deen Abd ElAziz (2024): Evaluation and Enhancement of Bioactive Compounds of *Aspegillus terreus* Endophyte Isolated from Neem by Gamma Irradiation. Egyptian Journal of Chemistry. 1-21.

11- of published book chapters:

1-A F El-Baz, R A El Kassas, Shetaia, Yousseria M and H A El Enshasy (2021): Biosurfactant Mediated Synthesis of Nanoparticles and their Applications. Microbial Surfactants—Volume 1: Production and Applications.

2- Ashraf El-Baz, Yousseria Shetaia, Dina Y Abdelghani and Amara Adel Abaza (2024): **Myco-remediation in industrial wastewater treatment**” from a book titled "Trend in biological processes in industrial wastewater treatment" by Dr. Maulin P. Shah . published by IOP Science. doi:10.1088/978-0-7503-5678-7ch13.

3-Ashraf, El Baz, Yousseria Shetaia, Amara, Abaza, Dina, Yousri (2024): **Metabolic pattern of microbiome in health and diseases**” in book titled "Metabolic Dynamics in Attack and Defense Mechanisms of Living Organisms" published by Springer Nature. (In press).



12-Contribution in local research Projects:

-**Participated as a Research collaborative** in the research teamwork concerned with the “Improvement of Microorganisms having application and industrial importance” on National research Center 1993-1995.

-**Participated as a Research collaborative** in the main research team in project no. *P5-010-3 PET* “Treatment of petroleum pollution by using microorganisms” in the petroleum research institute.2004-2007.

-**PI** of the project supported by Public Management of Environmental Projects, Ain Shams University. 2006- 2008. The project is entitled “Production of Xylitol from cellulosic remnants using yeast isolates”.

-Participant in the Accreditation project of Faculty of science Ain Shams University as a Coordinator of Microbiology / special program Since 2009 to 2019. **Participation** in the Microbiology/Chemistry program team in the department during the external review visit for the department’s program package during the period from **21-23/4/2024**.

-Participant in project “Hairy root cultures of some endangered Egyptian endemic medicinal plants in Sinai as an alternative source of pharmaceutical active constituents “project funded by Misr El khir foundation.

- Participant in Egyptian microbial identification Center (EMIC) –capacity building STDF project (21803) since 2018.

13-Deputations

For teaching the basic and applied science (2 hrs. weekly) in the first semester of academic year 2008/2009 in the Institute of Ecology - Ain Shams University.

14- Reviewer in the journals

- **I-Peer reviewed for Process Biochemistry journal.**

II-Peer Reviewed for the following Egyptian Scientific Journals:

- Egy. J. Bot.
- Egy. J. Microbiol.
- Egy. J. Exp. Biol.
- Egy. J. chemistry



15-Member in Scientific societies

- Member of Egyptian society of Botany-Egypt
- Member of Arab society of Medical Research-Egypt
- Member of Society of Basic and Applied Mycology-Egypt
- Member of women in science in developing countries- NRC-Egypt
- Member of American Society of Microbiology

16-International Cooperation:

1-Cooperation with Prof. Dr.Ahmed Yousef Microbiology

yousef.1@osu.edu

<https://microbiology.osu.edu/people/yousef.1>

614-292-7814

Since the late 1990s, Dr. Yousef and his research team have worked in the field of antimicrobial agents, ozone, decontamination, foodborne pathogens, and inactivation mechanisms.

2-Cooperation with Prof. Dr. Shang-Tian Yang OSU –USA

Professor, Chemical & Biomolecular Eng

Professor, Food Science & Technology

151 Woodruff Ave,482 CBEC Building,Columbus, OH 43210

152 614-292-6611 ,yang.15@osu.edu

3-Cooperation with Prof.Dr. Hesham A. El Ensashy is currently a Professor at IBD
(Institute of bio products development) in UTM- Malaysia(Universiti Teknologi Malaysia)

http://scivalexpert.utm.my/expert.asp?n=Hesham+Ali+Metwally+Ali+El%2DEnsashy&u_id=529&oe_id=2&o_id=105. Phone:Ext : 31573 Email:henshasy@ibd.utm.my

17- Thesis supervision

Awarded thesis under supervision of Prof.Dr. Yousseria Shetaia

- M.Sc. thesis (23)



-Ph.D. thesis (18)

-Prof.Dr. Yousseria shetaia has still supervised the work and experiments in the following number of experimental theses:

- Ph.D. thesis (Total no.): 1

-M.Sc. thesis (Total no.): 3

18-Arbitration theses and scientific research:

a- Arbitrated and peer reviewed many Ph.D. and M.Sc. theses; research papers; research projects:

-M.Sc. theses (17)

Ph.D. theses: (2)

-Research papers: (12)

b- Arbitrated and refereed for promotion in the permanent scientific committees in Egypt:

- permanent scientific committee of Botany (Committee 48): Professor (6) and Associate Professor (3)

- National research institute committee (5)(research professor (2) + research assistant professor (3)

-the Permanent Scientific Committee of Aquatic Sciences, Fisheries and Aquaculture (1)

- The National Authority for Pharmaceutical Control and Research(research assistant professor(1)

- Standing Committee for Science in atomic energy authority (research assistant professor (2)



-Standing committee for Environment in Egyptian Petroleum Institute ,Nasr City.
(Research assistant professor. (1).

- Take part in preparation of report of scientific dishonesty by researcher Amani Al-Kalhi.

c- Arbitrated and refereed scientific book chapters:

- **The Role of microorganisms in Rehabilitation of ancient gold mines in Egypt**

d-Arbitrated and refereed the proposals of scientific projects:

- Arbitrated and refereed for scientific project in Jeddah on dermatophytes

-Arbitrated and refereed for US Egypt projects (2023):

- Name of project: Smart Solutions: Superficial application of *Citrullus Colocynthis* liquid extract for reduction of Hepatitis A on Egyptian crop surfaces

-Arbitrated and refereed for Academic research projects (2023)

-Value -added products of Egyptian microbial culture collection network.

- Bioconversion of some agro-industrial residues and wastes for enhancement to industrially important enzymes (lipase)

19-Teaching Experience

I. Under-Graduate Courses :

-General Microbiology [1st year Biology students]

-Yeast [3rd Year students - Microbiology & Microbiology/Chemistry].

- Biodegradation [3rd Year students - Microbiology].

- Microbial Transformation [3rd Year students - Microbiology].

- Selective Topics [3rd Year students - Microbiology and Microbiology/Chemistry].



-Industrial Microbiology (fermentation) [B.Sc. students - Microbiology and B.Sc. students Microbiology/Chemistry].

- Medical Mycology (B.Sc. students - Microbiology and B.Sc. students Microbiology/Chemistry).

- Essay & Sci. Res [B.Sc. students - Microbiology]

- Microbial bioprocess for students on third level in Program of " Applied and Analytical Microbiology "

- Microbial Biotechnology for students in 4th level of Microbiology and Microbiology/Chemistry programs.

II. Post-Graduate Courses:

- Physiology of Fungi - Fungi

- Microbial transformation

-yeast & fermentation technology (2 credit hours)

-Microbial Biotechnology for students in Diploma of Diagnostic Microbiology

