

CURRICULUM VITAE



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Academic Rank:	Professor	Nationality:	Egyptian
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Websites Mendeley profile	https://www.mendeley.com/profiles/abd-el-latif-hesham2/		

Academic Qualifications

1. Ph.D., 2007, in "**Molecular Genetics and Environmental Meta-Genome Biotechnology**", Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, P.R. China
Ph.D. title: Microbial degradation of PAH and environmental genomics in bioaugmentation systems using isolated yeasts
2. M.Sc., 1999, in "**Microbial Genetics**", Genetics Department, Faculty of Agriculture, Assiut University, Assiut, Egypt.
*M.Sc. title: Genetic improvement of some economical important characters in yeast *Saccharomyces cerevisiae**
3. B.Sc., 1992, in Agriculture Sciences "**Genetics**", Faculty of Agriculture, Assiut university, Assiut, Egypt.

Employment History:

1. 16 July, 2019 till now: Professor of **Molecular Genetics and Environmental Meta-Genome Biotechnology**, Genetics Department, Faculty of Agriculture, Beni-Suef University, Egypt.
2. June, 2017 to 15 July 2019: Professor of **Molecular Genetics and Environmental Meta-Genome Biotechnology**, Genetics Department, Faculty of Agriculture, Assiut University, Egypt.
3. June, 2012 to June 2017: Associate Professor of **Molecular Genetics and Environmental Meta-Genome Biotechnology**, (i) Genetics Department, Faculty of Agriculture, Assiut University, Egypt (ii) Biology Department, Faculty of Sciences King Khalid University Abha, Saudi Arabia
4. October, 2009 to November, 2010: **post-doctoral** (TWAS) research fellow in Chinese Academy of Sciences, Beijing, China
5. June, 2007 – June 2012: **Assistant** Professor of **Molecular Genetics and Environmental Meta-Genome Biotechnology**, Genetics Department, Faculty of Agriculture, Assiut University, Egypt
6. July, 1999 to June, 2007: **Assistant lecturer** of Microbial **Genetics and Biotechnology**, Genetics Department, Faculty of Agriculture, Assiut University, Egypt
7. November, 1994 to July 1999: **Demonstrator** of **Genetics**, Genetics Department, Faculty of Agriculture, Assiut University, Egypt

Research work experiences:

I am interesting in “**Molecular Genetics**”, “**Microbial Genetics**”, “**Microbial Ecology**”, “**Diversity**”, “**Biotechnology and Biofuels**”, “**Environmental Meta-genome Biotechnology**”, “**Environmental Pollution**”, “**Phytoremediation (Heavy metals)**”, “**Biodegradation & Bioremediation (Petroleum Polycyclic Aromatic Hydrocarbons (PAHs) and Rubber degradation)**”; “**Microbial community structure and diversity**”, “**Wastewater treatment**”, “**produced water**”, “**Antimicrobial Activity**”, “**Biological control**”, “**Plant Growth Promoter**”, “**Medicinal Plant**” and “**Multidrug resistant bacteria**”.

MEMBERSHIP OF INTERNATIONAL PROFESSIONAL SOCIETIES: (6 societies)

- 1- Microbiology Society, England
Membership No: C023227
<https://www.microbiologysociety.org>
- 2- European Federation of Biotechnology, Barcelona.
<http://www.efbiotechnology.org/>
- 3- The Bio-Processing Network, Australia.
<http://bioprocessingnetwork.com.au/>
- 4- International society for fungal conservation (isfc) UK (Affiliated with International Mycological Association).
<HTTP://WWW.FUNGAL-CONSERVATION.ORG/>
- 5- The Science Advisory Board, USA.
<https://www.scienceboard.net/members/home>
- 6- The International Biodeterioration & Biodegradation Society
<http://ibbsonline.org/membership/>

Organizing Committee Member for international conferences

- 1- **International Conference and Exhibition on Biochemical & Molecular Engineering October 07-08, 2013 Hilton San Antonio Airport, USA.**
- 2- **5th World Congress on Biotechnology , June 25-27, 2014 at Valencia, Spain**
- 3- **INTERNATIONAL CONFERENCE AND EXHIBITION ON GENOME SCIENCE**

Jan 29-31, 2018, Flamingo, Las Vegas , Nevada, USA

https://helicsgroup.net/index.php/user/member_details/350/2

4- 2018 International Conference on Biotechnology and Bioengineering (8th ICBB 2018)

October 24-26, 2018 Budapest, Hungary.

<http://icbb.apaset.org/2018/organizers/>

5- International Summit on Biotechnology & Healthcare April 22-24, 2019 Dubai, UAE

<https://biotechnology.inovineconferences.com/organizing-committee.php>

6- Asian Conference on Science, Technology & Medicine (ACSTM 2019), February 12-14, 2019 Dubai, UAE.

<http://medical.acstm.org/committee.php>

PROJECTS AND GRANTS

1- Tempus Joint European Project for " Establishing a Sugar Science and Technology B.Sc. Study Program" From : 2007-To 2009.

<http://www.aun.edu.eg/essitech-tempusproject/mainpage.html>

2- Project No. (KKU-SCI -11 /005) from King Khalid university, Saudi Arabia " Production of single-cell protein and bioenergy – ethanol- from dates' wastes (spoilage and useless dates) by local yeast strains" 2011. (Project Co-Investigator)

3- Project No. (KKU-SCI -114) from King Khalid university, Saudi Arabia "An application of Molecular biology tools for understanding genetic pathway of petroleum aliphatic and aromatic hydrocarbons degradation by microorganisms" 2012. (Project Investigator)

4- Project No. (A.T. 34-267) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia "16S rRNA gene sequences analysis of petroleum degrading bacteria isolated from ABHA Area." 2013 – 2015. (Project Investigator).

5- Project No. (A-1-34-262) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia "Genetic Diversity Analysis and Biological Activities of *Ziziphus spina-christi* (L.) Desf. Populations Collected From Different Elevation of Abha Region, KSA" 2013 – 2015. (Project Co-Investigator)

- 6- Project No. (O.T. 34-310) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia “**Genetic Characterization of Protease Producing Yeasts Isolated from ABHA Area**” 2013 – 2015. **(Project Investigator)**
- 7- Project No. (AT -35-421.) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia “**Isolation and Molecular Characterisation of Hydrocarbon Degrading Yeasts Exhibiting Potential Application in Bioremediation**” 2014 – 2016 **(Project Co-Investigator)**
- 8- Project No. (A.T. 36-253) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia “**Phylogenetic analysis and assessment ability of soil borne fungi for biodegradation of some locally used pesticides**” 2015 – 2016. **(Project Investigator)**
- 9- Project No. (A.T. 3-270) from King Abdul-Aziz City for Science and Technology (KACST) Saudi Arabia “**Molecular Genetic Characterization of Citric Acid Producing Yeasts Isolated from Saudi Arabia**” 2015 – 2016. **(Project Investigator).**
- 10- ASRT bilateral research project with the National Natural Science Foundation of China “**Occurrence and fate of antibiotics and antibiotic resistant pathogens in hospital wastewater and the receiving water systems**” 2019 – 2021. **(Project Investigator).**

	Scopus
Total citations	995
Papers	63
<i>h</i>-index	17

	Google Scholar
Total citations	1770
<i>h</i>-index	22
i10-index	41

List of Journals & Impact Factor

<u>No</u>	<u>Journal title</u>	<u>No. of Papers Published in Journal</u>	<u>Impact Factor for paper</u>	<u>Sum of Impact Factor</u>
	<i>Phytotherapy Research</i>	1	4.087	4.087
	<i>Fuel</i>	1	5.578	5.578
1	<i>Current Genomics</i>	2	2.630	5.260
2	<i>Frontiers in Veterinary Science</i>	2	2.245	4.490
3	<i>Desalination and Water Treatment</i>	1	1	1.234
4	<i>Scientific Reports</i>	1	1	4.011
5	<i>Mycobiology</i>	1	1.416	1.416
6	<i>Biomolecules</i>	1	4.694	4.694
7	<i>Molecular Biology Reports</i>	1	2.107	2.107
8	<i>Food and Energy Security</i>	1	5.212	5.212
9	<i>Microbial Pathogenesis</i>	1	2.914	2.914
10	<i>Egypt Journal of Biological Pest Control</i>	1	0.763	0.763
11	<i>Genetics and Molecular Research</i>	1	0.765	0.765
12	<i>Geomicrobiology Journal</i>	1	1.972	1.972
13	<i>Russian Journal of Genetics</i>	1	0.575	0.575
14	<i>Cytology and Genetics</i>	1	0.445	0.445
15	<i>International Journal of Phytoremediation</i>	1	2.528	2.528
16	<i>Technology and Health Care</i>	1	0.806	0.806
17	<i>Rendiconti Lincei</i>	2	1.603	
18	<i>Bulletin of the Chemical Society of Ethiopia</i>	1	0.872	0.872
19	<i>Pakistan Journal of Pharmaceutical Sciences</i>	1	0.804	0.804
20	<i>Journal of Environmental Biology</i>	1	0.781	0.781
21	<i>BioMed Research International.</i>	2	2.583	5.166
22	<i>Journal of Environmental Sciences</i>	3	4.302	
23	<i>Arabian Journal for Science and Engineering</i>	1	1.711	1.711
24	<i>Microbiology</i>	2	1.027	2.054
25	<i>Biotechnology and Bioprocess Engineering</i>	1	2.213	2.213
26	<i>Biocontrol Science and technology</i>	1	1.215	1.215
27	<i>International Journal of Agriculture and Biology</i>	2	0.869	1.738
28	<i>Annals of Microbiology</i>	2	1.431	2.862
29	<i>Environmental Science and Pollution Research</i>	4	3.056	12.224
30	<i>Biodegradation</i>	1	2.805	2.805
31	<i>Applied Microbiology and Biotechnology</i>	3	3.670	11.010
32	<i>Journal of Microbiology and Biotechnology</i>	1	1.992	1.992
33	<i>World journal of microbiology and biotechnology</i>	1	2.652	2.652
34	<i>Process Biochemistry</i>	1	2.952	2.952
35	<i>Journal of Soils and Sediments</i>	2	2.763	5.526
36	<i>Science of the Total Environment</i>	1	6.551	6.551
37	<i>Yeast</i>	1	2.30	2.30
38	<i>Biotechnology letters</i>	1	2.154	2.154
<i>Total impact factors for all Journals</i>				

International publications

1. Farkas C, Rezessy-Szabó J, Gupta VK, Bujna E, Csernus O, Nguyen D, Friedrich G, **Hesham A**, Dono A, Thakur V, Nguyen Q (2020) Application of chitosan-based particles for deinking of printed paper and its bioethanol fermentation, **Fuel**, <https://doi.org/10.1016/j.fuel.2020.118570> . (IF 5.578) .
2. Srivastava S, Dashora K, Ameta K, Singh NP, El-Enshasy HA, Pagano MC, **Hesham A**, Sharma GD, Sharma M, Bhargava A (2020) Cysteine-rich antimicrobial peptides from plants: The future of antimicrobial therapy. **Phytotherapy Research** DOI: [10.1002/ptr.6823](https://doi.org/10.1002/ptr.6823) (IF 4.087)
3. Asmaa M.M. Mawad, **Hesham A**, Naiema M. H. Yousef, Shoreit AM, Gathergood N and Gupta VK, (2020) “Role of Bacterial-Fungal Consortium for Enhancement in the Degradation of Industrial Dyes”, **Current Genomics**, 21(4):283-294. <https://doi.org/10.2174/1389202921999200505082901> . (IF 2.630)
4. Rehan AF, Rehan IF, Hussien MA, Eleiwa NZ, Abdel-Rahman MA, Fahmy SG, Ahmed AS, Youssef M, Diab HM, Alkahtani SH, Abdel-Daim MM, Shanab O, Ahmed EK, Hassan H, Elnagar A, Elkelish A, **Hesham A** and Maky MA (2020). Egg Yolk IgY: A novel Trend of Feed Additives to Limit Drugs and to Improve Poultry Meat Quality. **Frontiers in Veterinary Science**. doi: [10.3389/fvets.2020.00350](https://doi.org/10.3389/fvets.2020.00350) . (IF 2.245).
5. Sukmawati D, Shabrina A, Indrayanti R, Kurniati TH, Nurjayadi M, Hidayat I, Al Husna SN, Ratnaningtyas NI, El Enshasy H, Dailin DJ and **Hesham A**, (2020) “Antifungal Mechanism of *Rhodotorula mucilaginosa* and *Aureobasidium* sp. nov. Isolated from *Cerbera manghas* L. Against the Growth of Destructive Molds in Post Harvested Apples. **Recent Patents on Food, Nutrition & Agriculture** (2020) 11: 1. <https://doi.org/10.2174/2212798411666200423101159>
6. Asmaa M.M. Mawad , Wael S. Abdel-Mageed and **Hesham A**. (2020) Quantification of Naphthalene Dioxygenase (NahAC) and Catechol Dioxygenase (C23O) Catabolic Genes Produced by Phenanthrene-Degrading *Pseudomonas fluorescens* AH-40. **Current Genomics**, **21(2): 111-118**. DOI: [10.2174/1389202921666200224101742](https://doi.org/10.2174/1389202921666200224101742). (IF 2.630)
7. Rehan IF, Youssef M, Abdel-Rahman MAM, Fahmy SG, Ahmed E, Ahmed AS, Maky MA, Diab HM, Shanab O, Alkahtani S, Abdel-Daim MM, Hassan H, Rehan AF, Hussien MA, Eleiwa NZ, Elnagar A, Abdeen A and **Hesham A** (2020) The Impact of Probiotics and Egg Yolk IgY on Behavior and Blood Parameters in a Broiler Immune Stress Model. **Frontiers in Veterinary Science**. 7:145. doi: [10.3389/fvets.2020.00145](https://doi.org/10.3389/fvets.2020.00145). (IF 2.245).
8. Khan S, Ali S, Muhammad S, Khan B, Ali A, **Hesham A**, Begum S. (2020) Bacterial contamination in drinking water of urban Peshawar: a comparative study at the sources and user points of tube wells. **Desalination and Water Treatment**, 181:221-227. DOI: <https://doi.org/10.5004/dwt.2020.25103>. (IF.854).
9. Rehan, I.F., Mahmoud, M.E., Salman, D., Elnagar A, Salman S, Youssef M, Abdel Aziz A.R., Eman Kamal Bazh E.K., **Hesham A**. (2020) Sialylated N-glycan profile during acute and chronic infections with *Toxoplasma gondii* in mice. **Scientific Reports** **10**, 3809 (2020). <https://doi.org/10.1038/s41598-020-60681-4>. (IF 4.011).
10. **Hesham A**, Yasser S. Mostafa & Laila Essa Omar AlSharqi (2020) Optimization of Citric Acid Production by Immobilized Cells of Novel Yeast Isolates, **Mycobiology**, **48(2): 122-132**. DOI: [10.1080/12298093.2020.1726854](https://doi.org/10.1080/12298093.2020.1726854) . (IF 1.416)

11. Mukherjee, A., Verma, J.P., Gaurav, A.K., Chouhan G.K., Patel J.S., **Hesham A.** (2020) Yeast a potential bio-agent: future for plant growth and postharvest disease management for sustainable agriculture. *Applied Microbiology and Biotechnology*, 104(4):1497-1510. [Doi:10.1007/s00253-019-10321-3](https://doi.org/10.1007/s00253-019-10321-3). (IF 3.530)
12. **Hesham A**, Heba G, Abd El-Fatah B., Saleh F and Al-Bedak O (2019) Molecular identification of naturally isolated *Candida tropicalis* AUN-H100 and optimization of their extracellular amylase production. *International Journal of Agricultural Sciences and Veterinary Medicine*, Vol. 7(4): 28-34.
13. **Hesham A**, Sabreen IH, Ameen K, Rania F, and El-Rawy M (2019) Biosynthesized Silver Nanoparticles using *Schwanniomyces Vanriijiae* and its Antimicrobial Activity Against Pathogens. *Biomedical Journal of Scientific & Technical Research*, vol. 21(1) 15515-15521. [DOI: 10.26717/BJSTR.2019.21.003535](https://doi.org/10.26717/BJSTR.2019.21.003535).
14. **Hesham A, Fatma A and El Sayed N** (2019) RAPD-PCR Fingerprinting for Some *Rhodotorula* Species Isolated from Natural Sources and their Antagonistic Potential Against *Erwinia Carotovora* and *Erwinia Chrysanthem*. *Biomedical Journal of Scientific & Technical Research*, vol. 21(1) 15502-15508. [DOI: 10.26717/BJSTR.2019.21.003533](https://doi.org/10.26717/BJSTR.2019.21.003533).
15. Muhammad, J., Khan, S., Su, J.Q. **Hesham A.**, Ditta A. Nawab J. and Ali A. (2019) Antibiotics in poultry manure and their associated health issues: a systematic review. *Journal of Soils and Sediments* <https://doi.org/10.1007/s11368-019-02360-0> (IF 2.669).
16. Mahmoud ME, Rehan IF, Ahmed KE, Abdelrahman A, Mohammadi S, Abou-Elnaga AF, Youssef^M, Diab HM, Salman D, Elnagar S, Mohammed HH, Shanab O, Ibrahim RM, Ahmed EKH, **Hesham A** and Gupta A (2019) Identification of serum N-glycoproteins as a biological correlate underlying chronic stress response in mice. *Molecular Biology Reports*. 46(3):2733-2748, <https://doi.org/10.1007/s11033-019-04717-7>. (IF 1.889).
17. Prateeksha , Singh BR, Gupta VK , Deeba F , Bajpai R, Pandey V , Alim H. Naqvi , Upreti DK , Gathergood N , Jiang Y , El Enshasy HA , Sholkamy EN , Mostafa AA, **Hesham A** and Singh BN (2019) Non-Toxic and Ultra-Small Biosilver Nanoclusters Trigger Apoptotic Cell Death in Fluconazole-Resistant *Candida albicans* via Ras Signaling. *Biomolecules* 2019, 9(2), 47; <https://doi.org/10.3390/biom9020047> . (IF 4.69).
18. Ebrahim M. Eid, Sulaiman A. Alrumman, Ahmed F. El-Bebany, Khaled F. Fawy, Mostafa A. Taher, **Hesham A**, Gamal A. and Mohamed T. (2019) Evaluation of the potential of sewage sludge as a valuable fertilizer for wheat (*Triticum aestivum L.*) crops. *Environmental Science and Pollution Research*, 26:392–401. <https://doi.org/10.1007/s11356-018-3617-3> (IF 2.80).
19. Abdel-Galil, F.A., Mousa, S.E., Rizk, M.M.A., Gaber H, **Hesham A**, (2018) Morphogenetic traits of the egg parasitoid *Trichogramma* for controlling certain date palms lepidopteran insect pests in the New Valley Governorate. *Egypt J Biol Pest Control*, 28: 88. <https://doi.org/10.1186/s41938-018-0095-3> . (IF 0.763). Q3

20. Sara H. Daghriri, Ahmed F. El-Bebany, Sulaiman A. Alrumman, **Hesham A (2018)** Molecular characterisation and biological control of *Aspergillus flavus* isolates from Saudi Arabia.. *Archives of Phytopathology and Plant Protection*. <https://doi.org/10.1080/03235408.2018.1480262>
21. Ebrahim M. Eid, Sulaiman A. Alrumman, Ahmed F. El-Bebany, Khaled F. Fawy, Mostafa A. Taher, **Hesham A**, Gamal A. and Mohamed T. (2018) The evaluation of sewage sludge application as a fertilizer for broad bean (*Faba sativa* Bernh.) crops. *Food and Energy Security*. <https://doi.org/10.1002/fes3.142>. (IF 3.032).
22. **Hesham A**, Gupta V., Singh B. (2018) .Use of PCR-denaturing gradient gel electrophoresis for the discrimination of *Candida* species isolated from natural habitats. *Microbial Pathogenesis*, **120: 19-22**. <https://doi.org/10.1016/j.micpath.2018.04.027>. (IF 2.009).
23. **Hesham A**, Faizah Amer Al-Tihani, Sulaiman A. Alrumman, Ahmed F. El-Bebany (2018) Phylogenetic analysis and assessment ability of *Fusarium* isolates for biodegradation of carbofuran pesticide. *Genetics and Molecular Research 17 (1): gmr16039900* (IF 0.765).
24. **Hesham A**, Sulaiman A., Abeer Dhafer S. ALQahtani (2018) Degradation of toluene hydrocarbon by isolated yeast strains: molecular genetic approaches for identification and characterization. *Russian Journal of Genetics, 2018, Vol. 54, No. 8, pp. 933–943*. (IF 0.448).
25. Ebrahim M. Eid, Ahmed F. El-Bebany, Sulaiman A. Alrumman, **Hesham A**, Mostafa A. Taher and Khaled F. Fawy (2017) The effects of different sewage sludge amendment rates on the heavy metal bioaccumulation, growth and biomass of cucumbers (*Cucumis sativus* L.) *Environmental Science and Pollution Research 24(19):16371-16382*. (IF 2.8).
26. **Hesham A**, Mohamed E, Asmaa M.M. Mawad , Ameer Elfarash A, Abd El-Fattah B and El-Rawy M (2017) Molecular Characterization of *Fusarium Solani* Degrades a Mixture of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons. *The Open Biotechnology Journal, 2017, 11, 27-35*.
27. Hashem M, **Hesham A**, Alrumman A.S, Alamri S.A. (2017) Production of Bioethanol from Spoilage Date Fruits by New Osmotolerant Yeasts. *International Journal of Agriculture and Biology* . 825-833 . (IF 0.758).
28. **Hesham A**, Sulaiman A., Mona A. Al-Dayel (2017) Screening and Genetic Identification of Acidic and Neutral Protease-Producing Yeasts Strains by 26S rRNA Gene Sequencing. *Genetics and Cytology, 51, (3) pp 221–229*. (IF 0.340).
29. Ebrahim M. Eid, Ahmed F. El-Bebany, Sulaiman A. Alrumman1, **Hesham A**, Mostafa A. Taher and Khaled F. Fawy (2017) Effects of different sewage sludge applications on heavy metal accumulation, growth and yield of spinach (*Spinacia oleracea*). *International Journal of Phytoremediation, VOL. 19, NO. 4, 340–347*. (IF 2.085).

30. Mohamed H., Rany F., **Hesham A.**, Saleh F., Younes M (2016) Identification of Yeast Strains Isolated from Agricultural Soils for Releasing Potassium-bearing Minerals. *Geomicrobiology Journal*, (34): 261- 266. . (IF 1.485).
31. Mostafa M, **Hesham A**, Alrumman S, Manal Q (2016) Variations in genetic and chemical constituents of *Ziziphus spina-christi* L. populations grown at various altitudinal zonation up to 2227 m height . *Journal of Genetic Engineering and Biotechnology*, 14(2): 349-362 ,
32. **Hesham A**, Sulaiman A., (2016) Antibacterial Activity of Miswak (*Salvadora persica*) Extracts Against Isolated and Genetically Identified Oral Cavity Pathogens. *Technology and Health Care*, (24), S841–S848. (IF 0.697)
33. Asmaa M. M. Mawad, **Hesham A**, Yasser M. Mostafa , Ahmed Shoriet A. (2016) Pyrene degrading *Achromobacter denitrificans* ASU-035: growth rate, enzymes activity, and cell surface properties. *Rendiconti Lincei*, 27:557–563. (IF 0.412)
34. Al-Sehemi A,G, Irfan A., Sulaiman A., **Hesham A.**, (2016) Antibacterial activities, Dft and Qsar studies of quinazolinone compounds. *Bulletin of the Chemical Society of Ethiopia*, 30(2), 1-10. (IF 0.577)
35. Moustafa M.F, Sulaiman A., **Hesham A**, (2016) Biological activities of some *Acacia* spp. (Fabaceae) against new clinical isolates identified by ribosomal RNA gene-based phylogenetic analysis. *Pakistan Journal of Pharmaceutical Sciences*, Vol.29, No.1, January 2016, pp.221-229. (IF 0.682)
36. Sulaiman A., **Hesham A**, Al-Amri S., (2016) Isolation, fingerprinting and genetic identification of indigenous PAHs degrading bacteria from oil-polluted soils. *Journal of Environmental Biology*, Vol. 37, 75-81. (IF 0.560)
37. Hesham A., T. Komang Ralebitso-Senior, Zhang Y., Qing X. Li (2015) Environmental Biotechnology: Current Advances, New Knowledge Gaps, and Emerging Issues. *BioMed Research International*. Volume 2015, Article ID 814529, <http://dx.doi.org/10.1155/2015/814529>. (IF 2.134)
38. Wang, Z., Pan F., **Hesham A**, et al., (2015) Impacts of produced water origin on bacterial community structures of activated sludge. *Journal of Environmental Sciences*. 37(1)192-199. (IF 2.208)
39. **Hesham A**, Alrumman A.S, Jawaher A. Al-Amari (2015) 16S rDNA phylogenetic and RAPD-PCR analysis of petroleum polycyclic aromatic hydrocarbons degrading bacteria enriched from oil-polluted soils. *The Arabian Journal for Science and Engineering*. 41:2095–2106. (IF 1.711)

40. Khaldoun O and Hesham A. (2015) Biochemical and genetic evidences of anthocyanin biosynthesis and accumulation in a selected tomato mutant. *Rendiconti Lincei*, 26:293-306. (IF 0.412)
41. Hesham A, Nadia H, Mady I, Ahmed Shoriet A. (2015) Degradation of natural rubber latex by new *Streptomyces labedae* strain ASU-03 isolated from Egyptian soil and identified based on genes sequences. *Microbiology*, Vol. 84, No. 3, pp. 351–358 . (IF 0.796)
42. Osama M., Hesham A., Hanaa M. (2015) Genetic polymorphism of *Bulinus truncatus* the intermediate host of *Schistosoma haematobium* in Egypt using ISSR markers. *International Journal of Development Research*. Vol. 5, Issue, 02, pp. 3540-3544.
43. Hesham A, Asmaa M. M. Mawad, Yasser M. Mostafa , Ahmed Shoriet A. (2014) Biodegradation ability and catabolic genes of petroleum-degrading *Sphingomonas koreensis* strain ASU-06 isolated from Egyptian oily soil. *BioMed Research International*. doi.org/10.1155/2014/127674. (IF 2.134)
44. Hesham A, Asmaa M. M. Mawad, Yasser M. Mostafa , Ahmed Shoriet A. (2014) Study of Enhancement and Inhibition Phenomena and Genes Relating to Degradation of Petroleum Polycyclic Aromatic Hydrocarbons in Isolated Bacteria. *Microbiology*. Vol. 83, No. 5, pp. 599–607. (IF 0.796).
45. Islamud-Din, Hesham A, Ayaz Ahmad A, Cang Daqiang C, and Khan S. (2014) PCR-DGGE and real-time PCR *dsrB*-based study of the impact of heavy metals on the diversity and abundance of sulfate-reducing bacteria.. *Biotechnology and Bioprocess Engineering*, 19 (4): 703-710. (IF 1.211).
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1. **Hesham A**, Kaur T, Devi R, Kour D, Yadav N, Prasad S, Singh J, Yadav AN (2021) Current Trends in Microbial Biotechnology for Agricultural Sustainability: Conclusion and Future Challenges. In: Yadav A.N., Singh J., Singh C., Yadav N. (eds) Current Trends in Microbial Biotechnology for Sustainable Agriculture. Environmental and Microbial Biotechnology. Springer, Singapore. https://doi.org/10.1007/978-981-15-6949-4_22 .
2. El-Defrawy M. H., and **Hesham A** (2020) G-protein-coupled Receptors in Fungi (Chapter 3). IN: “Fungal Biotechnology and Bioengineering” ISBN: 978-3-030-41869-4. Springer Nature Science Publishers, USA. DOI: [10.1007/978-3-030-41870](https://doi.org/10.1007/978-3-030-41870).
3. Asmaa M. M. Mawad, **Hesham A**, Sardar Khan S and Nawab J (2020) The Role of Fungi and Genes for the Removal of Environmental Contaminants from Water/Wastewater Treatment Plants (Chapter 15). IN: “Fungal Biotechnology and Bioengineering” ISBN: 978-3-030-41869-4. Springer Nature Science Publishers, USA. DOI: [10.1007/978-3-030-41870](https://doi.org/10.1007/978-3-030-41870)
4. Kour D, Yadav N, Yadav AN, Rastegari AA, **Hesham A**, Singh B, Chauhan VS, Sachan SG, Saxena AK (2019). Metabolic Engineering to Synthetic Biology of Secondary Metabolites Production. In: New and Future Developments in Microbial Biotechnology and Bioengineering. Microbial Secondary Metabolites Biochemistry and Applications. (eds Gupta VK et al.), [ISBN: 97804444635044; Elsevier, USA], chapter 20 Pages 279-320. <https://doi.org/10.1016/B978-0-444-63504-4.00020-7>.
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7. Srivastava M, Srivastava N, Mishra D, Gupta VK, Mishra PK, **Hesham A**, Ramteke PW (2019). Nanomaterials based electrochemical biosensors for Aflatoxin-B1 detection (Chapter 18): IN:

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1. Alrumman A.S, **Hesham A**, (2015) Production and optimization of acid and neutral proteolytic enzymes by yeast strains isolated from soil of Saudi Arabia .9th Biotechnology Congress during August 31- September 02, 2015 at Hyatt Regency, Orlando, Florida USA. **Poster Presentations.**
2. Alrumman A.S, **Hesham A**, (2014) Degradation of Petroleum Polycyclic Aromatic Hydrocarbons by Bacterial Strains Isolated from Oil-Contaminated Soils in ABHA Region, KSA. Australian Society for Microbiology Annual Scientific Meeting, 5th to 9th **July**, Australia. **Poster Presentations.**
3. **Hesham A**, Alrumman A.S (2014) In Vitro antibacterial activity of different *Salvadora persica* miswak extracts against isolated and genetically identified oral cavity pathogens. **The 5th World Congress on Biotechnology** which will be held on June 25-27, 2014 at Valencia, **Spain**. **Oral presentation**
4. Hesham A, (2013). Molecular genetics approaches for understanding operational problems in wastewater treatment plants. **"International Conference and Exhibition on Biochemical & Molecular Engineering "** October 07-08, 2013 Hilton San Antonio Airport, TX, **USA** . **Oral presentation**
5. **Hesham A**, and Yang M., (2012). Abundance and diversity of *Microthrix parvicella* in a sewage plant as determined by real time PCR and 16S rRNA gene clone library. **"1st Biotechnology World Congress"**, Dubai, UAE from 14th -15th February, 2012. **Oral presentation**
6. **Hesham A**, et al., (2010). Dynamics of filamentous bacterial population in a sewage treatment plants during the occurrence of sludge bulking and foaming. ISME13 – Stewards of a Changing Planet, 22-27 August 2010, Seattle, Washington, **USA** . **Oral presentation**
7. **Hesham A**, et al., (2010). Changes of *Microthrix parvicella* Population in a Sludge Bulking Occurring Sewage Treatment Plant. ISABE'2010 International Symposium on Advanced Biological Engineering "Biotechnology for Sustainable Industry and Society" 23-25 July, 2010 Beijing, **China** . Oral presentation.
8. **Hesham A**, et al., (2010). Meta-Genomics and Biodegradation of PAHs using isolated yeast strains. the 6th international conference on interfaces against pollution (IAP 2010) Time: May 16-19, 2010, Place: Beijing, **China**. **Oral presentation.**
9. **Hesham A**, Motamed E, and Abo El-Wafa A (2009) isolation and molecular characterization of catabolic genes related to phenanthrene-degrading bacteria. 1st international conference on

biotechnology (Towards Knowledge Based- Economy) Feb 16- 18, center of excellence in biotechnology research, King Fahad cultural center, Riyadh, **Saudi Arabia. Oral and poster presentation**

10. **Hesham A**, and Yang M, (2008) PAHs degradation and Meta-Genomics: molecular genetics tools for tracking microbial community diversity in biological systems. The 12th international symposium on microbial ecology. August 17-22, 2008, Cairns, **Australia . Oral presentation**
11. **Hesham A**, (2008) Genetic characterization of a yeast strain able to degrade petroleum polycyclic aromatic hydrocarbons. The 1st International Conference on Environmental Studies and Research. April 7-9, Minufiya University, Sadat City. **Egypt. Oral presentation**
12. **Hesham A**, and Yang M, (2007) Yeast genetic diversity and HMW-PAHs degradation in biological systems: estimation by PCR-DGGE and fluorescent in situ hybridization. XXIII International Conference on Yeast Genetics and Molecular Biology Conference. July 1-6, Melbourne, **Australia. Oral presentation**
13. **Hesham A**, Tao Y, Zhang Y, Yang M (2006) .Microbial community and PAHs degradation in biological system using FISH and DGGE of 16S and 26S rDNA polymerase chain reaction products. The 3rd International Symposium on Persistent Toxic Substances. October 22-25, Beijing, **China. Oral presentation**
14. **Hesham A**, Wang Z, Zhang Z, Zhang Y, Liu X, Yang M. (2006) Biodiversity of PAH degradation bacteria enriched from aerobic sludge: phenanthrene degrading genes. IWA World Water Congress and Exhibition.10-14 September Beijing, **China. Long Oral presentation.**
15. Wang Z, Zhang Y, Liu X, **Hesham A**, Yang M. (2006) Microbial population dynamics and catabolic genes for PAHs removal of activated sludge for produced water treatment . The 11th International Symposium on Microbial Ecology. August 20-25, Vienna, **Austria. poster presentation**
16. **Hesham A**, and Yang M. (2006) Use of slurry reactors to degrade PAHs in crude oil by yeast strain mixture isolated from oily soil. The 1st International Symposium on advanced biological engineering and science. March 16-18, Beijing, **China. Oral presentation**
17. **Hesham A**, Wang Z, Zhang Y, Zhang J, Yang M. (2005) Biodegradation of High-Molecular Polycyclic Aromatic Hydrocarbons by Candida sp. Strain AEH. The 2nd China International Symposium on Persistent Toxic Substances. May 15-18, Beijing, **China. Oral presentation**

M.Sc., PhD Supervision and Examination:

As PhD Supervisor

- 1- 2007 – 2012: **“Isolation and Molecular characterization of phosphorus solublizing yeasts, and their use as biofertilizers”**

Researcher: Mrs **Rania Faisal**

Genetics Department, Faculty of Agriculture, Assiut University, Assiut 71526, **Egypt**.

As M.Sc. Supervisor

- 1- 2007 – 2012 **“Phenotypic and molecular genetic studies on natural yeasts isolated from Egyptian dairy products”**

Researcher: Miss **Zeinab Abd El-Moghis Mahmoud**

Genetics Department, Faculty of Agriculture, Assiut University, Assiut 71526, **Egypt**.

- 2- 2008 – 2012 **“Isolation and genetic characterization of polycyclic aromatic hydrocarbons (PAHs) - degrading bacteria”**

Researcher: Mrs **Asmaa M.M. Moawed**

Botany Department, Faculty of Science, Assiut University, Assiut 71526, **Egypt**

- 3- 2009 – 2013 **“Isolation and molecular characterization of yeast strains from Kenyan dairy industries and their potential utilization in bioethanol production from whey”**

Researcher: Miss **Virginia Wambui Kimani**

Institute of Biotechnology Research, Jomo Kenyatta University of Agriculture & Technology, Nairobi, **Kenya**.

- 4- 2013 – 2015 **“16S rRNA gene sequences analysis of petroleum degrading bacteria isolated from ABHA Area.”**

Researcher: Mrs **Jawaher Ahmad Al-Amari**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

- 5- 2013 – 2015 **“Genetic Diversity Analysis and Biological Activities of *Ziziphus spina-christi* (L.) Desf. Populations Collected From Different Elevation of Abha Region, KSA”**

Researcher: Mrs **Manal Saleh Quraishi**

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- 6- 2013 – 2015 **“Genetic Characterization of Protease Producing Yeasts Isolated from ABHA Area”**

Researcher: Mrs **Mona abduullah Maree Al-Dayel**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

- 7- 2014 – 2015 “**Isolation and Molecular Characterisation of Hydrocarbon Degrading Yeasts Exhibiting Potential Application in Bioremediation**”

Researcher: Mrs **Abeer Dhafer S. ALQahtani**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

- 8- 2015 – 2016 “**Phylogenetic analysis and assessment ability of soil borne fungi for biodegradation of some locally used pesticides**”

Researcher: Mrs **Faizah Amer Alitihany**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

- 9- 2015 – 2016 “**Molecular Genetic Characterization of Citric Acid Producing Yeasts Isolated from Saudi Arabia**”

Researcher: Miss **Layla Isa Omar Al-Sgarqi**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

As M.Sc. and PhD Examiner

- 1- 2015, “**Biodiversity of yeasts associated with fruits and vegetables in Abha city**”

M.Sc. student: Mrs **Sherifa Ahmed Abdalla**

Biology Department, College of Science, King Khalid University, Abha, **Saudi Arabia**.

- 2- July, 2015, “**Drinking water contamination with arsenic and human health risk in southern Khyber Pakhtunkhwa**”

PhD student: Mr. **Ubaid ur Rehman**

Environmental Sciences Department, University of Peshawar, Peshawar, **Pakistan**.

- 3- December, 2014, “**Bioremediation of heavy metals present in industrial wastewater**”

PhD student: Miss **Isha Shamshad**

Environmental Sciences Department, University of Peshawar, Peshawar, **Pakistan**.

- 4- January, 2012, “**Bioaccumulation and biomarker responses in fingerlings of *cirrhinus mrigala* upon cadmium exposure**”

PhD student: Miss **A. MALARVIZHI**

School of Life Sciences, Bharathiar University, Coimbatore, **India**.

Leader Guest Editor:

For Special Issue titled “***Environmental Biotechnology: Current Advances, New Knowledge Gaps, and Emerging Issues: 2015***”

Journal : BioMed Research International. . [impact factor = 2.706]

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Associate editor and Editorial Board member for the following Scientific Journals:

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7- International Journal of Agriculture & Biology (Impact factor 0.822)

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10- Journal of Pure and Applied Microbiology

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11- *Biocatalysis and Agricultural Biotechnology*

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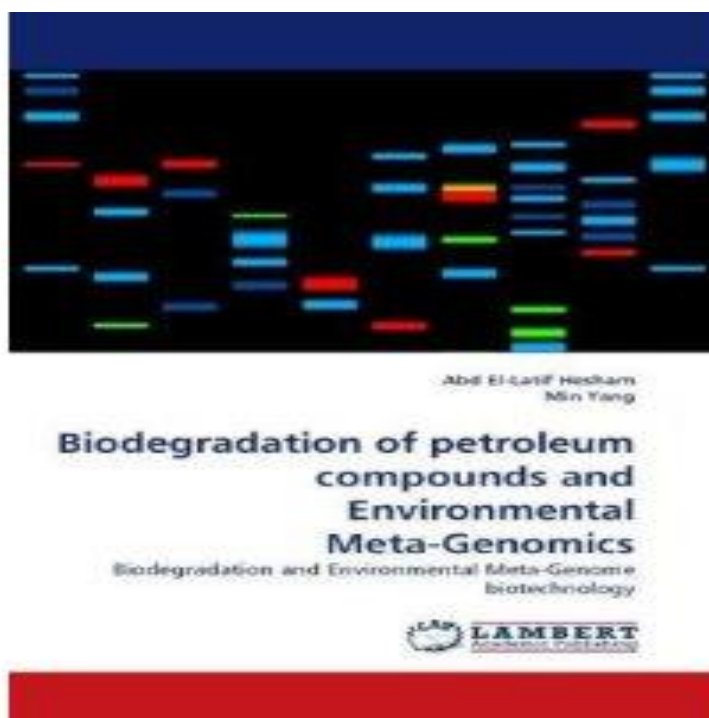
12- International Journal of Genetics

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Published book

1- "Biodegradation of petroleum compounds and Environmental
Meta-Genomics"

Abd El Latif Hesham and Min Yang



<http://www.amazon.com/s?ie=UTF8&keywords=Metagenomics&rh=i%3Aaps%2Ck%3AMetagenomics&page=1>

2- “Fungal Biotechnology and Bioengineering”



<https://www.springer.com/gp/book/9783030418694>

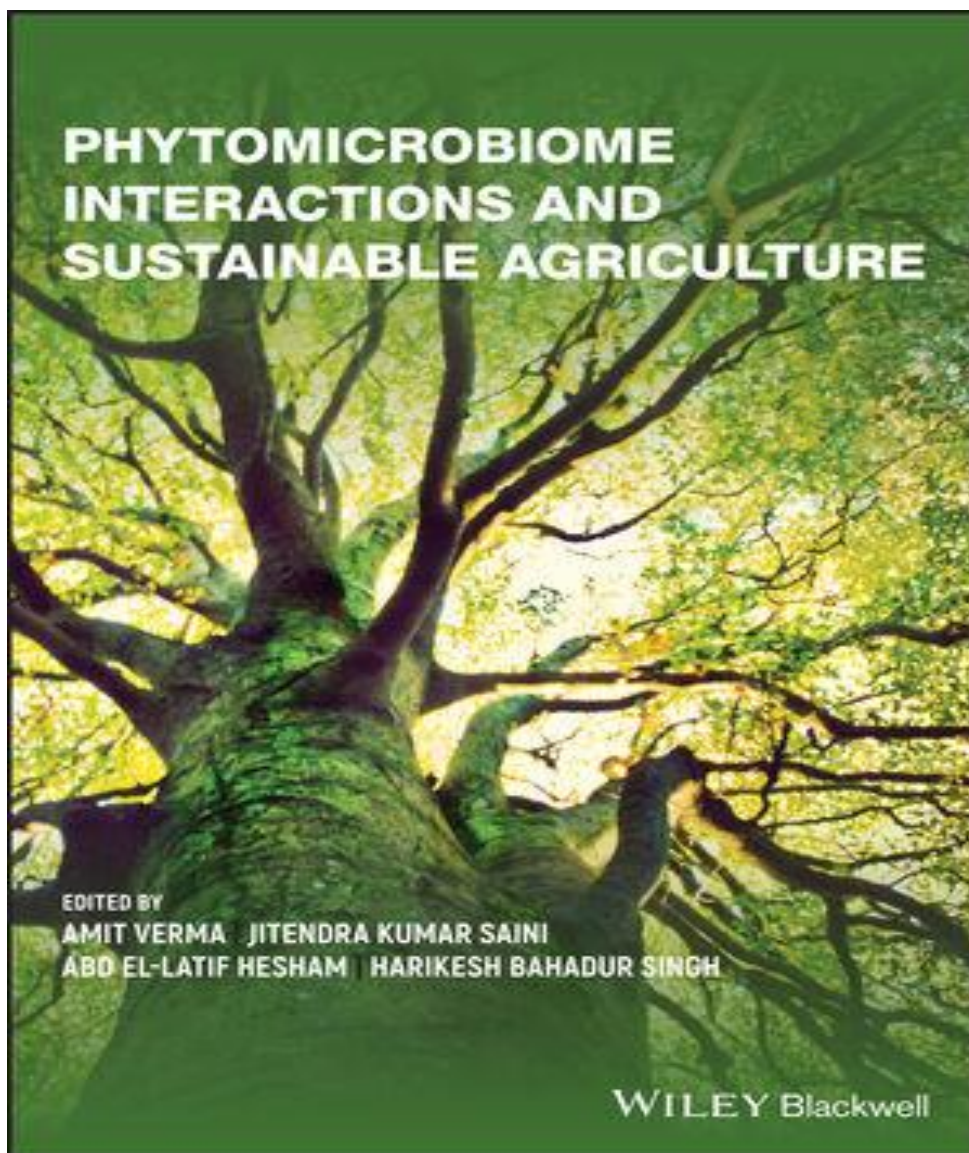
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