



CURRICULUM VITAE

NAME:

Dr. Mohsen Mohamed Selim Asker

AFFILIATED:

National Research Center (NRC) Genetic
Engineering and Biotechnology Division,
Microbial Biotechnology Department

MAILING ADDRESS:

Microbial Biotechnology Department
National Research Center, El-Behoos
Street, Dokki-Cairo, 12311, [EGYPT](#)

CURRENT POSITION:
(PROFESSIONAL CAREER)

Associate professor Microbial Biotechnology

ACADEMIC FIELD:

Microbial Biotechnology

SPECIALIZATION FIELD:

Microbial Polysaccharides, Microbial
Secondary Metabolites & Enzymeology

NATIONALITY:

Egyptian

DATE OF BIRTH:

January 1, 1972

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EDUCATIONAL BACKGROUND: (Most recent first):

- ◆ B. Agriculture Sci. (Biochemistry) Faculty of Agriculture, Zagazig University (1994).
- ◆ M. Sc. (Biochemistry), Faculty of Agriculture, Cairo University (2000).

"Biochemical Studies on the Production of Microbial Exopolysaccharides"

- ◆ Ph.D. (Biochemistry), Faculty of Agriculture, Cairo University (2005).

"Chemical Studies on the Production of Microbial Sulfated Polysaccharides"



APPOINTMENTS:

- ✚ **1996-1998.** Scholarship in Microbial Biotechnology Department, National Research Center, Dokki, **Cairo, Egypt**
- ✚ **1998-2000.** Research Assistant in Microbial Biotechnology Department, National Research Center, Dokki, **Cairo, Egypt**
- ✚ **2000-2006.** Assistant Research in Microbial Biotechnology Department National Research Center, Dokki, **Cairo, Egypt**
- ✚ **2006-2011.** Researcher, in Microbial Biotechnology Department National Research Center, Dokki, **Cairo, Egypt**
- ✚ **2011- 2016.** Associate Prof of Microbial Biotechnology, Microbial Biotechnology Department, Genetic Engineering and Biotechnology Division, National Research Center, **Cairo, Egypt**
- ✚ **2016- Present.** Professor of Microbial Biotechnology, Microbial Biotechnology Department, Genetic Engineering and Biotechnology Division, National Research Center, **Cairo, Egypt**

MEMBERSHIP IN SCIENTIFIC COMMITTEES:

- ✚ Member, Egyptian Society of Applied Microbiology
- ✚ Member, Egyptian Society of Genetics & Biotechnology
- ✚ Member, Egyptian Society of Chemistry
- ✚ Member, Saudi Biological Society (**Kingdom of Saudi Arabia**)
- ✚ Member, the European Association of Pharmacology and Biotechnology (**EAPB**)
- ✚ Asia-Pacific Chemical, Biological & Environmental Engineering Society (**APCBEES**)
- ✚ Member, National Committee for Microbiology (**ARST**)

CONFERENCES AND TRAINING COURSES:

- 1- Modern application of HPLC technique. **7 -11/9/ 1997 (NRC)**
- 2- Qualitative and quantitative determination by HPLC. **2 -13/11/1997 (NRC)**
- 3- Paper and Column Chromatography **1998 (NRC)**
- 4- Satieties in biology science. **8/2 - 5/3/1998 (NRC)**
- 5- The new methods for separation and identification of enzymes **2000 (NRC)**
- 6- Application of PCR in plant, animal and medicine. **5 -12/2/2000 (NRC)**
- 7- Technology of DNR manipulation **13 -17/2/2000**. In Institute of Graduate Studies & research



(IGSR), Alexandria University, Egypt

- 8- Application of Isotopes in Biotechnology. **12/10 to 8/11/2000**. In Middle Eastern Radioisotope Center, For the Arab Countries **Egypt**
- 9- 1st International Egyptian-Jordanian Conference under the theme of "Biotechnology and Sustainable Development: Current Status and Future Scenarios" **11-14 Dec. 2006, Cairo, Egypt**
- 10- Symposium under the theme "Applications of Biotechnology in genetic improvement of Microorganisms and Ethics" **5 February, 2007, Cairo Egypt**
- 11- Workshop on "Formulation and Writing Project Proposals" **11-13 March, 2008, NRC-Egypt**
- 12- Use of Isotopes in determination of biological and biochemical compounds in biological analysis by used Radio Amino assay **20 -31/7/2008**. In Middle Eastern Radioisotope center, For the Arab Countries **Egypt**
- 13- International Symposium on "Health Risk Management and Mitigation of Algal Toxins in Food and Drinking Water", **15th December, 2008, ASRT-Egypt**
- 14- The 4th International Conference of Pharmaceutical and Drug Industries Research Division. *Under the theme "Research and Development in Drugs"* Current Challenges **March 3-5, 2009, Cairo Egypt (Oral presentation)**
- 15- Symposium under the theme "Combating the metal MIC and its importance in the petroleum and industrial sectors" **13th April, 2009, NRC, Egypt**
- 16- Symposium under the theme "Plant Biotechnology Applications" **4/5/2009, NRC, Egypt**
- 17- The 3th International Conference of Genetic Engineering & Biotechnology Research Division **"Biotechnology for Better Life" November 3-5, 2009, Cairo Egypt (Poster)**
- 18- The 25th International Carbohydrate Symposium. **August 1–6, 2010, Tokyo, JAPAN (Poster)**
- 19- "First Winter School on Industrial Biotechnology" 2- 6 | December 2012 **Cairo, EGYPT**
- 20- Attend the first National Conference for scientific research and civil society at the International Convention Center - Cairo. **December 24, 2012, Cairo, EGYPT**
- 21- Attending and participating in the one day workshop on: "Nanotechnology: Challenges and future. Organized by advanced materials and nanotechnology group (AMNTG). 13th March, 2013. **NRC, Cairo, Egypt**
- 22- The 5th Congress of European Microbiologists. **July 21-25, 2013, Leipzig, GERMANY, (Poster)**
- 23- 11th National conference of Biochemistry and Molecular Biology "Disease Diagnosis & Health Care" 30 March – 1 April 2014, **Cairo, EGYPT**
- 24- 4th International Workshop and Conference on "NANOMATERIALS AND NONODRVICES" December 8-9, 2014, **Cairo, EGYPT**



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- 25- JSPS-AvH Alumni Joint Conference under the theme Science & Science Management for Sustainable Development, **October 24-26- 2017 (NRC)**.
- 26- The First Joint Egyptian- Italian Workshop on Innovative Scientific Research, *February 4-5, 2019 (NRC)*.

* عضو مجلس إدارة وحدة المنظفات.
* القيام بتحليل السكريات الأحادية بواسطة جهاز التحليل الكروماتوجرافي عالي الأداء (HPLC) لحساب الوحدة الاستشارية للهندسة الوراثية والتكنولوجيا الحيوية.

SUPERVISIONS:

- ✚ Seven Master Science Thesis (Faculty of Agriculture Al-Azhar University; Faculty of Science Ain Shams and Monofia University).
- ✚ Seven Ph.D. Thesis (Faculty of Agriculture Al-Azhar University; Faculty of Science Benha University; Faculty of Science Ain Shams University).

PROJECTS:

- ✚ Novel Bioactive Secondary Metabolites from Marine and Terrestrial **(STDF)**
- ✚ Bio-ethanol as bio-fuel from agricultural wastes **(ARST)**
- ✚ Production of Cortisol by Microbial Transformation Cortisolone **(NRC)**
- ✚ New drug discovery for breast and prostate cancers from medicinal plants cultivated under Egyptian condition and polysaccharides from natural sources **(NRC)**
- ✚ Production of novel marine bacterial exopolysaccharides and studying their effect on immunological response and apoptotic pathways for hepatoma cell line HepG2 **(NRC)**
- ✚ Biotechnological production of thermal process flavourings **(NRC)**
- ✚ Maximization of the agricultural wastes of food industries as a source of bioactive compounds **(NRC)**

PROFESSIONAL ACTIVITIES

Reviewer:

- 1- Regular reviewer in many international highly cited journals in the field of Carbohydrates Secondary metabolites and Enzymology..... (e.g. Carbohydrate polymers; World Journal of Microbiology and Biotechnology; Bioresource Technology; International Journal of Biological Macromolecules; Canadian Journal of Microbiology; Chemical and Biochemical Engineering Quarterly; International Research Journal of Biotechnology, African Journal of Biochemistry Research; African Journal of Microbiology; African Journal of Food Science; African Journal of Pharmacy and Pharmacology;



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International Journal for Biotechnology and Molecular Biology Research, Journal of Food Biochemistry, European Food Research and Technology).

- 2- Member of the specific scientific and technical committee & editorial review board in **World Academy of Science, Engineering and Technology (WASET)**
- 3- Regular reviewer in STDF
- 4- Regular reviewer in Umm Al-Qura University Kingdom of Saudi Arabia

3- Editorial board

- ✚ Journal of Yeast and Fungal Research. <http://www.academicjournals>
- ✚ Inter J. for Biotechnology and Molecular Biology Research <http://www.academicjournals>
- ✚ Journal of Biotechnology Letters. <http://www.bioinfo.in/journals.php>
- ✚ Journal of Enzyme Research. <http://www.bioinfo.in/journals.php>
- ✚ Inter. J. of Biotechnology Applications. <http://www.bioinfo.in/journals.php>
- ✚ Journal of Biochemistry Letters. <http://www.bioinfo.in/journals.php>
- ✚ International Journal of Biotechnology (IJB) <http://www.ijb.com>
- ✚ World Journal of Pharmaceutical Sciences <http://www.wjpsonline.org>

4- Academic Awards:

- ✚ **2009:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2010:** NRC- Award for Encouraging of Biotechnology.
- ✚ **2010:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2011:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2011:** "Who's Who in the World"
- ✚ **2012:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2013:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2014:** NRC- Award for Encouraging of Publications in International Journals.
- ✚ **2015:** NRC- Award for Encouraging of Publications in International Journals.



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BOOKS AND BOOK CHAPTERS

- 1- Abdelhamid S, Hussein A, and **Asker M.S.** (2019) Biodiesel from fungi pp. 1-62
- 2- Abdel-Aziz S. M., **Asker, M.M.S.**, Keera A.A., Mahmoud M.G. (2016). Microbial Food Spoilage: Control Strategies for Shelf Life Extension. In: Microbes in Food and Health pp 239-264

LIST OF PUBLICATIONS

- 1- Osama, H. El-Sayed, S.A. Ismail, M.E. Abd El Samei, Y.M. Ahmed and **Asker, M.M.S.** (2005). Studies on the production of sulfated polysaccharide by locally isolated bacteria, **Egyptian Pharmaceutical J., 4: 459 – 452**
- 2- Akmal, S. Gaballa, **Asker, M.M.S.**, Atiat, S. Barakat and Said, M. Teleb (2007). Synthesis, characterization and biological activity of some platinum (II) complexes with Schiff bases derived from salicylaldehyde, 2-furaldehyde and phenylenediamine. **Spectrochimica Acta part A: Molecular and Biomolecular Spectroscopy, 67: 114 – 121.**
- 3- Abd El-Aal, S. Kh. and **Asker, M.M.S.** (2007) Genetic improvement of highly gellan gum producing strains of *Sphingomonas paucimobilis* via protoplast fusion. **J. Agric. Sci. Mansoura Univ., 32: 9537 – 9545**
- 4- **Asker, M.M.S.**, Ibrahim G.S. and Mahmoud M.G. (2007). Isolation, purification and structure feature of acidic polysaccharide from *Bacillus polymyxa* NRC-A, and its biological activity. **J. Applied Science Research, 3: 1170 – 1177.**
- 5- **Asker, M.M.S.**, Mohamed S.F. and El-Sayed O.H. (2007). Chemical structure and antiviral activity of water-soluble sulfated polysaccharides from *Sargassium latifolium* **J. Applied Science Research, 3: 11778 – 1185**
- 6- Ghazi, E.A., **Asker, M.M.S.**, Emam, F.M. and El-Sayed, O.H. (2007). Description of "Biofilm formation" at different surfaces in formation water, **Egyptian J. of Biotechnology, 27: 200 – 211**
- 7- Kamel H.A. and **Asker, M.M.S.** (2008) Variation in Rhizobium Growth due to Seed and Root Exudates Released from γ -Irradiated *Glycine max* Seeds. **Isotope and Radiation Research, 40: 887– 899.**



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- 8- **Asker, M.M.S.** and Ahmed, Y.M. (2008). Purification and Characterization of L-asparaginase from *Erwinia carotovora*, **Bull. NRC, Egypt, 33: 377—388**
- 9- Abdel-Aziz M.S. and **Asker, M.M.S.** (2008) Production, Partial Purification and Characterization of Dextranucrase from *Leuconostoc mesentroides* NRRL B-512F, **Bull. NRC, Egypt, 33: 511— 524.**
- 10- Ramadan, M.F., **Asker, M.M.S.**, and Ibrahim Z. Kh., (2008). Functional Bioactive Compounds and Biological Activities of *Spirulina platensis* Lipids, **Czech J. of Food Science, 26: 211— 222.**
- 11- **Asker, M.M.S.**, Ramadan, M.F., Abd El-Aal S.Kh. and El-Kady E.M.M. (2009). Characterization of trehalose synthase from *Corynebacterium nitrilophilus* NRC, **World J. of Microbiology & Biotechnology, 25: 789—794**
- 12- **Asker, M.M.S.**, Ahmed Y.M. and Ramadan, M.F. (2009). Chemical characteristics and antioxidant activity of exopolysaccharides fractions from *Microbacterium terregens* **Carbohydrate Polymers, 77: 563—567.**
- 13- Ramadan M.F. and **Asker, M.M.S.** (2009). Antimicrobial and antiviral activity of Quercetin-enrich lecithin, **J. of Food Biochemistry, 33: 557-571.**
- 14- Mahmoud M.G., Ibrahim G.S. and **Asker, M.M.S.** (2009). Environmental and nutritional parameters controlling the production of cellulases enzyme from *Penicillium citrinum*, **Bull. NRC, Egypt, 34: 57— 71**
- 15- Shaaban Kh.A., Abdel-Aziz M.S., **Asker, M.M.S.**, and Shaaban M.A. (2009) New Microbial Bioactive Secondary Metabolites from *Streptomyces lavendulae*, **Bull. NRC, Egypt, 34: 87—100.**
- 16- Khalil Z. I., **Asker, M.M.S.**, El-Sayed S. and Kobbia I.A. (2010) Effect of pH on growth and biochemical responses of *Dunaliella bardawil* and *Chlorella ellipsoidea*, **World J. of Microbiology & Biotechnology, 26: 1225 — 1230**
- 17- Kobbia A.I., Khalil Z.I., **Asker, M.M.S.**, and El-Sayed S. (2010) Effect of nitrogen on the Biochemical constituents and antioxidant production by two unicellular Algae. **Egyptian J. of Phycology 11: 151—170**



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- 18- Hussein A.S., Ibrahim G.S., **Asker, M.M.S** and Mahmoud M.G. (2010) Exopolysaccharide from *Lactobacillus helveticus*: Identification of Chemical Structure and Effect on Biscuit Quality. **Czech J. of Food Science, 28: 225–232**
- 19- **Asker, M.M.S** and Shawky B.T. (2010) Structural characterization and antioxidant activity of an extracellular polysaccharide isolated from *Brevibacterium otitidis* BTS 44. **Food Chemistry, 123: 315–320**
- 20- Sayed, A.I.H., El-Morsy, S.I., Abd-El-Aal, S. Kh., **Asker, M.M.S.**, and El-Shaer, H.F.A. (2010). Production of sulfated polysaccharide from *Arthrobacter fusants* as antiviral and antioxidant, **Al-Azher J. Agriculture Science Sector Res., 9: 15–37.**
- 21- Gaballa, A. S., Barakat, A. S., Tebeb, S. M. and **Asker, M.M.S.** (2011) Synthesis, Characterization and Antimicrobial activity of some Nitrilotriacetic acid–V(III),–Sn(II) and –Sm(III) Complexes. **Bull. Chem. Soc. Ethiop. 25: 61– 71.**
- 22- Ghazy, E.A., Mahmoud, M.G., **Asker, M.M.S.**, Mahmoud, M.N., Abo Elsoud, M.M. and Abdel Samie, M.E. (2011) Cultivation and Detection of Sulfate Reducing Bacteria (SRB) in Sea Water. **J. of American Science 7: 576–583.**
- 23- Mohamed S. F., Fatimah Agili, **Asker, M.M.S**, and Kh. El Shebawy (2011) Characterization of the biosorption of lead with calcium alginate xerogels and immobilized *Turbinaria decurrens*. **Chemical monthly, 142: 225–232**
- 24- Abeer A. Keera, **Asker, M.M.S**; Nadia H. Abd El-Nasser and Kh. El-Shebawy (2011) Production of glucose isomerase from *Streptomyces gedanensis* **Bull. NRC, 136: 153–165.**
- 25- **Asker, M.M.S**, El-Sayed O.H., Gadala, M.A., Sahera F. Mohamed (2011). Production and Purification of α -amylase from *H. sodomense* **BioChemistry: an India, 5(1): 44–51**
- 26- **Asker, M.M.S**, Zeinab I. Khalil and Osama H. El-Sayed (2011) Isolation, Fractionation and Modification of Sulfated Polysaccharides from *Spirulina platensis* and its Antitumor Activity. **BioChemistry: an India, 5(1): 52–61**



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- 27- Shawky T. Bahaa, Manal G. Mahmoud, Eman A. Ghazy, **Asker, M.M.S** and Ghada S. Ibrahim (2011) Enzymatic hydrolysis of rice straw and corn stalks for monosugars production. **J. of Genetic Engineering and Biotech, 9: 59–63.**
- 28- **Asker, M.M.S.** and Ramadan, M.F. (2011). Apricot and pumpkin oils reduce plasma cholesterol and triacylglycerol concentrations in rats fed a high-fat diet. **Grasas y Aceites, 62 (4): 443–452.**
- 29- Akmal S. Gaballa, Said M. Teleb, **Asker, M.M.S.** and Ahmed A. Soliman (2011) Spectroscopic, Thermal Studies and Antimicrobial Activity of Nitrilotriacetates, (NTA)–Ce(III) and –Ce(VI) Complexes. **Asian J. of Chemistry, 23: 5343 – 5348**
- 30- Gaballa A.S., Teleb, S.M., **Asker, M.M.S.**, Yalcin, E. and Seferoglu, Z. (2011) Synthesis, spectroscopic properties and antimicrobial activity of some new 5-phenylazo-6-aminouracil-vanadyl complexes, **J. of Coordination Chemistry, 64: 4225 – 4243**
- 31- Abu Shady, H.M., **Asker, M.M.S**, Gadalla, M. A. and Abd Elnasser, S.M. (2011). Production conditions of exopolysaccharide from *Bacillus megaterium* identified by 16S rRNA gene sequencing. **Egyptian J. of Microbiology, 46: 125 –140**
- 32- Ramadan, M.F., **Asker, M.M.S.** and Tadros, M. (2012). Antiradical and antimicrobial properties of cold-pressed black cumin and cumin oils, **Eur. Food Res. and Technology, 234:833–844**
- 33- Ghada, S. Ibrahim, Manal, G. Mahmoud, **Asker, M.M.S**, and Eman, A. Ghazy (2012). Production and biological evaluation of exopolysaccharide from isolated *Rhodotorula Glutinins*. **Australian J. of Basic and Applied Science, 6: 401–408**
- 34- Abdel-Aziz, M.S. and **Asker, M.M.S.** (2012). Xylanase from *Streptomyces griseoflavus*: purification and characterization. **Bull. NRC, Egypt, 37: 11–26**
- 35- Ibrahim A.A. and **Asker M.M.S.** (2012). Production and characterization of Destruixins from local *Metarhizium anisopliae var. anisopliae*. **Australian J. of Basic and Applied Science, 6: 401–408**
- 36- **Asker, M.M.S**, Sahera F. Mohamed and El-Sayed O.H. (2012) Characterization of Immobilized L-Asparaginase Produced from *Pseudomonas aeruginosa* 50071 by Solid State Fermentation. **Biosciences, Biotechnology Research Asian 9(2): 569— 576**



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- 37- **Asker, M.M.S.** and El Saadany H.M. (2013). Isolation, purification and mapping δ -endotoxin of *Bacillus thuringiensis* subsp. *Kurstaki*. ***Inter. J. of Academic Research Part A*, 5(1): 66-70.**
- 38- **Asker, M.M.S.**, Mohamed, S.F, Mahmoud, M.G. and El Sayed, O.H (2013). Antioxidant and Antitumor Activity of a New Sesquiterpene Isolated from Endophytic fungus *Aspergillus glaucus*, ***Inter.I J. PharmTechm Research*, (5)2: 391—397.**
- 39- Mohamed Shaaban, Hamdi Nasr Amal Z Hassan and **Asker, M.M.S** (2013) Bioactive Secondary Metabolites from Endophytic *Aspergillus fumigatus*: Structural Elucidation and Bioactivity Studies. ***Revista Latinoamericana de Química*, 41(1): 50—60**
- 40- Ramadan, M.F., **Asker, M.M.S.** and Tadros, M. (2013). Lipids profile, antiradical power and antimicrobial properties of *Syzygium aromaticum* oil. ***Grasas y Aceites*, 1467—1465**
- 41- **Asker, M.M.S.**, Manal G. Mahmoud, Khalid El Shebwy and Mohamed S. Abdel-Aziz (2013). Purification and characterization of two thermo-stable protease fractions from *Bacillus megaterium* ***J. of Genetic Engineering and Biotech*, 11(2): 103—109**
- 42- Alaa, A. Gaafar, Zeinab, A. Salama, **Askar, M.M.S.**, Dardiri, M. El-Hariri and Bakry, A. Bakry (2013). *In-vitro* antioxidant and antimicrobial activities of Lignan flax seed extract (*Linum usitatissimum*, L.) ***Inter. J. Pharmaceutical Review and Res.* 23(2)47: 291—297**
- 43- El Sayed, O. H.; Shash, S. M; **Askar, M.M.S** and Hamed, S. R. (2013). Antioxidant Activity of some Molds Extracts isolated from Egyptian Environment. ***J. Biological Chemistry and Environmental Science* 8 (3): 461—478.**
- 44- Samir A. A. Ismial; Rehab F. M. Ali, **Askar M.M.S.** and Wafaa M. Samy (3013) Impact of pre-treatments on the acrylamide formation and organoleptic evolution fried Potato chips, ***American J. of Biochemistry and Biotechnology*, 9 (2): 90—101.**
- 45- Medhat M. Abozid and **Askar M.M.S.** (20013) Chemical composition, antioxidant and antimicrobial activity of the essential oil of the thyme and rosemary ***Inter. J. of Academic Research Part A* 5(3):186—195.**



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- 46- Abeer Y. Ibrahim, Manal, G. Mahmoud and **Askar M.M.S** (2014) Anti-inflammatory and antioxidant activities of polysaccharide from *Adansonia digitata*: an in vitro study. **Inter. J. Pharmaceutical Sciences Review Research, 25(2) 174–182**
- 47- **Askar M.M.S.**, Hala, M. Abu Shady; Mohie M. Soliman; Magdi, A. Gadalla, Salma M. Abd el-nasser (2014) Cloning and expression of a D-alanine-D-alanine ligase gene from *Bacillus megaterium* in *Escherichia coli*. **Inter. J. Pharmaceutical Sciences Review Res., 25(2) 183– 187**
- 48- El-kady E.M., Ibrahim N., **Askar M.M.S**, El-Shebawi Kh., Osman M. and Wahby A.F. (2014). The immunogenicity of partially identified candidates of acellular pertussis vaccines **Inter. J. PharmTechm Research, 6(1): 196–202**
- 49- **Askar, M.M.S**, Swelim M.A., Abbas H.I., Attwa A.I., El Awady M. E. and El Sayed O.H (2014). Screening on the production of bioactive secondary metabolites from *Streptomyces* sp. **J. Biological Chemistry and Environmental Science 9 (1): 423–435.**
- 50- Mahmoud M.G., Ibrahim A.Y., **Askar M.M.S.** and El Sayed O.H. (2014). Therapeutic potential and structural elucidation of a water-soluble polysaccharide of a wild edible mushroom *Agaricus bisporus* against neurodegenerative disease, Alzheimer, **World J. Pharmaceutical Science 2(10): 1136–1145**
- 51- Sadik M.S. and **Askar M.M.S.** (2014). Antioxidant and antitumor activities of Pomegranate (*Punica granatum*) peel extracts, **World J. Pharmaceutical Science 2(10): 1441–1445**
- 52- **Askar M.M.S**, EL Sayed O.H., Mahmoud M.G. and Ramadan M. F. (2014). Chemical structure and antioxidant activity of a new exopolysaccharide produced from *Micrococcus luteus*. **J. of Genetic Engineering and Biotech, 12(2): 212–126**
- 53- Abd El Baky H.H., El Baz F.K., El Baroty G.S., **Asker, M.M.S** and Eman A. Ibrahim (2014). Phospholipids of some marine macroalgae: Identification, antiviral, anticancer and antimicrobial bioactivities **Der Pharma Chemica, 6(5):370-382**



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- 54- Fadel H. M., Mahmoud M.G., **Asker M.M.S** and Lotfy S.N. (2015). Characterization and evaluation of coconut aroma produced by *Trichoderma viride* EMCC-107 in solid state fermentation on sugarcane bagasse. **Electronic J. of Biotechnology 18:5–9**
- 55- El Sayed H.O, El-Sayed A.M., Salem H.M., Mahmoud M. G. **Asker M.M.S**, Mohamed S.S. (2015). Isolation, characterization and biological activities of exopolysaccharide produced by *Bacillus marinus* **Der Pharma Chemica, 7(2):200-208**
- 56- **Asker M.M.S.**, Mahmoud M.G., Ibrahim A.Y. and Mohamed S.S. (2015) Inhibitory effect of exopolysaccharide from *Achromobacter piechaudii* NRC2 against cyclooxygenases and acetylcholinesterase with evaluation of its antioxidant properties and structure elucidation. **Der Pharmacia Lettre, 7 (4):129-141**
- 57- El-Sayed O.H., **Asker M.M.S.**, Shash S.M., Hamed S.R. (2015) Isolation, Structure elucidation and Biological Activity of Di-(2-ethylhexyl) phthalate Produced by *Penicillium janthinellum* 62 **Inter. J. ChemTech Research, 8(1):58-66.**
- 58- **Asker M.M.S.**, Ibrahim A.Y., Mahmoud M.G. and Mohamed S.S. (2015) Production and Characterization of Exopolysaccharide from Novel *Bacillus* sp. M3 and Evaluation on Development Sub-Chronic Aluminum Toxicity Induced Alzheimer's Disease in Male Rats. **American J. of Biochemistry and Biotechnology, 11 (2): 92-103**
- 59- Gaafar A.A., **Asker M.S.**, Salama Z.A., Bagato O., Ali M.A. (1015) *In-vitro*, Antiviral, Antimicrobial and Antioxidant Potential Activity of Tomato pomace. **Inter. J. Pharmaceutical Sciences Review Res., 32(2):262-272**
- 60- El-Shabrawi H.M.; **Asker M.M.S**, Aly U.I.; Ghareeb H.; Gaber A.M.M.; Hanafy M.S.; Liu M.C. (2015). *In vitro* functional analysis of synthetic Cupep-1 and Cupep-2 peptides from phloem sap of Chinese long Cucumber. **Plant Tissue Culture and Biotech, 25(1): 71-85**
- 61- Humaira Naureen, Mohamed Shaaban and **Asker, M.M.S**. (2015). Structural Elucidation and Bioactivity Studies of Secondary Metabolites from Endophytic *Aspergillus niger*. **Indian J. of Applied Research 5 (9): 76-83**



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- 62- Farag, S., **Asker, M.M.S.**, Amr, A., Ibrahim, H. M., El Shafi, A. (2015). Biosynthesis and characterization of bacterial cellulose using agriculture wastes. ***Inter. J. of Chemical and Environmental Engineering* 6(6):391-398**
- 63- Farag, S., Ibrahim, H. M., **Asker, M.M.S.**, Amr, A., El Shafi, A. (2015). Impregnation of silver nanoparticles onto bacterial cellulose: Green synthesis and cytotoxicity. ***Inter. J. ChemTech Research*, 8(12):651-661.**
- 64- Nihal M. Ibrahim, Ebtsam M. El-kady, **Asker M.M.S.** (2016). Categorization of venoms according to bonding properties: An immunological overview. ***Molecular Immunology* 70: 24–33**
- 65- Mona A. M. Ghoneim, Amal I. Hassan, Manal G. Mahmoud, **Asker M.M.S.** (2016). Protective Effect of *Adansonia digitata* against Isoproterenol-Induced Myocardial Injury in Rats. ***Animal Biotechnology*, 27:84–95**
- 66- Amal I. Hassan, Mona A. M. Ghoneim, Manal G. Mahmoud, **Asker M.M.S.** Saher S. Mohamed (2016). Efficacy of polysaccharide from *Alcaligenes xylooxidans* MSA3 administration as protection against γ -radiation in female rats. ***J. of Radiation Research*, 57(2): 189–200**
- 67- Shima R. Hamed, Mostafa M. Abo Elsoud, Manal G. Mahmoud, **Asker M.M.S.** (2016). Isolation, screening and statistical optimizing of L-methioninase production by *Chaetomium globosum*. ***Afr. J. Microbiol. Res.* 16(36): 1513-1523**
- 68- El Sayed O. H., **Asker M.M.S.**, Swelim M.A., Abbas I.H., Attwa A.I., El Awady M.E. (2016). Production of hydroxy marilone C as a bioactive compound from *Streptomyces badius*. ***J. of Genetic Engineering and Biotech*, 14(1):161-168**
- 69- Ghoneim M.A.M., Hassan A.I., Mahmoud M.G. and **Asker M.M.S.** (2016). Effect of polysaccharide from *Bacillus subtilis* sp. on cardiovascular diseases and atherogenic indices in diabetic rats. ***BMC Complementary and Alternative Medicine*16:112**
- 70- Selim M. S., Mohamed S. S., Mahmoud M. G., **Asker M.M.S.**, and El Sayed O. H. (2016). Purification and kinetics of Pectinase production from *Paenibacillus lactis* NRC1 locally isolated from Egyptian mangrove habitat. ***Der Pharma Chemica*, 8(9):150-159**



MOHSEN ASKER.....

- 71- Mohammed M.A., El-Gengaihi S.E., Aboul Enein A.M., Hassan E.M., Ahmed O.K., and **Asker M.M.S.** (2016). Chemical constituents and antimicrobial activity of different *Annona* species cultivated in Egypt. ***J. of Chemical and Pharma. Res.* 8(4):261-271**
- 72- Hanafy M.S. , Matter M.A. , **Asker M.M.S.**, and Rady M.R. (2016). Production of indole alkaloids in hairy root cultures of *Catharanthus roseus* L. and their antimicrobial activity. ***South African J. of Botany* 105:9-18.**
- 73- Gaafar A.A., Ibrahim E. A., **Asker M.M.S.**, Salama Z.A. (2016). Characterization of polyphenols, polysaccharides by HPLC and their antioxidant, antimicrobial and antiinflammatory activities of defatted moringa (*Moringa oleifera* L.) Meal Extract ***Inter. J. of Pharma and Clinical Res.* 8(6):565-573.**
- 74- Farag S., **Asker M.M.S.**, Mahmoud M.G., Ibrahim H, and Amr A (2016). Comparative study for bacterial cellulose production using Egyptian *Achromobacter* sp. ***Res. J. of Pharma, Biological and Chemical Sci.* 7(6): 954**
- 75- Abdel-Aziz SM, **Asker M.M.S.**, Keera AA, Mahmoud MG (2016). Microbial food spoilage: control strategies for shelf life extension. Chapter in: "Microbes in Food and Health" Springer, Cham. pp. 239-264
- 76- Abdelnasser S.M, Yahya S.M.M, Mohamed W.F, **Asker M.M.S**, Hala M Abu Shady, Mahmoud M.G, and Gadallah M.A (2017). Antitumor Exopolysaccharides Derived from Novel Marine Bacillus: Isolation, Characterization Aspect and Biological Activity. ***Asian Pacific J. Cancer Prev.,* 18 (7), 1847-1854**
- 77- El-Newary S.A., Ibrahim A.Y., **Asker M.S.**, Mahmoud M.G., and El Awady M.E. (2017). Production, characterization and biological activities of acidic exopolysaccharide from marine *Bacillus amyloliquefaciens* 3MS 2017. ***Asian Pacific J. of Tropical Medicine* 10(7): 652–662**



MOHSEN ASKER.....

- 78- El-Newary S.A, Sulieman A.M, **Asker M.S.**, Mahmoud M.G, and El-Attar S.R (2017). Evaluation Hypolipidemic and Antioxidant Characters of *Cordia dichotoma* Fruits Mucilage in High Fat Diet-induced Hyperlipidemic Rats. ***Der Pharma Chemica*, 9(6):20-29**
- 79- El Awady E M.; Selim S. M.; Abd El-Razek S. A. and **Asker M.S.** (2017). Production, Purification and Characterization of L-Methioninase from *Streptomyces Variabilis* 3MA2016. ***Res. J. of Pharma, Biological and Chemical Sci.* 8(3): 906-921**
- 80- Hanafy MS., **Asker M.S.** El-Shabrawi H and Matter MA (2018), Agrobacterium rhizogenes-mediated genetic transformation in *Cichorium* spp.: hairy root production, inulin and total phenolic compounds analysis. ***The Journal of Horticultural Science and Biotechnology* 93(6): 605-613**
- 81- Fadel H. H.M. , S. N. Lotfy, **Asker M.S.**, Mahmoud M. G., Al-Okbi S. Y. (2018). Nutty-like flavor production by *Corynebacterium glutamicum* 1220T from enzymatic soybean hydrolysate. Effect of encapsulation and storage on the nutty flavoring quality ***Journal of Advanced Research* 10: 31–38**
- 82- **Asker M.S.**, El Sayed O.H., Mahmoud M.G., Yahya S.M., Mohamed S.S., Selim M.S., El Awady M.S., Abdelnasser S.M.; Abo Elsoud M.M. (2018). Production of exopolysaccharides from novel marine bacteria and anticancer activity against hepatocellular carcinoma cells (HepG2). ***Bulletin of the National Research Centre* 42:30**
- 83- Selim M. S., Mohamed S.S., **Asker M.S.**, Salama A.A., Abdallah H.M., Yassen N.N. (2018). Production and characterization of exopolysaccharide from marine *Bacillus* sp. MSHN2016 with studying its effect on isoniazid/rifampicin-induced hepatic and renal toxicities in rats. ***Journal of Applied Pharmaceutical Science* 8(08): 001-011**
- 84- Salama Z.A., Aboul-Enein A.M., Gaafar A.A., Abou-Ellella F., Aly H.F., **Asker M.S.** and Ahmed H.A. (2018). Active Constituents of Kiwi (*Actinidia Deliciosa* Planch) Peels and Their Biological Activities as Antioxidant, Antimicrobial and Anticancer. ***Research Journal of Chemistry and Environment* 22 (9): 52-58**



MOHSEN ASKER.....

- 85- Ibrahim G.S., Abo Elsoud M.M.; and **Asker M.S.** (2018). Exopolysaccharides production and optimization by *halomonas venusta* using response surface method. **Bioscience Research, 15(3): 2756-2769**
- 86- Elmansy E A, **Asker M.S.**, El-Kady E M, Hassanein S M, and Fawkia M (2018). Production and optimization of α -amylase from thermo-halophilic bacteria isolated from different local marine environments **Bulletin of the National Research Centre 42:31**
- 88- Abdelhamid S A, Hussein A A, **Asker M.S.**, El Sayed O H, and Mohamed S S (2019). Optimization of culture conditions for biodiesel production from Egyptian isolate *Penicillium commune* NRC2016 **Bulletin of the National Research Centre 43:15**
- 89- Yahya SMM, Abdelnasser SM, Hamed AR, El Sayed OH, and **Asker M.S.** (2019). Newly isolated marine bacterial exopolysaccharides enhance antitumor activity in HepG2 cells via affecting key apoptotic factors and activating toll like receptors **Molecular biology reports (In press)**
- 90- Mahmoud M.G., EM El Kady, **Asker M.S.** (2019). Chitin, Chitosan and Glucan, Properties and Applications. **World J Agri & Soil Sci. 3(1): 1-19**
- 91- Asker M.S., EM El Kady, Mahmoud M.G., (2019). New Trends of the Polysaccharides as a Drug. **World J Agri & Soil Sci. 3(5): 1-22**
- 92- Farag S; Ibrahim HM.; Amr A; **Asker M.S.**; El-shafie A (2019). Preparation and characterization of ion exchanger based on bacterial cellulose for heavy metal cation removal. **Egyptian Journal of Chemistry (In press)**
- 93- Gaafar A.A., **Asker M.S.**; Ali M.A. and Salama Z.A. (2019). Functional Components of Grape (*Vitis vinifera*) Pomace: Their Effectiveness as Antioxidant, Antimicrobial, and Antiviral Properties. **Jordan Journal of Biological Sciences (In press)**