

## 1. Curriculum Vitae Dr. Elsayed Ahmed Elsayed

<b>Name</b>	Elsayed Ahmed Elsayed Ahmed	
<b>Title</b>	Dr. rer. nat.	
<b>Date of Birth</b>	30.08.1972	
<b>Place of Birth</b>	Cairo, Egypt	
<b>Nationality</b>	Egyptian	
<b>E-Mail</b>	<a href="mailto:eaelsayed@ksu.edu.sa">eaelsayed@ksu.edu.sa</a> , <a href="mailto:elsayed@peq.coppe.ufrj.br">elsayed@peq.coppe.ufrj.br</a> , <a href="mailto:elsayed_ahmed@gmx.de">elsayed_ahmed@gmx.de</a>	
<b>Position</b>	Associate Professor, Bioproducts Research Chair, College of Science, King Saud University, Riyadh, Saudi Arabia.	
<b>Linguistics</b>	<b>Arabic (Mother language)</b> German (Fluent) English (Fluent) Portuguese (Beginner)	
<b>Brief Chronology of Employment</b>		
<b>Nov. 2016 – present</b>	Associate Professor, Bioproducts Research Chair, College of Science, King Saud University, Riyadh, Saudi Arabia.	
<b>Dec. 2009 – Nov. 2016</b>	Assistant Professor, Bioproducts Research Chair, College of Science, King Saud University, Riyadh, Saudi Arabia.	
<b>Aug. 2015-presnet</b>	Assistant Professor in Natural & Microbial Products Dept., National Research Centre, Cairo, Egypt.	
<b>Aug. 2008 – Dec. 2009</b>	Associate Professor, Chemical Engineering Program, COPPE, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.	
<b>Nov. 2006 – Aug. 2008</b>	Researcher in Natural & Microbial Products Dept., National Research Centre, Cairo, Egypt.	
<b>Nov. 2005 – Nov. 2006</b>	Post Doctor Fellowship, German Research Centre for Biotechnology (GBF), Braunschweig, Germany,.	
<b>Apr. 2002 – Sep. 2005</b>	Ph.D. Student in the Cell Culture Technology Department, German Research Centre for Biotechnology (GBF), Braunschweig, Germany, funded by the German Academic Exchange Service (DAAD) under the supervision of the late Prof. Dr. W.-D. Deckwer and Prof. Dr. R. Wagner.	

**Nov. 1999 – April 2002** Assistant Researcher in Natural & Microbial Products Dept., National Research Centre, Cairo, Egypt.

**March 1996 – Nov. 1999** Researcher Assistant in Natural & Microbial Products Dept., National Research Centre, Cairo, Egypt.

**Nov. 1994 – March 1996** Master Scholarship student in Natural & Microbial Products Dept., National Research Centre, Cairo, Egypt.

### **Education**

**2002 – 2005** Ph.D., Technical University of Braunschweig, Braunschweig, Germany. Thesis title “Application of Hydrocyclone for Cell Separation in Mammalian Cell Perfusion Culture”.

**1996 – 1999** M.Sc. Biochemistry, Faculty of Science, Cairo University, Cairo, Egypt. Thesis title “Microbiological and Biochemical Studies on the Production of Natamycin”.

**1995 – 1996** M.Sc. Biochemistry, Part I, Faculty of Science, Cairo University, Cairo, Egypt.

**1990 – 1994** B.Sc. Microbiology and Chemistry, Faculty of Science, Ain-Shams University, Cairo, Egypt.

### **Scientific Experiences**

- Medium optimization for production of monoclonal antibodies in spinner and bioreactor cultivations.
- Process development for the batch, fed-batch and perfusion cultivation of mammalian cells in bioreactors.
- Cultivation of mammalian cells for the production of biopharmaceuticals in perfusion bioreactors (from 1L to 300 L bioreactors).
- Cultivation of mammalian cells in perfusion bioreactors under different separation systems, i.e. Hydrocyclone, SpinFilter, Ultrasonic separation, membrane separation.
- Fermentative production and process development for antibiotics (Oxytetracycline, Natamycin) from microorganisms in shake-flask level and stirred-tank bioreactors.
- Production of ethanol by mixed culture fermentations as well as free and immobilized cells from agricultural waste materials.
- Production of glutamic acid and lysine using mixed culture and immobilized bacterial cells.
- Removal of heavy metals contaminating industrial wastewaters using microbiological and agricultural biotechnology.

### **Prizes**

- King Saud University Award for Scientific Excellence (2017). Award for best translated book in the scientific and engineering disciplines, book title “Bioprocessing Technologies in Biorefinery for the Sustainable Production of Fuels, Chemicals and Polymers”. Published by King Saud University Publisher.
- King Abdulla Bin Abd El Aziz International Award for Translation. (2016). For the translation of the book: Industrial Biotechnology: Sustainable growth and economic success, Published by King Saud University Publisher.

- Innovation Award, 4th International Conference on Biotechnology for the Wellness Industry (ICBWI 2012). June. 20th–21st. Kuala Lumpur, Malaysia.
- Best Poster presentation Award, 4th International Conference on Biotechnology for the Wellness Industry (ICBWI 2012). June. 20th–21st. Kuala Lumpur, Malaysia.
- Award for Best Scientific Presentation, presented from the Union of Arabic Councils for Scientific Research, Industrial Biotechnology Workshop: Present and future aspects. July 14th – 15th. National Research Centre, Cairo, Egypt.
- Innovation Award, 3rd International Conference on Biotechnology for the Wellness Industry (ICBWI 2010). Oct. 8th–9th. Kuala Lumpur, Malaysia

### **Scientific Publications**

#### **Patent**

Wagner R, **Elsayed EA**. **2006**. Method, apparatus and system for separating eucaryotic or prokaryotic cells or other particularly biological material from a suspension. World Intellectual Property Organization. European Patent, PCT/EP 04/004976, WO 2004/099362 A2, US, Canada Patent Application 2006.

#### **Books**

**Elsayed EA**, El Enshasy HA. **2017**. Bioprocessing Technologies in Biorefinery for Sustainable Production of Fuels, Chemicals and Polymers (Arabic Translation). King Saud University Publishing House. ISBN 978-603-507-504-6.

**Elsayed EA**. **2014**. Industrial Biotechnology: Sustainable growth and economic success (Arabic Translation). King Saud University Publishing House. ISBN 978-603-507-261-8.

#### **Book Chapters**

El Enshasy HA, Malik K, Malek RA, Othman NZ, **Elsayed EA** and Wadaan M. **2016**. Anaerobic Probiotics: The Key Microbes for Human Health. *Adv. Biochem. Eng./Biotechnol.*, 165: 397-432, DOI: 10.1007/10\_2015\_5008.

El-Enshasy HA, Othman NZ, **Elsayed EA**, Sarmidi MR, Wadaan MA and Aziz R. **2016**. Functional Enzymes for Animal Feed Applications. In: *The Handbook of Microbial Bioresources*. (eds V.K Gupta et al.), CABI publisher, ISSN 9781780645216.

**Elsayed EA**, Ramalho LAG, Castilho LR and Medronho RA. **2012**. Feed flow pulsation in the separation of CHO cells in hydrocyclones: Effects of pressure drop and pumphead type on separation efficiency and cell viability. In: Jenkins N, Barron N, Alves P (Eds.), *Cellular Solutions for Clinical Challenges*. Dordrecht, Springer, Springer, ISBN 978-94-007-0883-9, p. 341-344.

Schröder B, **Elsayed EA**, Olowonia J and Wagner R. **2010**. Advantages of hydrodynamic cell separation in industrial cell culture processes. In: Noll T (Ed.), *Cells and Culture*. Dordrecht, Springer, ISBN 978-90-481-3419-9, Vol. 4(6): 657-664.

**Elsayed EA**, Piehl GW, Nothnagel J, Medronho RA, Deckwer WD and Wagner R. **2005**. Use of hydrocyclone as an efficient tool for cell retention in perfusion cultures. In: Gòdia F, Fussenegger M (Eds.) *Animal Cell Technology Meets Genomics*. Dordrecht, Springer, p. 679-682.

## Publications

- Mohamed SF, Hosni HM, Abdel Latif NA, Amr AE, **Elsayed EA**. 2017. Synthesis and antimicrobial activities of some novel substituted dihydropyrido[2,3-g]quinoline candidates. *J. Comput. Theor. Nanosci.* 14, 5378–5385.
- Wang D, Wang C, Gui P, Liu H, Khalaf SMH, **Elsayed EA**, Wadaan MA, Hozzein WN, Zhu W. 2017. Identification, bioactivity, and productivity of actinomycins from the marine-derived *Streptomyces heliomycini*. *Frontiers in Microbiology*, 8, Art.No. 1147.
- El-Enshasy HA, **Elsayed EA**. 2017. Kinetics of cell growth and invertase production by the biotherapeutic yeast, *Saccharomyces boulardii*. *J. Sci. Ind. Res.*, 76(8): 477-484.
- M Soltani, R Abd Malek, I Ware, S Ramli, **Elsayed EA**, R Aziz, HA El-Enshasy. 2017. Optimization of cordycepin extraction from *Cordyceps militaris* fermentation broth. *J. Sci. Ind. Res.*, 76: 355-486.
- Elsayed EA**, Farooq M, Dailin D, El-Enshasy HA, Othman NZ, Malek R, Danial E, Wadaan M. 2017. In vitro and in vivo biological screening of kefiran polysaccharide produced by *Lactobacillus kefiranofaciens*. *Biomed. Res.*, 28(2): 594-600.
- Abd El-Galil Amr, Mohamed Abdalla, Mohamed Al-Omar, **Elsayed EA**. 2017. Anti-ovarian and anti-breast cancers with dual topoisomerase ii/braf600e inhibitors activities of some substituted indole derivatives. *Biomed. Res.*, 28(1): 75-80.
- Mohamed S, Soliman H, AMR AE, **Elsayed EA**, Mahmoud KH. 2016. Anticancer Activities of Some New 2-(3-Cyano-7,8- Dihydro-4-(5-Methyl-Furan-2-Yl)Pyrano[4,3-B]Pyridin-1(5H)-Yl) Acetohydrazide Derivatives. *Lat. Am. J. Pharm.*, 35(10): 2149-2158.
- Dailin DJ, **Elsayed EA**, Othman NZ, Malek R, Phin HS, Aziz R, Wadaan M, El Enshasy HA. 2016. Bioprocess development for kefiran production by *Lactobacillus kefiranofaciens* in semi industrial scale bioreactor. *Saudi J. Biol. Sci.*, 23: 495-502.
- Elsayed EA**, Omar HG, Galil SA, El-Enshasy HA. 2016. Optimization of fed-batch cultivation strategy for extracellular  $\alpha$ -amylase production by *Bacillus amyloliquefaciens* in submerged culture. *J. Sci. Ind. Res.*, 75: 480-486.
- Boumehira AZ, El-Enshasy HA, Hacene H, **Elsayed EA**, Aziz R, and Park EY. 2016. Recent progress on the development of antibiotics from the genus *Micromonospora*. *Biotechnol. Bioprocess Eng.*, 21(2): 199-223.
- Elsayed EA**, Sharaf-Eldin MA, El-Enshasy HA and Wadaan M. 2016. *In vitro* assessment of anticancer properties of *Moringa peregrina* essential seed oil on different cell lines. *Pakistan J. Zool.*, 48(3): 853-859.
- Then C, Wai OK, **Elsayed EA**, Mustapha WZW, Othman NZ, Aziz R, Wadaan M and El Enshasy HA. 2016. Comparison between Classical and Statistical Medium Optimization Approaches for High Cell Mass Production of *Azotobacter Vinelandii*. *J. Sci. Ind. Res.*, 75: 231-238.
- Al-Salahi R, **Elsayed EA**, El Dib RA, Wadaan M, Ezzeldin E and Marzouk M. 2016. Synthesis, characterization and cytotoxicity evaluation of 5-hydrazono-[1,2,4]triazolo[1,5-a]quinazolines (Part I). *Lat. Am. J. Pharm.* 35(1): 58-65.
- Al-Salahi R, **Elsayed EA**, El Dib RA, Wadaan M, Ezzeldin E and Marzouk M. 2016. Cytotoxicity of new 5-hydrazono-[1,2,4]triazolo[1,5-a]quinazolines (Part II). *Lat. Am. J. Pharm.* 35(1): 66-73.
- Farooq M, Taha NA, Butorac RR, Evans DA, Elzatahry AA, **Elsayed EA**, Wadaan MAM, Al-Deyab SS and Cowley AH. 2015. Biological screening of newly synthesized BIAN N-heterocyclic gold carbene complexes in Zebrafish embryos. *Int. J. Molec. Sci.*, 16: 24718-24731.

- Elsayed EA**, Omar HG and El-Enshasy HA. **2015**. Development of fed-batch cultivation strategy for efficient oxytetracycline production by *Streptomyces rimosus* at semi-industrial scale. *Braz. Arch. Biol. Biotechnol.*, 58(5): 676-685.
- Farid MA, Kamel Z, **Elsayed EA**, El-Deen AMN. **2015**. Optimization of medium composition and cultivation parameters for fructosyltransferase production by *Penicillium aurantiogriseum* AUMC 5605. *J. Appl. Biol. Chem.*, 58(3): 209-218.
- Elsayed EA**, Sharaf-Eldin MA, Wadaan M. **2015**. *In vitro* evaluation of cytotoxic activities of essential oil from *Moringa oleifera* seeds on HeLa, HepG2, MCF-7, CACO-2 and L929 cell lines. *Asian Pacific J. Cancer Prevention*, 16(11): 4671-4675.
- Elsayed EA**, Omar H and El Enshasy HA. **2015**. Enhanced production of Rifamycins B and SV by medium supplementation with Vermiculite. *J. Chem. Pharm. Res.*, 7(4): 1089-1094.
- El-Enshasy HA, Dailin D, **Elsayed EA**, Othman NZ, Malek RA, Ramli S, Sarmidi M, Aziz R and Wadaan M. **2015**. Development of cultivation medium for high yield kefir production by *Lactobacillus kefirifaciens*. *Int. J. Pharm. Pharm. Sci.*, 7(3): 159-163.
- Elsayed EA**, Othman NZ, Malek R, Tang T and El-Enshasy HA. **2014**. Improvement of cell mass production of *Lactobacillus delbrueckii* sp. *bulgaricus* WICC-B-02: A newly isolated probiotic strain from mother's milk. *J. of Appl. Pharm. Sci.*, 4(11), 008-014.
- Elsayed EA**, El Enshasy H, Wadaan MA and Aziz R. **2014**. Mushrooms: A potential natural source of anti-inflammatory compounds for medical applications. *Mediators of Inflammation*, Vol. 2014, doi: dx.doi.org/10.1155/2014/805841.
- Elsayed EA**, Othman NZ, Malek R, Awad HM, Wu K, Aziz R, Wadaan MA and El-Enshasy HA. **2014**. Bioprocess development for high cell mass and endospore production by *Bacillus thuringiensis* var *israelensis* in semi-industrial scale. *J. Pure & Appl. Microbiol.* 8(4): 2773-2783.
- Othman NZ, **Elsayed EA**, Malek RA, Ramli S, Masri HJ, Sarmidi MR, Aziz R, Wadaan MA, Hatti-Kaul R and El-Enshasy HA. **2014**. Aeration rate Effect on the growth kinetics, phytase production and plasmid stability of recombinant *Escherichia coli* BL21 (DE3). *J. Pure & Appl. Microbiol.* 8(4): 2721-2728.
- Elzatahry AA, El-Din SA, **Elsayed EA**, Aldhayan DM, Wadaan MA, Al-Enizi AM and Al-Deyab SS. **2014**. Au/Ag core-shell/zeolite nanocomposites with antimicrobial activity. *Sci. Adv. Mat.*, 6(7): 1531-1534.
- Elsayed EA**, Hamed A. El-Serehy, Walaa H. Salama and Al-Misned F. **2014**. Evaluation of the cytotoxic and antiviral activities of partially purified *Naja haje haje* venom. *J. Pure & Appl. Microbiol.* 8(1): 143-147.
- El-Faham A., Elzatahry A., Al-Othman1 Z., **Elsayed EA**. **2014**. Facile method for the synthesis of silver nanoparticles using 3-hydrazino-isatin derivatives in aqueous methanol and their antibacterial activity. *Int. J. Nanomed.*, 9: 1167-1174.
- Omar H, **Elsayed EA**, El-Enshasy HA, Aziz R and Wadaan MA. **2014**. Optimization of tetracycline production by submerged cultivation: Effect of aeration and agitation on antibiotic production. *J. Pure & Appl. Microbiol.* 8: 121-128.
- Elsayed EA**, Farid MA and El-Enshasy HA. **2013**. Improvement in natamycin production by *Streptomyces natalensis* with the addition of short-chain carboxylic acids. *Process Biochemistry*, 48(12): 1831-1838.
- Elsayed EA**, Abou-Shleib H, Omar H, El-Demellawy M, Shahin H, Wadaan MA and El-Enshasy HA. **2013**. Production of monoclonal antibody, Anti-CD3 by hybridoma cells cultivated in basket spinner under free and immobilized conditions. *BMC Proceedings* 2013, 7(Suppl 6): P57 doi:10.1186/1753-6561-6-S6-P57.

- El-Enshasy H, **Elsayed EA**, Aziz R and Wadaan MA. **2013**. Mushrooms and truffles: Historical biofactories for complementary medicine in Africa and in the Middle East. Evidence-Based Complementary and Alternative Medicine. , Vol. 2013, doi: dx.doi.org/10.1155/2013/620451.
- Farooq M, Hozzein WH, **Elsayed EA**, Taha N and Wadaan MA. **2013**. Identification of histone deacetylase 1 protein complexes in liver cancer cells. Asian Pacific J. Cancer Preven 14: 915-921.
- Elmarzugi N, El-Enshasy H, **Elsayed EA**, Taleb A, Keleb E, Naji S, Elrmithi O and Othman NZ. **2013**. Production of  $\alpha$ -amylase using new strain of *Bacillus polymyxa* isolated from sweet potato. IOSR J Pharm Biol Sci 5:73-79.
- Elzatahry AA, Al-Enizi AM, **Elsayed EA**, Butorac RR, Al-Deyab SS, Wadaan MAM and Cowley AH. **2012**. Nanofiber composites containing N-heterocyclic carbene complexes with antimicrobial activity. Inter J Nanomed 7: 2829-2832.
- Elsayed EA** and Wagner R. **2011**. Application of hydrocyclones for continuous cultivation of SP-2/0 cells in perfusion bioreactors. Effect of hydrocyclone operating pressure. BMC Proceeding, 5(Suppl) P65.
- Nadia N, Nehad ZA, **Elsayed EA**, Essam MA, Hanan MA. **2010**. Optimization of lipase synthesis by *Mucor racemosus* – Production in a triple impeller bioreactor. Malaysian J Microbiol 6(1): 7-15.
- El-Enshasy HA, Abdeen A, Abdeen S, **Elsayed EA**, EL Demellawy M and EL Shereef AA. **2009**. Serum concentration effects on the kinetics and metabolism of HeLa-S3 cell growth and cell adaptability for successful proliferation in serum free medium. World Appl Sci J 6(5): 608-615.
- Elsayed EA**, Medronho RA, Wagner R and Deckwer WD. **2006**. Use of hydrocyclone for mammalian cell retention. I. Separation efficiency and cell viability. Eng Life Sci 6(4): 347-354.
- Wagner R, **Elsayed EA** and Schröder B. **2006**. Die Fliehkraft nutzen. Hydrodynamische Zellseparation als Perfusionssystem für industrielle Produktionsprozesse. BioTec 5-6: 38-39.
- Farid MA, El-Enshasy HA, El-Diwany AI and **Elsayed EA**. **2000**. Optimization of the cultivation medium for natamycin production by *Streptomyces natalensis*. J Basic Microbiol 40(3): 157-166.
- El-Enshasy HA, Farid MA and **Elsayed EA**. **2000**. Influence of inoculum type and cultivation conditions on natamycin production by *Streptomyces natalensis*. J Basic Microbiol 40(6): 389-398.

### Conferences, Lectures and Posters

- Elsayed EA**, Farid MA, El-Enshasy HA (**2017**). Effect of different short-chain carboxylic acids on the kinetics of growth and production of natamycin by *Streptomyces natalensis*. 2017 Annual Meeting of the American Institute of Chemical Engineering (AIChE 2017). Oct. 29<sup>th</sup>-Nov. 3<sup>rd</sup>, Minneapolis, USA.
- Elsayed EA**, Sharaf-Eldin MA, Wadaan MA (**2015**). *In vitro* evaluation of *Moringa oleifera* and *M. peregrina* seed oil cytotoxicities. First International Symposium on Moringa, 6<sup>th</sup> National Moringa Congress. Nov. 15<sup>th</sup>-18<sup>th</sup>, Manila, Philippines.
- Elsayed EA**. (**2015**). Perfusion Cultivation Processes for Monoclonal Antibody Production in Animal Cell Culture Technology: Cell Separation. 8<sup>th</sup> Annual World Congress of Industrial Biotechnology (IBIO-2015). April 25<sup>th</sup>-28<sup>th</sup>, Nanjing, China
- Elsayed EA**, Azza Noor El-Deen, Mohamed A. Farid, Mohamed A. Wadaan. Fructooligosaccharide Prebiotics: Optimization of Different Cultivation Parameters on their Microbial Production. (**2014**). 5<sup>th</sup> International Conference on Biotechnology for the Wellness Industry (ICBWI 2014). June. 10<sup>th</sup> – 11<sup>th</sup>. Kuala Lumpur, Malaysia.
- Elsayed EA**, Hoda Omar, Hasnaa R Shahin H, Hamida Abou-Shleib H, Maha El-Demellawy, Mohammad Wadaan, Hesham A El-Enshasy. Production of monoclonal antibody, Anti-CD3 by hybridoma cells

- cultivated in Basket Spinner under free and immobilized conditions. (2013). 23<sup>rd</sup> European Society for Animal Cell Technology Meeting, Lille, France, 26<sup>th</sup> – 28<sup>th</sup> June.
- Elsayed E.A.**, Alzatarhry A., Alinzi A., Butorac R.R., Al-Deyab S., Cowley A.H., Wadaan M.A Potential of N-heterocyclic Carbene Nanofiber Composites With Antimicrobial Activity for Wound Dressing Applications. (2013). International Conference on Biotechnology and Nanobiotechnology, Rio de Janeiro, Brazil, 14<sup>th</sup>-15<sup>th</sup> March.
- Elsayed EA**, Wadaan MA. Hydrocyclones: A New Cell Separation Device for Mammalian Cell Perfusion Bioreactors. (2012). 4<sup>th</sup> International Conference on Biotechnology for the Wellness Industry (ICBWI 2012). June. 20<sup>th</sup> – 21<sup>st</sup>. Kuala Lumpur, Malaysia.
- Elsayed EA**. Hydrocyclones: A New Cell Separation Device for Mammalian Cell Perfusion Bioreactors. (2012). 4<sup>th</sup> International Conference on Biotechnology for the Wellness Industry (ICBWI 2012). June. 20<sup>th</sup> – 21<sup>st</sup>. Kuala Lumpur, Malaysia.
- Wael Hozzein, **Elsayed EA**, Mohammad Wadaan. Anticancer and Antimicrobial Activities of Secondary Metabolites Produced by Newly Isolated Actinomycete Strains from Saudi Desert Habitats (2012). 4<sup>th</sup> International Conference on Biotechnology for the Wellness Industry (ICBWI 2012). June. 20<sup>th</sup> – 21<sup>st</sup>. Kuala Lumpur, Malaysia.
- Elsayed E.A.**, Alinzi A., Alzatarhry A., Al-Deyab S., Wadaan M.A. Nanocomposite silver nanofibers prepared by a combination of microwave-electrospinning technique for wound dressing applications. (2012). 1<sup>st</sup> International Conference on Emerging Advanced Nanomaterials, Brisbane, Australia, 22<sup>nd</sup> –25<sup>th</sup> Oct.
- Salah El-Din T.A., Alzatarhry A., **Elsayed E.A.**, Aldahyan D.M., Alinzi A., Wadaan M.A. Au/Ag core shell-zeolite nanocomposites with antimicrobial activity (2012). 1<sup>st</sup> International Conference on Emerging Advanced Nanomaterials, Brisbane, Australia, 22<sup>nd</sup> –25<sup>th</sup> Oct.
- Elsayed EA**, Wagner R. Application of Hydrocyclones for Continuous Cultivation of SP-2/0 Cells in Perfusion Bioreactors. (2011). Effect of Hydrocyclone Operating Pressure. 22<sup>nd</sup> European Society for Animal Cell Technology Meeting, May 15-19, Vienna, Austria.
- Elsayed EA**, Hozzein W.N., Wadaan M.A., Elnakady Y.A. (2011). Anticancer and antimicrobial activity of secondary metabolites from newly isolated actinomycete strains from Saudi desert habitats. 26<sup>th</sup> Saudi Biological Society Conference, May, 10<sup>th</sup> – 12<sup>th</sup>, Taif, Kingdom of Saudi Arabia.
- Hozzein W.N., **Elsayed EA**, Wadaan M.A., Elnakady Y.A. (2011). Generic diversity of some actinomycetes isolated form from the desert habitats in the eastern province of Saudi Arabia for drug discovery. 26<sup>th</sup> Saudi Biological Society Conference, May, 10<sup>th</sup> – 12<sup>th</sup>, Taif, Kingdom of Saudi Arabia.
- Abou-Shleib H., Omar H., El-Demellawy M., **Elsayed E.A.**, Shahin, H, El-Enshasy H. (2010). Efficient monoclonal antibody production (Anti-CD3) by hybridoma cells in basket spinner. 3<sup>rd</sup> International Conference on Biotechnology for the Wellness Industry (ICBWI 2010). Oct. 8<sup>th</sup> – 9<sup>th</sup>. Kuala Lumpur, Malaysia.
- Abdalla A. El-Shereef, **Elsayed E.A.**, Ahmed M. Abdeen, Sherif H. Abdeen, Maha El-Demellawy, Hesham A. El-Enshasy. (2010). Comparative morphological studies of HeLa-S3 cells grown in serum-containing and serum-free medium. Industrial Biotechnology Workshop: Present and future aspects. July 14<sup>th</sup> – 15<sup>th</sup>. National Research Centre, Cairo, Egypt.
- Abdalla A. El-Shereef, **Elsayed E.A.**, Sherif H. Abdeen, Maha El-Demellawy, Hesham A. El-Enshasy. (2010). Adaptaion of monolayer HeLa S3 cells to suspension cultivation on serum free medium. Biovision Alexandria 2010. New Life Sciences: Future Prospects, April 11-15, Alexandria, Egypt.
- Elsayed E.A.**, Azza M. Noor El-Deen, Mohamed A. Farid. (2010). Production of Fructooligosaccharide Prebiotics: Effect of Cultivation Parameters on Fructosyltransferase Production. Industrial Biotechnology Workshop: Present and future aspects. July 14<sup>th</sup> – 15<sup>th</sup>. National Research Centre, Cairo, Egypt.
- Elsayed EA**. (2009). Removal of heavy metals from contaminated wastewater by agricultural wastes: An affordable technology for developing countries. Water, Wastewater and the Environment Urgent Issues for Sustainability. Alumni Expert Seminar, Oct. 25<sup>th</sup> – Nov. 3<sup>rd</sup>. Braunschweig, Germany.
- Patricia B. Di Vitta, Ana C.Martins, Solange K. Sakata, Karina M. Yoshimoto, **Elsayed EA**. (2009). Removal of Heavy Metals from Contaminated Wastewaters by Agricultural Waste Residues: An Affordable Technology.

- 4<sup>th</sup> Brazilian Congress of Science and Technology in Waste and Sustainable Development. ICTR 2009. Sep. 11-13, São Paulo, Brazil.
- Elsayed EA, Leonadro AG Ramalho, Leda R. Castilho, Ricardo A. Medronho. 2009. Feed flow pulsation in the separation of CHO cells in hydrocyclones: Effects of pressure drop and pumphead type on separation efficiency and cell viability. 21<sup>th</sup> European Society for Animal Cell Technology Meeting, Cells and Culture. June 7-10, Dublin, Ireland.
- Leonadro AG Ramalho, **Elsayed EA**, Priscila M Sousa, Leda R. Castilho, Ricardo A. Medronho. (2009). Influence of pump pulsation on animal cell separation using hydrocyclones. National Congress of Chemical Engineering Students. CONEEQ 2009. Jan. 25-31, Florianopolis, Brazil.
- Leonadro AG Ramalho, **Elsayed EA**, Leda R. Castilho, Ricardo A. Medronho. (2008). Effect of operating pressure and feed flow pulsation on cell separation efficiency of hydrocyclones. 21<sup>st</sup> Annual and International Meeting of the Japanese Association for Animal Cell Technology. Nov. 24-27, Fukuoka, Japan.
- Hesham AE El-Enshasy, **Elsayed EA**, Maha El-Demellawy, Abdallah E. El-Shereef. (2008). Successive sequential adaptation of HeLa S3 cells to serum free medium. 1<sup>st</sup> International Conference on Biotechnology for the Wellness Industry. Aug. 5-6, Kuala Lumpur, Malaysia.
- Schröder B, **Elsayed EA**, Olowonia J, Wagner R. (2007). Advantages of hydrodynamic cell separation in industrial cell culture processes. 20<sup>th</sup> European Society for Animal Cell Technology Meeting, Cells and Culture. June 17-20, Dresden, Germany.
- Elsayed EA**, Schröder B, Wagner R. (2006). Hydrodynamic cell separation as a perfusion system for industrial manufacturing processes. ESBES 6, 6<sup>th</sup> European Symposium on Biochemical Engineering Science. Aug. 27-30, Salzburg, Austria.
- Schröder B, **Elsayed EA**, Wagner R. (2006). The hydrocyclone, a hydrodynamic-driven cell retention system for large-scale continuous cell cultivation. BioLOGIC Europe 2006. Working Session 2, Clinical trial issues: Scale-up, purification and extraction. June 19-22, Amsterdam, The Netherlands.
- El-Enshasy HA, Farid MA, El-Diwany AI, **Elsayed EA**. (2004). Development of new cultivation strategy to improve the production of natamycin and to minimize the risk of antibiotic degradation during submerged cultivation of *Streptomyces natalensis*. World Conference on Magic Bullets celebrating Paul Ehrlich's 150<sup>th</sup> Birthday. Session 2, Antiinfectives – new and known non-synthetic compounds. Sept. 9-11 Nürnberg, Germany.
- Elsayed EA**, Piehl GW, Nothnagel J, Medronho RA, Deckwer WD, Wagner R. (2003). Use of hydrocyclone as an efficient tool for cell retention in perfusion cultures. 14<sup>th</sup> National Fermentation Symposium (SINAFERM 2003). Aug. 5-8, Florianopolis, Brazil.
- Elsayed EA**, Piehl GW, Nothnagel J, Medronho RA, Deckwer WD, Wagner R. (2003). Use of hydrocyclone as an efficient and easily scalable perfusion system for mammalian cell bioreactors. GVC/DECHEMA Vortrags- und Diskussionstagung „Zellkulturen: Vom biologischen System zum Produktionsprozess“, May 26-28, Bad Dürkheim, Germany.
- Elsayed EA**, Piehl GW, Nothnagel J, Medronho RA, Deckwer WD, Wagner R. (2003). Use of hydrocyclone as an efficient tool for cell retention in perfusion cultures. 18<sup>th</sup> European Society for Animal Cell Technology Meeting, Animal Cell Technology Meets Genomics. May 11-14, Granada, Spain.
- El-Diwany AI, El-Enshasy HA, **Elsayed EA**, El-Sheich O. (2000). Denitrification of industrial wastes by free and immobilized bacteria. 5<sup>th</sup> International Symposium on Environmental Biotechnology. July 9-13, Kyoto, Japan.
- El-Enshasy HA, Farid MA, El-Diwany AI, **Elsayed EA**. (1999). Kinetics of natamycin production and degradation under different glucose concentrations in batch and fed-batch cultures. 11<sup>th</sup> International Symposium on the Biology of Actinomycetes. Session 2, Regulation of Metabolism. Oct. 24-28, Sissi, Heraklion, Crete, Greece.

#### **Workshops and Conferences attended**

- Scientific Basic Course for Flowcytometry. July 28<sup>th</sup> – 31<sup>st</sup>, 2003. Heidelberg, Germany.



- Laboratory Biosafety and Biosecurity Workshop. April 3<sup>rd</sup> – 5<sup>th</sup>, 2007. Cairo, Egypt.
- Sustainability within the Organic Chemistry Lab. March 23<sup>rd</sup> – 30<sup>th</sup>, 2009. Braunschweig, Germany.
- UNESCO World Conference on Education for Sustainable Development, March 31<sup>st</sup> – April 2<sup>nd</sup>, 2009. Bonn, Germany.
- Water, Wastewater and the Environment Urgent Issues for Sustainability. Alumni Expert Seminar, Oct. 25<sup>th</sup> – Nov. 3<sup>rd</sup>, 2009, Braunschweig, Germany.
- International Symposium Wastewater Recycling, Nov. 4<sup>th</sup> – 6<sup>th</sup>, 2009. Braunschweig, Germany.
- Fourth Saudi International Science Conference, March 21<sup>st</sup> – 24<sup>th</sup>, 2010. Almadinah Almunawwarah, Saudi Arabia.
- Microalgae: Sustainable resource for energy and chemical feedstock production. Scientific aspects and industrial applications. Alumni Expert Seminar, June 27<sup>th</sup> – Jul. 4<sup>rd</sup>, 2010, Braunschweig, Germany.
- Industrial Biotechnology Workshop: Present and future aspects. Jul. 14<sup>th</sup> – 15<sup>th</sup>, 2010, National Research Centre, Cairo, Egypt.
- 22<sup>nd</sup> European Society for Animal Cell Technology Meeting, May 15-19, 2011. Vienna, Austria.
- 26<sup>th</sup> Saudi Biological Society Conference, May, 10<sup>th</sup> – 12<sup>th</sup>, 2011. Taif, Kingdom of Saudi Arabia
- Toxic and Hazardous Substances in Water and Wastewater. EXCCED Expert Workshop, June 28<sup>th</sup> – Jul. 2<sup>nd</sup>, 2011, Istanbul, Turkey.

### **Scientific Membership**

\* Member of the European Society for Animal Cell Technology (ESACT)

\* Member of the Editorial Board of the following journals

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|------------------------------------|--|
| - Biotechnology                    | - Research Journal of Environmental Sciences |
| - Research Journal of Microbiology | - Trends in Applied Sciences Research        |

\* Technical Editor in the following journals

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| - Journal of Biological Sciences                 | - Journal of Applied Sciences      |
| - International Journal of Agricultural Research | - Research Journal of Microbiology |
| - Asian Journal of Biotechnology                 |                                    |

\* Reviewer in the following journals

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|---------------------------------------|--------------------------|
| - American Journal of Food Technology | - Bioresource Technology |
| - World Applied Science Journal       | - Process Biochemistry   |
| - Trends Biotechnology                | - Progress Technology    |