

## Curriculum Vitae



**Title: Dr.**

**Name:** Essam Nageh Sholkamy Lisi

**Sex:** Male

**Nationality:** Egyptian

**Date of Birth:** 20/4/1983

**Work and Correspondence Address:**

Department of Botany & Microbiology  
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### Academic Qualification:

Degree	Field	Institute	Date
Ph.D. degree	Microbiology	Department of Botany and Microbiology, Faculty of Science, Beni-seuf University, Egypt	April, 2016
	<b>Ph.D. Thesis title</b>	<b>Biosynthesis of some antimicrobial compounds and metal nanoparticles from actinomycetes associated with some different insects</b>	
M. Sc.	Microbiology	Department of Botany and Microbiology, Faculty of Science, Minia University, Egypt	Mar., 2009
	<b>Master Thesis title</b>	<b>Studies on the nitrogen fixing cyanobacteria associated with some cultivated plants in El-Minia governorate</b>	
B.Sc. (80.14 %)	Botany and microbiology	Department of Botany and Microbiology, Faculty of Science, Minia University, Egypt	June, 2004

**Major Field:** Microbiology

**Specialized Field:** Bacteriology

## Member in the following Committee

- 1- Development and quality committee (Botany & Microbiology Depart., College of Science)
- 2- Assessment and Academic Accreditation Committee(Botany & Microbiology Depart., college of science)
- 3- Laboratories and Safety committee(Botany & Microbiology Depart., College of

## Workshops in Deanships of skills Development, KSU, Saudi Arabia

Title of workshop	Training H.
1- Using google tools in education استخدام ادوات جوجل في التعليم	5
2- Learning theories نظريات التعلم	5
3- Using rubrics for students assessment استخدام نظام روبرك في التقييم الطلاب	5
4- Virtual classrooms الفصول الافتراضية	5
5- University professor ethics اخلاقيات الاستاذ الجامعي	5
6- Developing M.Sc. and PH.D. research proposals كتابة الخطة البحثية للماجستير والدكتوراة	10
7- TQM in higher education institution ادارة الجودة الشاملة في مؤسسات التعليم العالي	10
8- Teaching with brainstorming التعلم باستخدام العصف الذهني	5
9- Effective teaching مهارات التدريس الجامعي الفعال	12
10- Assessment of educated تقييم مخرجات التعلم	10
11- Micro-teaching and peer consultation التدريس المصغر واستشارة النظراء	5
12- Design and construction of the course تصميم وبناء المقرر الدراسي	10
13- ProQuest مهارات البحث في قواعد بيانات	5
14- KPIs and Benchmarking according to KSU-QMS مؤشرات الاداء الرئيسية للجامعة والمقارنات المرجعية للجودة	10
15- Developing and managing teamwork بناء وإدارة فرق العمل	5

## Scientific Conferences and workshops

Conference	Organized by	Date
معلم المستقبل:- إعدادة وتطويره	كلية التربية – جامعة الملك سعود	6-7/Oct./2015
Conference on the Bioremediation of Environmental pollution	Egyptian Botanical Society held in Tanta University, Faculty of Science, Botany Department	Dec., 22,2008
The 2 <sup>nd</sup> Scientific Meeting on Natural Products and Drug Discovery	Chair of Advanced Proteomics & Cytomics Research and Zoology Department, College of Science, KSU	May, 1-2, 2011

## Workshops

Workshop	Organized by	Date
Principals and applications of molecular biology (مشارك)	Training and community service unit held in KSU, Faculty of Science, Botany and microbiology Department	Nov., 7, 2013
Applications of Acoustic Focusing Cytometer and Fluid Imaging system (متدرب)	Training and community service unit held in KSU, Faculty of Science, Botany and microbiology Department	Nov., 21, 2013
Bruker GC-MS SQ training course (متدرب)	Abdullatif abu-AlJadayel Est. for trading co.	25-27, march 2014
التدريب على استخدام الاجهزة المعملية الحديثة (مشارك)	Training and community service unit held in KSU, Faculty of Science, Botany and microbiology Department	April, 8, 2014
سرعة الكشف والسيطرة على عدوى السل الكاذب باستخدام تقنيات البيولوجيا الجزيئية (متدرب)	الخطة الوطنية للعلوم والتقنية – جامعة الملك سعود	1-2 may, 2014
الانزيمات البكتيرية: طرق الانتاج وقياس النشاط الانزيمي وتحديد خصائص الانزيم (متدرب)	قسم النبات والاحياء الدقيقة	1434/1/14-13
Applications of Gas Chromatography-Mass Spectrometry (مشارك)	Training and community service unit held in KSU, Faculty of Science, Botany and microbiology Department	14-15, may, 2014
التقنيات الحديثة في البيولوجيا الجزيئية (مشارك)	الوحدة البيولوجية/قسم النبات والاحياء الدقيقة	1436/4/27
تقييم المخاطر وطرق الوقاية من الاسلحة البيولوجية لمنسوب القطاعات العسكرية (مشارك)	الوحدة البيولوجية/قسم النبات والاحياء الدقيقة	1437/12/29-24

السلامة والامن الحيوي (مشارك)	الوحدة البيولوجية/قسم النبات والاحياء الدقيقة	1435/7/9-5
العوامل البيولوجية الميكروبية واليات التعامل وطرق الكشف عنها (مشارك)	الوحدة البيولوجية/قسم النبات والاحياء الدقيقة	1437/11/30-25
الاحياء الجزيئية والاستجابة لاجهاد الحرارة (متدرب)	الخطة الوطنية للعلوم و التقنية بالتعاون بقسم النبات	1437/7/26-25

### Submission of genes in National Center of Biotechnology

Isolation of 16S rRNA genes from actinomycetes has biological activities against some human pathogens. They were submitted in National Center of Biotechnology and Information (www.ncbi.com) 2013 under the following accession numbers:

KF588366 (*Streptomyces bikiniensis* strain ess\_amA-1)  
KF996503 (*Streptomyces* sp. AW1 strain ess\_amH3)  
KF996504 (*Streptomyces somaliensis* strain ess\_amH2)  
KF996505 (*Streptomyces* sp. LD48 strain ess\_amH1)  
KF996506 (*Saccharopolyspora hirsuta* strain ess\_amA6)  
KF996507 (*Streptomyces antibioticus* strain ess\_amA8)  
KF996508 (*Streptomyces cinereoruber* strain ess\_amA13)

### Experiences:

Position	Institute	Date
<b>Lecturer</b>	Department of Botany and Microbiology, college of Science, King Saud University, Saudi Arabia	From 2010 to till date
<b>Pre-master course</b>	Department of Botany and Microbiology, Faculty of Science, Minia University, Egypt	Sep., 2004-June, 2005
<b>Research student</b> (Government scholarship for Master degree)	Department of Botany and Microbiology, Faculty of Science, Minia University, Egypt	March, 2005- March, 2009

### workshops

### Research interests

- 1- Extraction of bioactive compounds from microorganisms
- 2- Bioremediation
- 3- Biosynthesis of nanoparticles
- 4- Bio-fertilization

### Technical experience:

PCR machine

Extraction of DNA

Gel electrophoreses

Spectrophotometer

Microplate reader

Nano biotechnological techniques

Nano-drop spectrophotometer

Gas Chromatography

### Other experience:

English: Good in listening, writing and speaking.

Computer: Expert user of Word, Power point and some other programs.

### Teaching

Lab courses:

- Microbiology (Phycology, Bacteriology) (140 MIC)
- Biology of microalgae (280 MIC)
- Lab. Skills (240 MIC)
- Technique of biochemical machines (334 MIC)
- Research project (499 MIC)
- Genetics of microorganisms (351 MIC)

### Referees

- 1- Prof. Dr. Maged S. Ahmed (Botany and microbiology department, Beni-seuf University, Egypt)  
"Tel: 002 01008553565, email: [magedsmohamad@gmail.com](mailto:magedsmohamad@gmail.com) (Bacteriology)
- 2- Dr. Manal M. Yaser (Botany and microbiology department, Beni-seuf University, Egypt) Email:  
[manal\\_yaser2006@yahoo.com](mailto:manal_yaser2006@yahoo.com)
- 3- Dr. Abdullah A. Alarfaj (Botany and microbiology department, King Saud University, Saud Arabia) "Tel: 00966 554416380, email: [aalarfajj@ksu.edu.sa](mailto:aalarfajj@ksu.edu.sa) (Bacteriology)

#### **Published Papers:**

1. **Essam N. Sholkamy**, Arifa Tahir and Afshin Akram, (2017). Biological Detoxification of *Jatropha Curcas* Seed Cake for Poultry Feed Production. 3 Biotech (**Submitted**)
2. Hessa H. Al-Rasheed, **Essam N. Sholkamy**, Monirah Al Alshaikh, Mohammed R. H. Siddiqui, Ahmed S. Al-Obaidi and Ayman El-Faham (2017) Synthesis, Characterization and Antimicrobial Studies of Novel Series of 2,4-bis(hydrazino)-6-substituted-1,3,5-Triazine and Their Schiff Base Derivatives. Journal of Chemistry (**Submitted**)
3. **Essam Nageh Sholkamy**, Maged Sayed Ahmad and Manal Mohamed Yasser (2017) Characterization and Antimicrobial activity of nanosilver particles synthesized by *Saccharopolyspora hirsuta* isolated from an Insect *Tapinoma Simrothi*. Saudi Journal of Biological Sciences (**under review**)
4. Ashraf Mostafa, Abdulaziz A Al-Askar Khalid S Almaary, Turki M Dawoud, **Essam N Sholkamy** and Marwah M Bakri (2017). Antimicrobial activity of some plant extracts against bacterial strains causing food poisoning diseases. Saudi Journal of Biological Sciences (**in press**)
5. Arifa Tahir, Afshin Akram, Ahmed Abdel-Megeed, **Essam N. Sholkamy** and Ashraf A. Mostafa (2017). In vitro Compatibility of fungi for the Biosorption of Zinc (II) and Copper (II) from Electroplating Effluent. Current Science, vol. 112 (4): 839-844



6. Rukhsar Muzaffar, Arifa Tahir, **Essam N. Sholkamy**, Ashraf A. Mostafa, Abdullah A. Al-arfaj, Tarad Abalkhail, Ahmed Abdel-Megeed (2016). Development of Fungal Biofilm on *Luffa Cylindrica* for Biosorption of Zinc (II) From Aqueous Solution. Fresenius Environmental Bulletin, 25 (12): 5075\_5632.
7. Maged Sayed Ahmad, Manal Mohamed Yasser, **Essam Nageh Sholkamy**, Ali Mohamed Ali and Magda Mohamed Mehanni (2015). Anticancer activity of biostabilized selenium nanorods synthesized by *Streptomyces bikiniensis* strain Ess\_amA-1. International Journal of nanomedicine, 10: 3389–3401.
8. Ahmed Abdel-Megeed, **Essam N. Sholkamy**, Abdullah A. Alarfaj and Mostafa A. (2015). Proficiency of Biosynthesized silver nanoparticles as fungicide against selected damping off causing fungi. Journal of environmental biology, 36:1045-1049
9. **Essam N. Sholkamy**, Hesham El-Komy and Hayssam M. Ali (2015). Enhancement of soybean (*Glycine max* L.) growth by bio-fertilizers of *Nostoc muscorum* and *Nostoc rivulare*. Pakistan Journal of botany, 47(3): 1199-1204.
10. Ashraf A. Mostafa, Shaban R. M. Sayed, Essam N. Sholkamy, Mujeeb Khan, Mohammed R. Shaik, Al-Warthan A., and Syed F. Adil (2015). Evaluation of Biological Activities of Chemically Synthesized Silver Nanoparticles. Journal of Nanomaterials, Vol. (2015): 1-7.
11. Abdullah A. Alarfaj, Mohammed Arshad, **Essam N. Sholkamy** and Murugan A Munusamy (2015). Extraction and Characterization of Polyhydroxybutyrates (PHB) from *Bacillus thuringiensis* KSADL127 Isolated from Mangrove Environments of Saudi Arabia. Braz. Arch. Biol. Technol., 58(5):781-788.
12. **Essam N. Sholkamy** (2014). Gas Chromatography-mass Spectrometry (GC-MS) Analysis of Bioactive Compounds Extracted from *Streptomyces antibioticus* by Ethyl Acetate. Journal of Pure & Applied microbiology, 8(Spl. Edn. 2): 761-767.

13. Zainab Al Marhoon, Ayman El-Faham, Ahmed Abdel-Megeed, **Essam N. Sholkamy**, Rafiq H Siddiqui, (2014). Synthesis of phenylcarbamic acid and 2-(2-oxo-3-(4-substituted phenylimino)indolin-1-yl) acetohydrazide derivatives as a promising antifungal agents. Asian Journal of Chemistry, Vol. 26 (2014).
14. Ahmed S. M., Yaser M. M. and **Essam N. Sholkamy** (2014) Biosynthesis, characterization and biological activity of silver nanoparticles by *Streptomyces bikiniensis* strain Ess\_amA-1. Journal Of Pure And Applied Microbiology, Vol. 8 (1), p. 251-262
15. Ahmed Abdel-Megeed, Ashour Eman, Al-Meshal Areej Suliman, **Essam N. Sholkamy** (2013). In vitro detection of herbicide-tolerant fungi isolated from pesticides polluted-soil. Journal of Agricultural Science and Technology, 960-972
16. Ahmed Abdel-Megeed, Al-Meshal Areej Suliman, Ashour Eman, **Essam N. Sholkamy** (2013). Biodegradation of Glyphosate by fungal strains isolated from herbicides polluted-soils in Riyadh area. International Journal of Current Microbiology and Applied Sciences, 2(8): 359-381.
17. Ashraf A. Mostafa, A.N. Al-Rahmah, Ahmed Abdel-Megeed, **Essam N. Sholkamy**, Abdullah A. Al-Arfaj and Mohamed S. El-shikh (2012). Fungitoxic Properties of Some Plant Extracts Against Tomato Phytopathogenic Fungi. Journal Of Pure And Applied Microbiology, Vol. 6(4), p. 1889-1898.
18. **Essam N. Sholkamy**, A. Abdel-Megeed, Elnakieb, A.A. Fatma and A. Al-Arfaj (2012). Biodiesel Production and Biotechnological Applications from Microalgae Isolated from Water System of Riyadh, Saudi Arabia. Journal Of Pure And Applied Microbiology, Vol. 6(4), p. 1653-1662.
19. **Essam N. Sholkamy**; El-Komy, H. Abdullah A. Al-Arfaj, Ahmed Abdel-Megeed, Ashraf A. Mostafa (2012). Potential role of *Nostoc muscorum* and *Nostoc rivulare* as biofertilizers



for the enhancement of maize growth under different doses of n-fertilizer. African Journal of Microbiology Research, Vol. 6(48), pp. 7435-7448

20. **Essam N. Sholkamy**, Fadel-Allah EM, El-komy HM, Al-Harbi NA. (2011). in Vitro Creation of Artificial Nitrogen Fixing Cyanobacterium (*Nostoc muscorum*) association with Wheat. African Journal of Microbiology Research, 5(3): 302-310.
21. Ezzat M. Fadel-Allah, H. M. El-komy and **Essam N. sholkamy** (2010): The effect of cyanobacteria, *Nostoc muscorum* as Biofertilizer on growth and N-yield of Wheat (*Triticum aestivum* L.) under Different Doses of N-fertilizer. J. of Association of Arab Universities for the basic and Applied Sciences, Bahrain, 8: 61-74.