

**Amr Tag El-Din Mahmoud Saeb, Ph.D.**

*Molecular Phylogenetics and Population Geneticist*

**PROFESSIONAL EXPERIENCE**

**January 2017- Present**

**(Head)** Microbial Genetics Department

Strategic Center for Diabetes Research

 King Saud University**,** Riyadh, KSA

**January 2015 to January 2017**

**(Head)** Genetics and Microbiology DepartmentStrategic Center for Diabetes Research

King Saud University**,** Riyadh, KSA

**February 2014 to Present**

**Editor-in-Chief (EIC) of IGE**

SOP Transaction on Inheritance and Genetic Engineering

**February 2014 to Present**

**Editorial Board Member**

 Journal of Evolutionary Bioinformatics

**July 2009- Present Assistant Professor**

College of Medicine, King Saud University

Riyadh, KSA

**July 2009- 2015**

**(Head)** Bioinformatics and Biotechnology Dept.Strategic Center for Diabetes Research

King Saud University**,** Riyadh, KSA

 **July 2009**

 **(In-charge)** Microbiology Laboratory

Strategic Center for Diabetes Research

King Saud University**,** Riyadh, KSA

**July 2014 to present Editorial Board Member** Advance in Life Science and Health

**July 2014 to present Editorial Board Member**

SOPTransaction on Inheritance and Genetic Engineering

**March 2007- July 2009**

**Lecturer** Molecular Biology and Evolution

Department of Molecular Biology

Genetic Engineering and Biotechnology

 Minofia University, Egypt

**PERSONAL INFORMATION**

**Address:** Riyadh, Kingdom of Saudi Arabia

**Mobile number**: +966 566263979

**Email addresses:** dr.amrsaeb@gmail.com saeb.1@osu.edu

**Linkedin profile:**

<https://www.linkedin.com/in/amr-t-m-saeb-49378137/>

**Research gate profile:** <https://www.researchgate.net/profile/Amr_Saeb>

**EDUCATION**

**2006 Ph.D.** *Molecular Phylogenetics and Population Genetics*

The Ohio State University

Columbus, Ohio, USA

**2000 Master in Science**, *Genetics*

Ain Shams University

Cairo, Egypt

**1994 Bachelor in Science**, *Genetics*

Ain Shams University

Cairo, Egypt

**HONORS & AWARDS**

**Albert Nelson Marquis Lifetime Achievement Awardee** Marquis Who’s Who in the World®

Prestigious award for the hard work and dedication (16 May 2017)

**Marquis Who’s Who in the World® 2015 (32nd Edition)** For outstanding achievements

Marquis Who’s Who

America’s Biographer since 1899

[www.marquiswhoswho.com](http://www.marquiswhoswho.com)

**The Honor Society of Phi Kappa Phi**

Life Time Membership by Election Ohio State University, USA

**The Egyptian Academy of Scientific Research Grant**

Best Graduate Student

The Egyptian Ministry of Higher Education

Cairo, Egypt

**PhD Scholarship in Ohio State University, USA**

The Egyptian Ministry of Higher Education

Cairo, Egypt

**First Place Award** Poster Presentation

2006 Annual Conference of OARCD/OSU

**SCIENTIFIC SOCIETIES MEMBERSHIP**

The Society of Nematology

The Society of Parasitology

The Society of Invertebrate Pathology

The American Socitey of Plant Pathology

The Wooster Area Molecular Biology

 Association, Wooster, Ohio

The Egyptian Society of Genetics

**SCIENTIFIC PUBLICATIONS**

1. **Amr T.M. Saeb**, Mohamed Abouelhoda, Manojkumar Selvaraju, Sahar I Althawadi, Maysoon Mutabagani, Mohammad Adil, Abdullah Al Hokail and Hamsa T Tayeb. The Use of Next-Generation Sequencing in the Identification of a Fastidious Pathogen: A Lesson From a Clinical Setup. Evolutionary bioinformatics online 12:1-15 · February 2017.
2. **Amr T. M. Saeb**, Mohamed Al-Derwish, Samir Ouzi and Khalid A. Al-Rubeaan. A Case of ***Arcanobacterium haemolyticum*** Osteomyelitis and Cellulitis Diagnosed via Partial 16s rRNA Sequencing **(In preparation).**
3. Khalid A. Al-Rubeaan, **Amr T. M. Saeb**, Dhekra M. AlNaqeb, Hamed M. AlQumaidi, Turki A. AlMogbel. The bacterial contamination rate of glucose meter test strips in the hospital setting. Saudi medical journal 37(9):985-995 · August 2016
4. **Amr T. M. Saeb** and Dhekra Al-Naqeb. The Impact of Evolutionary Driving Forces on Human Complex Diseases: A Population Genetics Approach. Scientifica. Volume 2016 <http://dx.doi.org/10.1155/2016/2079704>
5. **Amr T. M. Saeb**. Presence of Bacterial Virulence Gene Homologues in the dibenzo-p-dioxins degrading bacterium Sphingomonas wittichii. Bioinformation 12(4):241-248 · July 2016.
6. Usman Latif, Khalid Al-Rubeaan and **Amr T.M. Saeb**: A review on Antimicrobial Chitosan-Silver Nanocomposites: A Roadmap Toward Pathogen Targeted Synthesis. International Journal of Polymeric Materials and Polymeric Biomaterials. Volume 64, Issue 9, 2015. DOI: 10.1080/00914037.2014.958834.
7. **Amr T. M. Saeb** and Satish Kumar David: Comparative Estimation of Genetic Diversity in Population Studies using Molecular Sampling and Traditional Sampling Methods. Bioinformation 10(6): 347-352

**January – March 2007**  **Post-Doctoral Researcher**

**“***Population Genetics and Phylogeny of Entomopathogenic Nematodes”*

Department of Entomology

The Ohio State University

Columbus, Ohio, USA

**2003-2004 Teaching Assistant**

Entomology& Plant Pathology Departments

 The Ohio State University

 Columbus, Ohio, USA

**2000– 2007 Assistant Lecturer**

Genetic Engineering and Biotechnology Research

Institute (GEBRI)

Minofia University

Minofia, Egypt

**1998- 2000 Demonstrator**

Genetic Engineering and Biotechnology Research

Institute (GEBRI)

Minofia University

Minofia, Egypt

**1998-2000 Teaching Member**

Genetic and Microbial Genetics department

**Participant in Scientific Researches**

**1996 – 1998 Research Assistant**

National Research Center

Dokki, Cairo, Egypt

**1996-1998** **Research Assistant**

General Biology and Genetics Course

High Agricultural Institute

Ministry of Higher Education

Shoubra Elkhemma, Cairo, Egypt

**1996-1998 Teaching Assistant**

General Biology and Genetics CourseHigh Agriculture Institute

 Ministry of Higher Education Shoubra Elkhemma, Cairo, Egypt

**1994- 1996 Research Assistant**

Faculty of Agriculture

The Environmental Mutagenesis Research Unit (EMRU)

Ain Shams University

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| 1. Rezk El-baz, Sabah Farouk, **Amr Tag Eldin Saeb** and HanyEzat: Endothelial nitric oxide synthase gene polymorphism (G894T) in diabetes mellitus in Egypt. The Egyptian Journal of Hospital Medicine, 38:83-93.
2. Bai, X., **Saeb A. T.,** Michel, A. and Grewal, P. S.: Isolation and characterization of microsatellite loci in the entomopathogenic nematode Heterorhabditisbacteriophora". **Molecular Ecology Resources 9, pp.207-209.**
3. Amr T. M. Saeb and Parwinder S. Grewal: Intraspecific genetic variation in the major sperm protein gene of the entomopathogenic nematode Heterorhabditisbacteriophora. Int. J. Nematol. 17, pp. 187-198.
4. Abdel-Salam, M.S., Abd El-Salam, A.Z., Ibrahim, S.A., Nivien A. Abosereh and Saeb, A.T.M.: Resistance Plasmids of Indigenous Pseudomonas in Egypt. Journal of Applied Sciences Research, 3 (9): 873-878, 2007.
5. Ganpati. B. Jagdale, Amr T. M. Saeb, Nethi Somasekhar, and Parwinder S. Grewal: Genetic variation and relationships between isolates and species of the entomopathogenic nematode genus Heterorhabditis deciphered through isozyme profiles. Journal of Parasitology: Vol. 92, No. 3, pp. 509–516.
6. Amr T.M. Saeb and Parwinder S. Grewal: Noval molecular markers for the identification of the species of entomopathogenic nematode Heterorhabditis. Journal of Nematology 36 (3), 344-344.

**POSTER AND ORAL PRESENTATIONS** |
| 1. Genome sequencing and analysis of the first documented spontaneous nanosilver resistant bacterium Proteus mirabilis SCDR1. **Amr Saeb**, Khalid Al-Rubeaan1, Mohamed Abouelhoda, Manojkumar Selvaraju, Hamsa Tayeb. 27th ECCMID,22 April **2017**, **Vienna, Austria**
2. Genetic Susceptibility to Type 2 Diabetes and Obesity: Concepts, Methodologies and Outcomes. 3rd Annual Gulf Obesity Surgery Society Meeting 2015, GOSS2015 conference. 14 December **2015**, Ritz Carlton Hotel, **Saudi Arabia**.
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1. **Amr T. M. Saeb** and Parwinder S. Grewal: NADH Dehydrogenase subunit4 is not an ideal target for phylogeny reconstruction or genetic differentiation in Heterorhabditis SOP Transactions on Inheritance and Genetic Engineering). Pub. Date(Web): 2014-12-11
2. **Amr T. M. Saeb** and Parwinder S. Grewal: NADH Dehydrogenase subunit4 is not an ideal target for phylogeny reconstruction or genetic differentiation in Heterorhabditis SOP Transactions on Inheritance and Genetic Engineering). Pub. Date(Web): 2014-12-11.
3. **Amr T. M. Saeb** and Parwinder S. Grewal: Phylogenetic and Population Genetic Structure of the Yellow Spotted Longicorn Beetle Psacothea Hilaris Advances in Life Sciences and Health. Pub. Date (Web): 2014-11-27 <http://www.scipublish.com/journals/ALSH/recent>.
4. **Amr T. M. Saeb**, Satish Kumar David and Hissa Al-Abrahim: In Silico detection of Virulence gene homologues of the Human Pathogen Sphingomonas spp. Evolutionary Bioinformatics, 2014:10, 229-238. doi: 10.4137/EBO.S20710.
5. **Amr T.M. Saeb**. Heat Shock Protein Hsp70 Multigene Family as a New Genetic Target for The Differentiation and Identification of Entomopathogenic Nematodes (Rhabditida: Heterorhabditidae). Advances in Life Sciences and Health. Pub. Date (Web): 2014-09-02. <http://www.scipublish.com/journals/ALSH/recent>.
6. **Amr T.M. Saeb**, Ahmad S. Alshammari, Hessa Al-Brahim, and Khalid A. Al-Rubeaan: Production of Silver Nanoparticles with Strong and Stable Antimicrobial Activity against Highly Pathogenic and Multidrug Resistant Bacteria. Scientific World Journal, Volume 2014, ID 704708, <http://dx.doi.org/10.1155/2014/704708>.
7. [Khalid Al-Rubeaan](http://www.sciencedirect.com/science/article/pii/S0378111913001935), [Khalid Siddiqui](http://www.sciencedirect.com/science/article/pii/S0378111913001935) , [**Amr T.M. Saeb**](http://www.sciencedirect.com/science/article/pii/S0378111913001935) , [Nyla Nazir](http://www.sciencedirect.com/science/article/pii/S0378111913001935) , [Dhekra Al-Naqeb](http://www.sciencedirect.com/science/article/pii/S0378111913001935) , [Sarah Al-Qassim](http://www.sciencedirect.com/science/article/pii/S0378111913001935): ACE I/D and MTHFR C677T polymorphism is significantly associated with type 2 diabetes in Arab ethnicity: A meta-analysis. Gene, <http://dx.doi.org/10.1016/j.gene.2013.02.017>.

**AREAS OF EXPERTISE**

**Teaching**

* Genetics Research
* General Biology
* Advanced Microbial Genetics
* Biochemical Genetics
* Molecular Genetics
* Microbial Cytology
* Genetic Engineering
* Bacterial Physiology Protein Sequencing (B1-81) and Advanced Molecular Genetics
* Fungal Molecular Genetics, Systematics and Phylogenetics
* Advanced Topics of Fungal Biology
* Molecular Identification and DNA Methods Laboratory
* Genetic Engineering and Biotechnology Research
* Nematology: Experienced in standard nematology techniques.
* Molecular Phylogenetics and population genetics. : Experienced with DNA sequencing, plasmid manipulation techniques.
* Latest methods of Phylogenetic analysis of DNA and proteins, such as PAUP\*, MEGA, Modeltest, ProtTest, ClustalX and W, Mr.Bayes, DnaSP, POPGEN, LAMARC and Others.

**Research**

* Bacterial pathogenesis and virulence
* Molecular pathology
* Comparative genomics
* Bioinformatics: DNA, RNA and Protein sequence analysis, functional and positional gene annotation, structural analysis, sequence alignments and many others
* Human Oral Microbiome Analysis
* Pyrosequencing Technique.
* Microbiology: Experienced in standard microbiology techniques

Molecular Biology: Experienced in standard techniques such as DNA manipulation, primer design, PCR, electrophoresis, southern blotting.

**Scientific Writing**

* Editor In Chief
* Editorial Board
* Scientific Reviewer
* Scientific Writing & Publications
1. Prevalence of IL28B Gene Variants Among The Saudi Population and A Guide to Interferon Alpha Treatment in Saudi HCV Patients. Target Validation using Genomics and Informatics. EMBL-WELLCOME genome campus conference. **8-10 December, 2015 Hinxton, Cambridge, UK**
2. Characterization from Escherichia hermannii, Citrobacter sedlakii and Pseudomonas putida Isolates. BIT’S 4th Annual World Congress of Microbes-2014 (WCM -2014). SBI-2: Best Clinical Practice on Severe Bacterial Diseases. **June27-29, 2014 Dalian, China**
3. The role of Bioinfomatics in Human Exome studies. 4th of March, 2010, Riyadh Diabetes Basic Research Group, King Saud University, **KSA.**
4. Nanotechnology role in Single molecule DNA, sequencing. 4th of February, 2010, Riyadh Diabetes Basic Research Group, King Saud University, **KSA.**
5. The role of Bioinfomatics in GWA studies, the first Saudi Diabetes symposium, 20th January, 2010, King Saud University, Riyadh, KSA.
6. Saeb, A.\* Jagdale, G. B. &Grewal, P. S. Investigation of the genetic diversity, phylogeny, and sub-species structuring in the entomopathogenic nematode, Heterorhabditisusing random amplified polymorphic DNA, partial ribosomal DNA, cytochrome oxidase subunit 1 and major sperm protein sequence analysis. OARDC Annual Conference, April 20, 2006. [First Place Poster Competition], **Columbus, Ohio, United States of America.**
7. Saeb, A.\* & Grewal, P. S. Investigation of the metapopulation structure in Bursaphelenchusconicaudatus (Nematoda: Aphelenchoididae) on Japanese Islands. OARDC Annual Conference, April 21, 2005. [Poster], Columbus, **Ohio, United States of America**.
8. Saeb, A.\* & Grewal, P. S. "Novel molecular markers for the identification of nematodes", OARDC Annual Conference, April 29, 2004, Wooster, Ohio, **United States of America**.

**REFERENCES**

**Prof. Dr. Parwinder S. Grewal**

Entomology and Plant Pathology Department

The University of Tennessee

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Knoxville, TN 37996-4560 USA

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**Fax:** 865-974-4744

**E-mail:** pgrewal@utk.edu

**Prof. Dr. Khalid A. Al-Rubeaan**

Director

Strategic Center for Diabetes Research

King Saud University

P.O. Box 18397

Riyadh 11415

Saudi Arabia
**E-mail**: kalrubeaan@gmail.com

 krubean@ksu.edu.sa

**Dr. Mohamed Rafiuallah**

Pharmacology and Nanotechnology Department

Strategic Center for Diabetes Research

King Saud University

P.O. Box 18397 Riyadh 11415 , Saudi Arabia

**Phone:** 0096653007787

**E-mail:** rafimmc@gmail.com

**Dr. Ahmad S. Alshammari**

The National Nanotechnology Center

King Abdulaziz City for Science and Technology

P.O. Box 6086

Riyadh 11442

Saudi Arabia
**E-mail:** aalshammari@kacst.edu.sa

**Dr. Satish Kumar David**

Information Technology Department

Strategic Center for Diabetes Research,

King Saud University

P.O. Box 18397

Riyadh 11415

Saudi Arabia

**E-mail:** satishkdavid@gmail.com

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| **LECTURES CONDUCTED** |
| **2009 to present** Regular presentations and lectures of the following Academic activities at the University Diabetes Center,with audiences from different specializations, coming from inside and outside of Saudi Arabia. * Scietific Journal Activity
* Main Presentation
* Riyadh Diabetes Club
* Outside Riyadh Lectures

**MAJOR WORKSHOP ATTENDED** |
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| **2006** | Workshop on Molecular Evolution. Marine Biological Laboratory at Woods Hole, MA., USA **(The house of Nobel Prize winners).** |

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