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Current Occupation:

Researcher at Department of Microbiology and Immunology, Division of Veterinary Researches, National Research Center, Giza, Egypt.

Assistant Professor of Microbiology (Secondment), Medical Laboratories Department (MDL), College of Applied Medical Sciences, Majmaah University, KSA.

Qualification:

- Philosophy Degree in Microbiology (Bacteriology, Mycology and Immunology), entitled "Molecular and Biological Studies on *Cryptococcus neoformans*" Cairo University, Giza, Egypt, July (2011).
- Master Degree in Microbiology (Bacteriology, Mycology and Immunology), entitled "Molecular Biology Studies on *Cryptococcus neoformans*" Cairo University, Giza, Egypt, August (2004).
- Diploma in Microbiology (Bacteriology, Mycology and Immunology), Cairo University, Giza, Egypt, September (1999).
- Bachelor of Veterinary Medicine, Cairo University, Giza, Egypt, September (1997).

Job Experience:

September 2016 till now:

- Assistant professor of Microbiology & Immunology, Department of Medical Laboratories (MDL)
- Head of Community Services Unit, College of Applied Medical Sciences.
- Member in Committee of Students Affair (Department of Medical Laboratory Sciences).

- Member in Committee of Quality and Quality Assurance (Department of Medical Laboratory Sciences)
- Member in Committee of Scientific Research Committee (Department of Medical Laboratory Sciences).
- Member in Committee of Training and Internship (Department of Medical Laboratory Sciences)

February till August 2016 :

- Assistant of Vice dean of Postgraduates and Scientific Research, College of Applied Medical Sciences, Majmaah University, Majmaah, KSA for one year.
"Deanship includes: Scientific Research, Postgraduates affair, Community Services and International Cooperation units".

October 2014 till now (KSA)

- **Assistant Professor** in Medical Laboratories Department/ Faculty of Applied Medical Sciences at Majmaah University, Kingdom of Saudi Arabia.
- Coordinator of German Accreditation and Quality (Department of Medical Laboratories)
- Coordinator of Clinical Training and Internship (Department of Medical Laboratories)
- Teaching of many courses {Medical Microbiology, Epidemiology, Mycology and Analytical Laboratory Automation}.
- Preparing Laboratory Manuals for three courses {Diagnostic Molecular Biology, Clinical Mycology and Analytical Laboratory Automation}.
- Writing project proposals.

June – August 2014 (The Netherlands)

- **Postdoctoral scientific mission at CBS, Utrecht, The Netherlands**
 - worked on molecular biological techniques for diagnosing fungal infection and
 - **MALDI – TOF** project for diagnosing of yeasts from Iran and Turkey.
 - Isolation, Identification, **Mono PCR and Sequencing** of Tunisian *Candida* species strains.

February 2009 – September 2014 (Egypt)

- **Researcher** in National Research Center, Department of Microbiology and Immunology.
- Summer training of undergraduates (students of Faculty of Science and Veterinary Medicine).
- Writing and reviewing scientific manuscripts.
- Isolating and identifying many Fungi (Yeasts; Molds and Dermatophytes) and some bacterial species of infectious and/ or zoonotic importance using conventional techniques.
- Using tools of Bioinformatics as designing of specific primers; DNA sequences alignment and general knowledge about phylogenetic analysis.
- Extracting microbial DNAs from different samples (blood; urine; tissues; nail; hair; paraffin-embedded tissues and lyophilized microbial strains) from different sources (human; animals; birds; fish and laboratory animals).
- Phenotypic and genotypic characterization of microorganisms and their virulence genes using molecular biology techniques as Polymerase Chain Reaction (Mono; Multiplex and Nested PCR); amplification and purification of specific genes or whole genome for sequencing and phylogenetic analysis.
- Examining the antimicrobial effect of certain herbal and essential oils *in vitro* and *in vivo*.
- Writing project proposals.

May 2002 – August 2009

- **Molecular Biologist** in PCR unit of private laboratory (Al – Mokhtabar), 2004 – 2004
- Detecting and genotyping of many microbial diseases as HCV; HBV; T.B. and other infectious organisms either qualitatively or quantitatively.
- HLA class II (for paternity tests and tissue compatibility)
- Studying the antimicrobial effect of certain herbal extracts and their use as pharmaceutical preparation.
- **Veterinary Doctor** in "Equine Care Center", Veterinary Medicine Directorate (Giza Governorate).
- Diagnosis of infectious and non-infectious Equine and Camel diseases.
- Periodical clinical and laboratory examination of Horses, Mules and Camels.
- Periodical and seasonal vaccination against infectious diseases.
- Trying to solve the field problems (diagnosing, treating, preventing and control).
- Observation and inspection of hygienic measures of Equine stables used as quarantines.
- **Assistant pharmacist** in private pharmacies.
- Supplying patients with the described treatment.
- Formulation of pharmaceutical preparations as described.
- Intramuscular and intravenous injections as described for patients.
- Manage pharmacy operations using a professional Computer Software.

January 1999 – May 2002

- **Assistant Researcher** in Animal Reproduction Research Institute (ARRI), Giza, Egypt. Department of Animal Reproduction Diseases, Mycology Unit.
- Learnt most of conventional techniques for isolating and identifying fungal species.
- Visiting of private farms; collecting samples (of animal source) and microbiological examination of the collected samples.
- Staff member in the Unit of Special Character (Unit to Monitor and Improve the Animal Reproductive Performance), Department of Animal Reproduction Diseases in Animal Reproduction Research Institute (ARRI), where mycological examination and measuring of mycotoxins in feed staff, milk, meat and their products were my mission.

October 1997 – December 1999

- **Laboratory doctor** in private Laboratory of "Islamic Medical Organization", Giza, Egypt.

October 1992 – September 1997

- **Undergraduate student**, Faculty of Veterinary Medicine, Cairo University

Professional Courses Attended:

2020 – 2021

- Honored as Ambassador of Quality and Quality Assurance, representative to Majmaah University among Saudi Universities (2021)
- Participated as a reviewer in an internal audit for academic accreditation (MOCK), College of Computer Sciences, Majmaah University, Majmaah, KSA. (17-18/02/2021)
- **Conference entitled “Application of Medical Sensors in Controlling COVID-19 Pandemic (online)**, College of Science and Humanities, Al-Ghat, Majmaah University, KSA. (10/05/2020)
- Participated as a reviewer in an internal audit for academic accreditation (MOCK), College of Dentistry, Majmaah University, Majmaah, KSA. 923-24/02/2020)

2019 – 2020

- **Conference entitled "Scientific Research Day"**, College of Science and Humanities, Al-Ghat, Majmaah University, KSA.

2018 – 2019

- **Conference entitled "Scientific Research Day"**, College of Science and Humanities, Al-Ghat, Majmaah University, KSA.
- **Workshop entitled "Preparing of Program Annual Report"** College of Applied Medical Science, Majmaah University, KSA.
- **Workshop entitled " Final exam question bank and blueprint policies"** College of Applied Medical Science, Majmaah University, KSA.
- **Periodical workshop entitled "Role of Academic Advisor"** College of Applied Medical Science, Majmaah University, KSA.

2017 – 2018

- **Workshop entitled "Assessment of Learning Outcomes workshop"**, College of Applied Medical Science, Majmaah University, KSA.
- **Workshop entitled "Preparing for Scientific Researches"**, College of Anthropology, Majmaah University, KSA.
- **Workshop entitled "Preparing Programs for Academic Accreditation"**, Deanship of Quality and Academic Accreditation, Majmaah University, KSA.
- **Workshop entitled "Continuous Improvement: KAIZEN"**, Deanship of Quality and Academic Accreditation, Majmaah University, KSA.

2016 – 2017

- **Workshop entitled "Assessment of Learning Outcomes"**, Deanship of Quality and Continuous Improvement, College of Education, Majmaah University
- **Workshop entitled "Improvement Planning"**, Deanship of Quality and Continuous Improvement, College of Education, Majmaah University.
- **Workshop entitled "D2L Activation to Prepare Questions Banks"**, Deanship of Quality and Continuous Improvement, College of Education, Majmaah University.
- **Cardio Pulmonary Resuscitation (CPR) and Basic Life Support (BLS) workshop** with instructor's license from Saudi Heart Association (SHA), Riyadh, KSA.
- **Workshop entitled " The role of faculty member in promoting intellectual awareness using critical thinking skills"**, Princess Nourah University, Riyadh, KSA.

2015 – 2016

- **Periodical workshops entitled "Desire to Learn (D2L)" workshop** at College of Applied Medical Science, Majmaah University, KSA.
- **Periodical Biosafety Workshops**, College of Applied Medical Science, Majmaah University, KSA.

November 2014 – February 2015

- **Laboratory Safety workshop** at College of Applied Medical Science, Majmaah University, KSA.
- **Desire to Learn (D2L) workshop** at College of Applied Medical Science, Majmaah University, KSA.

February 2013

- **Laboratory Biosafety Training Workshop:** By Chemical Security Engagement Program (CSP), National Research Center (NRC).

November 2012

- **ELISA applications:** In Animal Reproduction Research Institute (Department of Immunology).
- **Chemical Risk Management Training Workshop:** By Chemical Security Engagement Program (CSP), National Research Center (NRC).
- **TOEFL IBT:** In America-MidEast Educational and Training Services (AMIDEAST).

October – December 2011

- **"International Computer Driven License (ICDL)"**, at National Research Center.

September 2002

- **Caring of Equine Reproductive System:** In Animal Reproduction Research Institute (in corporation with Department of Veterinary Medicine (Giza Governorate).

April 2002

- **Advanced Regimes for Reproductive Care of Farm Animals:** In Animal Reproduction Research Institute.

March 2002

- **Clean Milk Production.**
- **Newly Born Calves Rearing.**
In Animal Reproduction Research Institute.

February 2002

- **The Effect of Pathogenic Fungi and their Toxins on the Animal Reproductive Efficiency:** In Animal Reproduction Research Institute.

December 2001

- **Infectious Reproductive Diseases Causing Infertility and Abortion in Farm Animals:** In Animal Reproduction Research Institute.

October 2001

- **The Practical Applications of Advanced Immunological Techniques for Increasing the Farm Animal Productivity:** In Animal Reproduction Research Institute.

September 2000

- **Increasing Productivity of Dairy Animals:** In Animal Reproduction Research Institute.

August 2000

- **Infertility and Abortion – Inducing Reproductive Diseases in Farm Animals:** In Animal Reproduction Research Institute.

June 2000

- **Clinical Diagnosis and The Use of Ultrasonography in The Field of Reproductive Care for Farm Animals:** In Animal Reproduction Research Institute.

March 2000

- **Healthy Upbringing of Newly Born Calves:** In Animal Reproduction Research Institute.

Training Courses and Conferences as Lecturer or Organizer:

November 2017

- Lecturer of "**Awareness about Diabetes**" for non – Arabic speakers, Dawaah Center, Majmaah, KSA.

October 2017

- Lecturer of "**Breast Cancer Awareness Day**", Majmaah, KSA.

November 2016

- Organizer of campaign entitled "**Hope Cells: Stem Cells Donation, Saudi Stem Cells Donation Registry**", College of Applied Medical Sciences (CAMS), Majmaah University/ King Abdul-Aziz Hospital (National Guard Hospital), Riyadh, KSA.

May 2016

- Organizer of "**Students Scientific Research Week**", Scientific Research Unit, Vice dean of Scientific Research, College of Applied Medical Sciences, Majmaah University, Majmaah, KSA.
- Organizer of "**Injuries Symposium**", Scientific Research Unit, Vice dean of Scientific Research, College of Applied Medical Sciences, Majmaah University, Majmaah, KSA.

January 2015

- Workshops for **Academic German Accreditation** for staff members of departments of Medical Laboratories and Nursing, College of Applied Medical Sciences (CAMS), Majmaah University, KSA.

May 2014-8th-9th

- lecturer and practical trainer in a workshop entitled "**Advanced Techniques for Microbial Identification**", Department of Microbiology and Immunology, National Research Center, Giza, Egypt

December 2013-8th-9th

- Lecturer and trainer in a workshop entitled "**Real time PCR**", Department of Biotechnology, Faculty of Veterinary Medicine, Cairo University, Giza, Egypt.

November 2013-10th-20th

- Organizer and lecturer in a workshop entitled "**Recombinant DNA and forensic medicine**", National Research Center, Giza, Egypt.

May 2013-06th-14th

- Training Course in "**Microbiology and Molecular Biology of Pathogenic Fungi**" for Postgraduate Students of Faculty of Veterinary Medicine, in National Research Center, Giza, Egypt.

June – July 2012

- **Training Course for undergraduate students** of the Faculty of Science (Azhar University), in National Research Center, Giza, Egypt.

June – July 2010

- **Training Course for undergraduate students** of Science (Azhar University), in National Research Center, Giza, Egypt.

June – July 2009

- **Training Course for undergraduate students** of the Faculty of Science (Azhar and Ain Shams Universities), in National Research Center, Giza, Egypt.

June – July 2008

- **Training Course for undergraduate students** of the Faculty of Science (Azhar and Ain Shams Universities), in National Research Center, Giza, Egypt.

Conferences Attended

March 2018

- **"Scientific Research Day"**, College of Sciences and Humanities, Majmaah University, KSA.

November 2016

- **"Impact of Community services in developing the countries"**, College of Community Services, Princes Norah's University, Riyadh, KSA.

March 2016

- **The 7th Students' Conference**, (organizing committee), College of Applied Medical Sciences, Majmaah University, Majmaah, KSA.

June 2012

- **18th Congress of the International Society of Human and Animal Mycology**, Berlin, Germany. participated with poster.

February 2010

- The 5th International Conference of Veterinary Research Division, NRC. Entitled **"The Use of Advanced Technology for Development of Animal Production"**.

February, 2008

- The 4th International Conference of Veterinary Research Division, NRC. Entitled **"Veterinary Medicine and Consumer Protection"** and participating with oral presentation entitled **"Mycotoxins: The Silent Killer"**.

Scientific Supervision

- Master Degree of Dr. Ehsan Ahmed Elkady Entitled by "Molecular and Phenotypic Characterization of *Cryptococcus neoformans*". Department of Microbiology, Faculty of Veterinary Medicine. Alexandria University (withdrawn due to travelling).

Associations Membership

- Egyptian Biosafety Association (EGYBSA), Egypt
- Egyptian Buffalo Breeding Society, Egypt
- International Society of Human and Animal Mycology (ISHAM), Germany.

Published Papers& Books

2004

- **Randa M. Alarousy**, Tawakkol W., Kotb M.H.R. and Refai M.K. (2004): Studies on *Cryptococcus neoformans* from Milk and Pigeon Droppings with Reference to the Effect of Oils and its Growth and Capsular Size, Egypt. J. Biomed. Sci. Vol. (16): 340 – 353.

2005

- M. Refai , M. Kotb R., H. Shawky, **R. M. Al-Arosi** and W. Tawakkol, M. El-Hariri. (2005): Development of brown colonies and capsule of *Cryptococcus neoformans* on plant extract agar and media containing oils. Mykologie Forum Deutschsprachige Mykologische Gesellschaft e.V German-speaking Mycological Society e.V.: 24 - 27

2008

- Kotb M.H.R.; Tawakkol W.; Hend Shalaby and **Randa M. Alarousy** (2008): Molecular Biological Studies on Egyptian Isolates of *Cryptococcus neoformans*. Bull. Fac. Pharm. Cairo University, 46 (1), (special issue).

2011

- Kawkab A. Ahmed, Heidy Abo El Yazeed, Kotb H., Mona Elshabrawy, **Randa M. Alarousy** and Refai M. (2011): The Effect of Capsular Size of *C. neoformans* on Pathogenicity and Pathological Changes in Experimentally Infected Mice. J. American. Sci. 7(11):233-239.
- **Randa M. Alarousy**, Heidy Abo El Yazeed, Kotb H., Abdalla K. and Refai M. (2011): Amplification of Capsule-Associated Genes From *Cryptococcus neoformans*. New York Science Journal. 4(11):38-42.

2013

- Heidy Abo El-Yazeed, Mohamed Effat, Khaled Abdalla, Magdy Bakry, **Randa Alarousy** and Engy Farahat. (2013): Application of Molecular Techniques for Rapid Diagnosis of Dermatophytes Infection in Horses. Global Veterinaria.10 (3): 310-317.
- Nagwa J, Ata; **Randa M. Alarousy** and Mona S, Zaki: Mycotoxicosis in Animals and Fish (2013). Life Science J. 10 (1): 1133-1135.
- Nagwa J, Ata; **Randa M. Alarousy** and Mona S, Zaki: Mycotoxicosis in Animals and Fish (2013). Aquatic Ecology and Biotechnology, Chapter 5. Discovery Publishing House, PVT.LTD, ISBN 93-5056-451-3.
- Mohamed K. Aboulmagd, **Randa M. Alarousy**, Mostafa M. Eraqi and Doaa D. Khalaf. Incidence of Mycotoxins in Food Stuffs in the Markets (2013): Global Veterinaria 10 (6): 757-763, 2013 ISSN 1992-6197 © IDOSI Publications, 2013 DOI: 10.5829/idosi.gv.2013.757.763

2014

- M.K. Refai, **R. M. Alarousy**, M. D. El-Hariri: Monograph on *Cryptococcus* and cryptococcosis.

2015

- Hakim, A.S. and **Randa M. Alarousy**: Incidence of Fungal Infections and Mycotoxicosis in Pork Meat and Pork By-Products in Egyptian Markets. (2015). World Academy of Science, Engineering and Technology, 9: 1184-1187.

2016

- **Randa. M. Alarousi**, Sohad M. Dorgham¹, El-Kewaiey I. A., Amal A. Al-Said. Molecular Characterization of *Rhodotorula* Spp. Isolated From Poultry Meat. (2016). International Journal of ChemTech Research.,9 (5): 200-206.
- **Randa Mohamed Alarousy**, Sherein Ismail Abd El-Moez, Kawkab Ahmed Ahmed and Hany Mohamed Hassan.. *In Vivo* Study on the Hindrance Activity of Cinnamon Extract Against *Aspergillus niger* in Mice.(2016). International Journal of ChemTech Research.,9 (12): 962-972.

2017

- Mohamed K. Refai, Mahmoud El-Hariri and **Randa Alarousy**. Cryptococcosis in Animals and Birds: A Review.(2017). European Journal of Academic Essays 4 (8): 202-223.

2018

- **Randa M. Alarousy**, Mostafa. M. Eraqi and Doaa Khalaf. Pollution of Drinking Water in Different Localities in KSA. (2018). Int. J. Pharm. Sci. Rev. Res., 51(1): 166 – 172.
- **Randa M. Alarousy** and Mostafa M. Eraqi Hany H. Abd Elhamid and Johra Khan (2018): Antimicrobial Activity of the Essential Oil Extracted from Artemisia Annua. World Journal of Pharmaceutical Research. 7(18): 1402-1417.

2020

- Anamangadan Shafeeq Hassan, Annanthode Balakrishnan Sangeetha, Coimbatore Subramanian Shobana , Arumugam Mythili , Sreeram Suresh, Baskaran Abirami, Raed Abdullah Alharbi, Saleh Abdullah Aloyuni, Ahmed Abdel-hadi, Mohamed F. Awad, **Randa Mohamed Ismail**, Kanesan Panneer Selvam h and Palanisamy Manikandan. In-vitro assessment of first-line antifungal drugs against *Aspergillus* spp. caused human keratomycoses. (2020). Journal of Infection and Public Health 13 (2020) 1907–1911

2021

- Chandrabose Selvaraj, Gurudeeban Selvaraj, **Randa Mohamed Ismail**, Rajendran Vijayakumar ,Alaa Baazeem , Dong-Qing Wei and Sanjeev Kumar Singh. Interrogation of Bacillus anthracis SrtA active site loop forming open/close lid conformations through extensive MD simulations for understanding binding selectivity of SrtA inhibitors. (2021). Saudi Journal of Biological Sciences 28 (2021) 3650–3659. doi.org/10.1016/j.sjbs.2021.05.009
- Johra Khan*, Mithun Rudrapal, Eijaz Ahmed Bhat*, Ahmad Ali, Mohammad Alaidarous, Bader Alshehri, Saeed Banwas, **Randa Ismail** and Chukwuebuka Egbuna. (2021). Perspective Insights to Bio-Nanomaterials for the Treatment of Neurological Disorders (Review), Frontiers in Bioengineering and Biotechnology. doi: 10.3389/fbioe.2021.724158
- Mithun Rudrapal,* , Johra Khan, Abdul Aziz Bin Dukhyil,* , **Randa Mohammed Ibrahim Ismail Alarousy**, Emmanuel Ifeanyi Attah , Tripti Sharma , Shubham Jagdish Khairnar and Atul Rupchand Bendale. (2021). Chalcone Scaffolds, Bioprecursors of Flavonoids: Chemistry, Bioactivities, and Pharmacokinetics (Review). Molecules 26, 7177: 2-21. Molecules 2021. doi.org/10.3390/molecules26237177

Books:

1. Nagwa J, Ata; **Randa M. Alarousy** and Mona S, Zaki: Mycotoxicosis in Animals and Fish (2013). Aquatic Ecology and Biotechnology, Chapter 5. Discovery Publishing House, PVT.LTD, ISBN 93-5056-451-3.
2. **Randa M. Alarousy**: Molecular Biological Studies on *Cryptococcus Neoformans*. (2018). Scholars' Press, ISBN 978-620-2-31679-8.

- Excellent Computer Skills with MS Office (Word, Excel, Access, PowerPoint) Windows and Internet (ICDL).
- Excellent user of Desire To Learn (D2L) and Black Board (BB)

Languages

- Arabic: (Mother language).
- English: Fluent (Reading and Writing).
- TOEFL (IBT) preparing course. **AMIDEAST**, Egypt.
- Conversation courses (Intermediate level 2), **British Council**, Agozza, Egypt.

Interests

- Scientific Research, Learning; Teaching; Traveling; Supporting people and Occupational Improving.