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PERSONAL INFORMATION

Full name	Naiera Medhat Zayed
Date of birth	11-09-1988
Nationality	Egyptian
E-mail	✉ naiera.zayed@phrm.menofia.edu.eg
Current job	- Assistant lecturer (staff member) at Department of Pharmaceutical Microbiology and Immunology, Faculty of Pharmacy, Menoufia University, Egypt.

EDUCATION AND TRAINING**1- Education**

From 09-2005 to 7-2010	- Undergraduate student, Faculty of Pharmacy, Tanta University, Egypt; Bachelor of Pharmaceutical Sciences (Excellent with honour).
From 10-2012 to 08-2013	- Studying the general & speciality graduate-course requirements for the Master of Science Degree in Pharmaceutical Sciences.
From 10-2013 to 10-2016	- Research work on master's degree thesis entitled "Bacteriological and Molecular Studies on Viridans Streptococci Isolated from Patients Suffering from Odontogenic Diseases" . Defended on 20-10-2016.
From 03-2019 till present	- PhD student at laboratory of oral biology, department of Oral Health Sciences, KU Leuven.

2- Training

From 07-2008 to 10-2008	- Trainee at El-Gamal pharmacy, Shebein El-Kom, Egypt.
From 07-2009 to 10-2009	- Internship at National Liver Institute, Menoufia University, Egypt. - Trainee at El-Gamal pharmacy, Shebein El-Kom, Egypt.
From 07-2010 to 10-2010	- Trainee at CID pharmaceuticals factory, Cairo, Egypt. - Trainee at El-Gamal pharmacy, Shebein El-Kom, Egypt.
From 10-2010 to 04-2011	- Internship at Department of Pharmaceutical Microbiology & Immunology, Faculty of Pharmacy, Tanta university.

WORK EXPERIENCE

From 05-2011 to 10-2016	- Demonstrator and researcher at Pharmaceutical Microbiology & Immunology Department, Faculty of Pharmacy, Tanta University, Tanta, Egypt.
From 11-2016 till present	- Assistant lecturer at Pharmaceutical Microbiology & Immunology Department, Faculty of Pharmacy, Tanta University, Egypt.
	<p><u>Main activities and responsibilities:</u></p> <ul style="list-style-type: none"> - <u>As a demonstrator and assistant lecturer:</u> Responsible for the practical courses for undergraduate students, conducting lab activities and quizzes for student groups, evaluating students' workload and giving marks and conducting students' practical examinations along with the final evaluation. - <u>As a researcher:</u> Responsible for conducting researches individually and/or in a team. Running experiments for my Master and PhD research.

PERSONAL SKILLS

Mother tongue(s):	Arabic			
Other language(s):				
1- English	IELTS			
	LISTENING	READING	SPEAKING	WRITING
	7	8.5	6	6
	Overall score: 7			

Communication skills	- My experience as a demonstrator and then as an assistant lecturer responsible for the lab courses for undergraduate students helped me to gain good communication skills. This gives a chance to deal and communicate with a variety of students of different practical skills and problems and lead every student individually according to his/her learning capacity.
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Organizational skills	<ul style="list-style-type: none"> - Responsibility for conducting the lab courses for the undergraduate student groups, organizing their work steps and groups leading them to the teamwork concept to complete each other's work to reach the final right result, guiding them to avoid different stumbles and finally conducting the practical exams for them and evaluating exams results. - Conducting summer training courses for outstanding student groups interested in microbiology (NERD groups) to guide them through basic research techniques of microbiology.
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	<ul style="list-style-type: none"> - Conducting the office and paperwork of “Quality Assurance Unit” of faculty of pharmacy, Tanta University, Egypt, which then enforced my management skills. It also increased my skills in untangling different types of questionnaires and analyse the data statistically.
Job-related skills	<ul style="list-style-type: none"> - As a demonstrator and assistant lecturer: dealing with students of different skills, ideas and attitudes improved my skills to handle different and sudden lab situations, to accept all different attitudes respectfully, trying to approximate between them and provide an environment suitable for different perspectives. - As a researcher: working in research field improved my problem-solving skills as well as creativity. It enriched my analytical review of different subjects. In addition, working together with colleagues and professors in teams even from different departments provides a broader experience.

ADDITIONAL INFORMATION

List of publications	<ul style="list-style-type: none"> - "Health awareness campaign. Telehealth and telemedicine effect in facing HCV burden in Egypt" poster presentation in "Pharmacists against virus C" conference, Alexandria, Egypt, April 2015. - "Antimicrobial effect of sodium fluoride and eugenol on resistant streptococci isolated from dental caries" poster presentation in the 4th international conference of the Egyptian section of International Association of Dental Research (IADR), Cairo, Egypt, April 2015. - "Antibiotic resistance in Viridans Streptococci isolated from odontogenic infections in Tanta University Dental Clinic, Egypt" oral presentation in the 5th international conference of the Arab Society for Medical Research, Sharm El-Sheikh, Egypt, October 2016. - El-Banna, TE, Sonbol, FI, Abd El-Aziz, AA and Zayed, NM. (2016): "Antibiotics Resistance in Viridans Streptococci Isolated from Odontogenic Infections in Tanta University Clinic, Egypt." Nat & Sci, 14(8):151-158.- DOI 10.7537/marsnsj140816.21 - Van Holm W, Ghesquière J, Boon N, Verspecht T, Bernaerts K, Zayed N, Chatzigiannidou I, Teughels W. "A viability qPCR dilemma: Are longer amplicons better?" Applied and Environmental Microbiology. 2020 Dec 23- DOI 10.1128/AEM.02653-20 - Tim Verspecht, Wannes Van Holm, Nico Boon, Kristel Bernaerts, Carlo A Daep, James G Masters, Naiera Zayed, Marc Quirynen & Wim Teughels (2021) Potential prebiotic substrates modulate composition, metabolism, virulence and inflammatory potential of an in vitro multi-species oral biofilm, Journal of Oral Microbiology, 13:1, DOI: 10.1080/20002297.2021.1910462 - Verspecht, T., Vermeulen, D., Van Holm, W., Zayed, N., Bernaerts, K., Boon, N., & Teughels, W. (2021). In Vitro Multi-Species Oral Biofilms Grown in Presence of H2O2 Production-Affecting Substrates Show Health-Associated
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	Alterations in Composition, Metabolism and Virulence, DOI: 10.21203/rs.3.rs-568968/v1
Projects	<ul style="list-style-type: none"> - Students' supervisor in "HCV fighters" national project team in Tanta university against HCV spread in Egypt via elevating awareness level and widespread screening campaign, Tanta University. - Vice president in "HCV fighters" national project against HCV spread in Egypt via elevating awareness level and widespread screening campaign, Menoufia University. - Researcher in scientific projects of Pharmaceutical Microbiology & Immunology department: <ol style="list-style-type: none"> i) Assessing the antimicrobial effect of honey and honey products against resistant pathogens. ii) Investigation of the different bacterial communities on surface of contact lenses. iii) Effect of different growth factors on proliferation of cells in tissue cultures. iv) Detection of pathogen-specific immunological signatures in patients with acute febrile lower respiratory tract infections. v) Epidemiological studies on <i>Campylobacter jejuni</i> isolates in Egyptian Universities hospitals.
Seminars	<ul style="list-style-type: none"> - Conducted "Antibiotic susceptibility technique" & "Quorum sensing in bacterial communication" seminars during master's degree special courses, evaluated with very good grade.
Honours & awards	<ul style="list-style-type: none"> - "Pharmaceutical Microbiology & Immunology Department award" for outstanding undergraduate students. "The highest grades in department courses in class 2010" - "Egyptian Pharmacists syndicate award" for outstanding students, 2011.
Developmental Courses	<ul style="list-style-type: none"> - Future of stem cells workshop. - RT-PCR workshop. - Techniques of tissue culture workshop. - International Publishing of Research. - Research Ethics. - Effective Presentation. - EndNote. - Strategic Planning. - Time and Conferences Management. - Quality Standards of Teaching.

Skills and Competencies	<p><u>Microbiological skills:</u></p> <ul style="list-style-type: none"> - Achieve the aseptic sterile environment for experiments, testing the efficacy of sterilization, different sterilization techniques, preservation of commercial products (drugs, cosmetics, food) ,bacterial staining then
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	<p>investigating through optical microscopy, identification of parasites, microscopically different plating and isolation methods (streak, spread, pour), biochemical identification of the isolates, enumeration of bacteria, culture media and buffer preparation, use of selective and differential media, different conditions of incubation (aerobic, anaerobic), use of biological safety cabinets, infection control, diagnostic tools, immunology & serology, water sample analysis by membrane filtration, food microbiology, diagnostic biochemical tests, chemotherapeutics for infections, parasites diagnosis and chemotherapy, clinical microbiological diagnosis and treatment, bacterial serotyping, biofilm detection and quorum sensing, antibiotic sensitivity testing (MIC, disk diffusion) and biotechnological use of bacteria in industry.</p> <ul style="list-style-type: none"> - Following the abovementioned courses, the Master thesis came through, during which I have developed additional competencies and learned over-and-above in-depth research techniques related to microbiology and cellular and molecular biology. For example, testing the antimicrobial effect of natural agents and synthetic non-antibiotics, testing the antimicrobial effect of combinations between antibiotics and non-antibiotics and determination of either synergism, antagonism or indifference, cell fractionation by differential centrifugation, DNA extraction, plasmid DNA preparation, fluorescent labelling of proteins, restriction enzyme digests, PCR, agarose gel electrophoresis, SDS-PAGE and flow cytometry.
	<p><u>Chemistry skills:</u></p> <ul style="list-style-type: none"> - Include solutions preparation, solubility tests, recrystallization, titrations, extractions, filtrations, separations, simple and fractional distillation, melting point and boiling point determination, freezing point depression, determination of index of refraction and simple syntheses.
	<p><u>Analytical chemistry skills:</u></p> <ul style="list-style-type: none"> - Ranges from simple titrations to spectrophotometric assay, GC, HPLC and IR spectroscopy.
	<p><u>Computer skills:</u></p> <ul style="list-style-type: none"> - I developed many skills through studying the pre-master courses. They include extensive use of Word, Excel, Access and PowerPoint for Macintosh and PC platforms, professional typing and PubMed.
	<p><u>Statistical skills:</u></p> <ul style="list-style-type: none"> - Use of SPSS, Prism and R data analysis software.