

Mostafa Nasr Taha Ahmed



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pharm_mostafa@yahoo.com

Lecturer of Microbiology and Immunology

EDUCATION

PhD | Microbiology and Immunology Department, Faculty of Pharmacy, Beni-Suef University. **Nov. 2014 – Jul. 2019**

- **Dissertation:** "Screening for quorum-sensing inhibitor(s) that can control biofilm formation and virulence factors of *Pseudomonas aeruginosa*"

M.Sc | Microbiology and Immunology Department, Faculty of Pharmacy, Beni-Suef University. **Oct. 2008 – Dec. 2013**

- **Dissertation:** "Detection of some genes of β -Lactamases produced by *Staphylococcus aureus*"

Bachelor's degree | Pharmaceutical Sciences, Faculty of Pharmacy, Beni-Suef University. **Sep. 2002 – May 2007**
Grade: Excellent with honor degree (86.35%).

WORK EXPERIENCE

Manager of Quality Assurance and Accreditation Unit, Faculty of Pharmacy, Nahda University in Beni-Suef (NUB). **Oct. 2024 – Present**

Acting Head of Microbiology and Immunology Department, Faculty of Pharmacy, Nahda University in Beni-Suef (NUB). **Sep. 2023 – Present**

Vice Manager of Quality Assurance and Accreditation Unit, Faculty of Pharmacy, Nahda University in Beni-Suef (NUB). **May 2023 – Sep 2024**

General Supervisor | Molecular biology unit (MBU), Faculty of Pharmacy, Nahda University in Beni-Suef (NUB) **Dec. 2020 – Aug. 2024**

Lecturer | Microbiology and Immunology Department, Faculty of Pharmacy, Nahda University in Beni-Suef (NUB) for the following courses: **Sep. 2019 – Present**

- General Microbiology and Immunology
- Parasitology
- Pharmaceutical Microbiology
- Clinical Microbiology
- Pharmaceutical Biotechnology
- Public Health and Preventive Medicine

Assistant Lecturer| Microbiology and Immunology Department, Faculty of Pharmacy,

Nahda University in Beni-Suef (NUB) for the following courses:

Jan. 2014 – Aug. 2019

- Practical General Microbiology and Immunology
- Practical Parasitology
- Practical Pharmaceutical Microbiology
- Practical Clinical Microbiology
- Practical Pharmaceutical Biotechnology

Demonstrator| Microbiology and Immunology Department, Faculty of Pharmacy, Nahda

University in Beni-Suef (NUB) for the following courses:

Sep. 2008 – Dec. 2013

- Practical General Microbiology and Immunology
- Practical Pharmaceutical Microbiology
- Practical Clinical Microbiology
- Practical Pharmaceutical Biotechnology

PUBLICATIONS

Sultan Aati, Hanan Y. Aati, Ahmed A. Hamed, Sherine El-Shamy, Shahad H. Aati, Usama Ramadan Abdelmohsen, Gerhard Bringmann, **Mostafa N. Taha**, Hossam M. Hassan and Hebatallah S. Bahr (2025) **Gold nanoparticles synthesized from soil-derived *Streptomyces* sp. ASM19: characterization, antimicrobial, anticancer potency targeted G2/M phase cell-cycle arrest, and *in silico* studies**, *RSC Advances*, **15**(5), 3954-3968.

Jan. 2025

Hani A. Alhadrami, Ahmed M. Sayed, Hossam M. Hassan, Mostafa E. Rateb, **Mostafa N. Taha** (2025) **Optimized peptide inhibitor Aqs1C targets LasR to disrupt quorum sensing and biofilm formation in *Pseudomonas aeruginosa*: Insights from MD simulations and *in vitro* studies**, *International Journal of Biological Macromolecules*, **300**, 140119.

Jan. 2025

Esraa Z. Mohammed, Nehad M. El-Dydamony, Enas A. Taha, **Mostafa N. Taha**, Ahmed B.M. Mehany, Hatem A. Abdel Aziz, Rehab H. Abd El-Aleam (2024) **Design, synthesis, and molecular dynamic simulations of some novel benzo[d]thiazoles with anti-virulence activity against *Pseudomonas aeruginosa***, *European Journal of Medicinal Chemistry*, **279**, 116880

Sep. 2024

Ahlam Alasiri, Raya Soltane, **Mostafa N. Taha**, Rehab H. Abd El-Aleam, Fatma Alshehri, Ahmed M. Sayed (2024) **Bakuchiol inhibits *Pseudomonas aeruginosa*'s quorum sensing-dependent biofilm formation by selectively inhibiting its transcriptional activator protein LasR**, *International Journal of Biological Macromolecules*, **255**, 128025.

Jan. 2024

Raya Soltane, Ahlam Alasiri, **Mostafa N. Taha**, Rehab H. Abd El-Aleam, Kawthar Saad Alghamdi, Mosad A. Ghareeb, Doaa Elghareeb Keshek, Susana M. Cardoso, Ahmed M. Sayed (2023) **Norlobaridone inhibits quorum sensing-dependent biofilm formation and some virulence factors in *Pseudomonas aeruginosa* by disrupting its transcriptional activator protein LasR dimerization**, *Biomolecules*, **13**(11), 1573.

Oct. 2023

- Rehab H. Abd El-Aleam, Ahmed M. Sayed, **Mostafa N. Taha**, Riham F. George, Hanan H. Georgey, Hamdy M. Abdel-Rahman (2023) **New benzimidazole derivatives targeting LasR with antibiofilm efficacy against *Pseudomonas aeruginosa*: An integrated in vitro and molecular dynamics simulation-based investigation**, *Journal of Molecular Structure*, **1277**, 134856. Apr. 2023
- Rehab H. Abd El-Aleam, Ahmed M. Sayed, **Mostafa N. Taha**, Riham F. George, Hanan H. Georgey, Hamdy M. Abdel-Rahman (2022) **Design and synthesis of novel benzimidazole derivatives as potential *Pseudomonas aeruginosa* anti-biofilm agents inhibiting LasR: Evidence from comprehensive molecular dynamics simulation and in vitro investigation**, *European Journal of Medicinal Chemistry*, **241**, 114629. Nov. 2022
- Ehab M. Mostafa, Mohamed A. Abdelgawad, Arafa Musa, Nasser Haldol Alotaibi, Mohammed H. Elkomy, Mohammed M. Ghoneim, Mona Shaban E. M. Badawy, **Mostafa N. Taha**, Hossam M. Hassan, and Ahmed A. Hamed (2022) **Chitosan Silver and Gold Nanoparticle Formation Using Endophytic Fungi as Powerful Antimicrobial and Anti-Biofilm Potentialities**. *Antibiotics*, **11**(5), 668. May 2022
- Mostafa N. Taha**, Amal E. Saafan, A. Ahmedy, Eman El Gebaly, and Ahmed S. Khairalla (2019). **Two novel synthetic peptides inhibit quorum sensing-dependent biofilm formation and some virulence factors in *Pseudomonas aeruginosa* PAO1**. *Journal of Microbiology*, **57**, 618-625. July 2019
- Sameh M. AbdelGhani, Khaled H. Abd El Galil, **Mostafa N. Taha**, and Wael A. El-Naggar (2013). **Phenotypic and genotypic detection of β lactamase produced by clinical *Staphylococcus aureus* isolates**. *New Egyptian Journal of Microbiology*, **36**, 136-151. Sep. 2013

PUBLISHED PAPERS

- Number total citations: 87
- Number of publications: 10
- Number of cited publications: 7
- H. index: 5

ONLINE PROFILES

-ORCID account: Mostafa N. Taha <https://orcid.org/my-orcid?orcid=0000-0001-7264-1681>

-Scopus profile link: <https://www.scopus.com/authid/detail.uri?authorId=57209531471>

-Google scholar profile:

https://scholar.google.com/citations?user=chuyU_wAAAAJ&hl=en

-Research gate account: <https://www.researchgate.net/profile/Mostafa-Taha-10/publications?sorting=recentlyAdded&editMode=1>

SUPERVISING ACTIVITIES

Supervisor for master's degree student at Microbiology and Immunology Department, Faculty of Pharmacy, Beni-Suef University, Egypt. (Anti-virulence agents as potential inhibitors to target clinical isolates of *Klebsiella* spp.)

Sep. 2022- Present

CONFERENCES

NUB 4th Scientific Conference; "**Health Care-Egypt Vision**" at Faculty of Pharmacy, Nahda University.

- Participated by a poster entitled "Bakuchiol inhibits *Pseudomonas aeruginosa*'s quorum sensing-dependent biofilm formation by selectively inhibiting its transcriptional activator protein LasR"

22nd & 23rd Oct. 2024

Second International Scientific Conference "**Recent Advances in Pharmaceutical Practice and Research**" at Faculty of Pharmacy, 6-October University.

- Participated by a poster entitled "Novel benzothiazole derivatives targeting LasR with antibiofilm efficacy against *Pseudomonas aeruginosa*, An integrated in vitro and molecular dynamics simulation –based investigation"

1 May 2024

11th International Scientific Conference On "**Authenticity for Excellence in Pharmacy (Egypt Healthcare Vision 2030)**" at Faculty of Pharmacy, Cairo University.

14th & 15th May 2023

2nd International Conference & Exhibition On "**Pharmaceutical and Health Care Sciences**" at Faculty of Pharmacy, Alexandria University.

23rd & 24th Nov. 2022

XXXVI International scientific conference of pharmaceutical sciences; "**The future of pharmaceutical industry in Egypt**" organized by Egyptian Pharmaceutical Society at Faculty of Pharmacy, Future University.

21st May 2022

First International Conference on Pharmaceutical and Bio-medical Research; "**New Horizons in Pharmaceutical Sciences**" at Faculty of Pharmacy, Sinai University.

20th & 21st Mar. 2022

Third International Conference of Scientific Research in Pharmacy; "**New Trends in Pharmaceutical sciences**" at Faculty of Pharmacy, Nahda University.

- Participated by a poster entitled "Effect of *Ricinus communis* seeds extract and Garlic juice on quorum sensing dependent biofilm formation and some virulence factors in *Pseudomonas aeruginosa* PAO1"

1st & 2nd Mar. 2022

First International Pharmaceutical Conference of Scientific Research in Pharmacy; "**New Challenges in Pharmaceutical Research & Education in Egypt**" at Faculty of Pharmacy, Pharmaceutical Manufacturing, Deraya University.

15th & 16th Feb. 2021

Second Conference of Scientific Research in Pharmacy; "**Future Insights**" at Faculty of Pharmacy, Nahda University.

- Participated by a poster entitled "Effect of *Anethum graveolens* seeds extract on biofilm formation and virulence factors production by *Pseudomonas aeruginosa* PAO1" **11th & 12th Mar. 2019**

First Conference of Scientific Research in Pharmacy; "**Future Insights**" at Faculty of Pharmacy, Nahda University.

6th & 7th Mar. 2018

"**6th SCITA Biofans Conference**", Conferences Hall Kasr El Aini, hosted by SCITA team. **1st & 2nd Feb. 2017**

"**5th SCITA Biofans Conference**", Conferences Hall Kasr El Aini, hosted by SCITA team. **1st & 2nd Feb. 2016**

"**Biotechnology for the emerging economies**" Conference, hosted by Microbiology and Immunology Department, Faculty of Pharmacy, BeniSuef University.

7th Apr. 2015

COURSES and WORKSHOPS

"**Competency Based Program/Course Specifications for Pharmacy Specialty**" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (**NAQAEE**).

22nd - 24th Feb. 2025

"**Program/Course Specifications and Assessment of ILOs: Faculties and Institutes of Higher Education**" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (**NAQAEE**).

15th - 17th Oct. 2024

"**Research ethics**" hosted by Faculty and Leadership Development Center, Cairo University (**FLDC**).

26th - 27th Aug. 2024

"**Anti-Corruption Methods**" hosted by Faculty and Leadership Development Center, Cairo University (**FLDC**).

29th - 30th Jul. 2024

"**The art of effective leadership**" hosted by Faculty and Leadership Development Center, Cairo University (**FLDC**).

27th - 28th Jul. 2024

"**External Review: Faculties and Institutes of Higher Education**" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (**NAQAEE**).

7th - 9th May 2024

"**Exams and Students' Assessment Systems: Faculties and Institutes of Higher Education**" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (**NAQAEE**).

8th & 9th Oct. 2023

"**Teaching Strategies and Effective Learning**" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (**NAQAEE**).

4th & 5th Oct. 2023

"Self-Evaluation" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (NAQAAE). *24th - 26th Sep. 2023*

"Strategic Planning" hosted by National Authority for Quality Assurance and Accreditation of Education, Egypt (NAQAAE). *20th & 21st Sep. 2023*

STDF Nature Research Academies workshop "Impressive Academic Presentations" in Collaboration with Egyptian Knowledge Bank (EKB). *20th Sep. 2023*

STDF Nature Research Academies workshop "Research Methodology" in Collaboration with Egyptian Knowledge Bank (EKB). *22nd Jan. 2023*

STDF Nature Research Academies workshop "Writing A Research Paper" in Collaboration with Egyptian Knowledge Bank (EKB). *15th Jan. 2023*

STDF Nature Research Academies workshop "Grant Writing" in Collaboration with Egyptian Knowledge Bank (EKB). *4th Jan. 2023*

"Bioinformatics and Predictive Modeling in the Realm of Personalized Medicine" hosted by Faculty of Pharmacy, Nahda University. *20th Dec. 2022*

"Best Practice Scientific writing and Publishing workshop", hosted by American Society of Microbiology. *31st Jul. 2022*

"Bioinformatics workshop", hosted by SCITA team. *3rd & 4th Feb. 2017*

Completed the requirements for the **"Pharmacy Oncology Symposium"**, hosted by ST. JOHN'S University College of Pharmacy and Health Sciences. *25th Jul. 2016*

The Bioskill II **"Techniques of DNA isolation & analysis"** workshop, hosted by Zewail City for Science and Technology. *30th Mar. – 1st Apr. 2015*

Medical Representative training program hosted by Pfizer Company. *12th – 24th Aug. 2006*

Training program on **Quality control** hosted by VACSERA Company. *16th – 27th Jul. 2006*

Training program on **Quality control** and production department hosted by MEMPHIS Company. *1st – 15th Jul. 2006*

Student Skills Development Program (SSDP), Certified by Novartis company. (Including Interview skills, Skills orientation about pharmacist on Counter and personal soft skills (Self-confidence)) *Apr. 2006*

Student Skills Development Program (SSDP), Certified by Bristol Myers Squibb Company (Including introduction to the pharmaceutical market and Egyptian Career Path). *Apr. 2005*

AWARDS

Honor celebration from Faculty of Pharmacy, Nahda University in Beni Suef (NUB) for the outstanding performance for publishing international papers during the academic year 2021-2022.

Aug. 2022

Honor celebration at the Third International Conference of Scientific Research in Pharmacy hosted by Faculty of Pharmacy, Nahda University in Beni-Suef (NUB) for the outstanding performance and effective contribution to the faculty.

Mar. 2022

Honor celebration of high model Teaching assistants, hosted by Prof. Dr. Dalal abo Elela, Vice-President of Nahda University in Beni-Suef (NUB).

Dec. 2016

Honor celebration of high model demonstrators, hosted by Prof. Dr. Seddik Afifi, President of Nahda University in Beni-Suef (NUB).

Dec. 2012

LANGUAGES

Arabic: Native

English: Passed the "TOEFL" test with an overall score of (567).

COMPUTER and PROGRAM SKILLS

Hold the International Computer Driving License "ICDL".

Graphpad prism® 6: used for carrying out many statistical tests and graphs.

SKILLS

Teaching - PCR - Medical Microbiology - Commitment - Research

Adaptability - Collaboration - Commitment - Course Administration

Community Engagement - Virulence factors - Precision - Quorum sensing - Focused