

Nid'a H. H. Al-sharaiedeh



Personal information

Name: Nid'a Hamdan Hamad Al-sharaiedeh
Home address: Albatrwi, New Zarqa, Az zarqa, Jordan
Phone: (+962)2-7201000 Ext: 26130
Work address:
Jordan University of Science and Technology
Department of Pharmaceutical Technology
P.O.Box: 3030
Irbid 22110, Jordan
Email: nhalshraiedeh@just.edu.jo

Researcher Profiles and Professional Identifiers

- **JUST professional page:**
<https://www.just.edu.jo/eportfolio/Pages/Default.aspx?email=nhalshraiedeh>
- **Google Scholar:** Nid'a Alshraiedeh
<https://scholar.google.be/citations?user=mC9MeLgAAAAJ&hl=fr>
- **Research Gate:** Nid'a Alshraiedeh
<https://www.researchgate.net/profile/Nida-Alshraiedeh-2>
- **ORCID ID:** Nid'a Alshraiedeh
<https://orcid.org/0000-0002-4366-8532>

Education and Training

Education:

- Doctor of Philosophy (Ph.D.) in Pharmaceutical Microbiology, Queen's University Belfast, UK, June 2015.
- Doctor of Pharmacy (Pharm-D), Jordan University of science and technology, Jordan, June 2009.

Training:

- Drug information center (Certificate for excellence in training Award), Amman.
 - Community pharmacy training in community pharmacies, Mafraq.
 - Clinical pharmacy training in the royal medical services, Jordan.
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Employment and Experience:

- Associate Professor, Pharmaceutical technology department, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan. (06/06/2023 – Present).
- Assistant Professor, Pharmaceutical technology department, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan. (17/08/2015 – 05/06/2023).
- Assistant Dean, Nanotechnology institute, Jordan University of Science and Technology, Irbid – Jordan. (29/09/2015–01/09/2018).
- Assistant Dean, School of Pharmacy, Jordan University of Science and Technology, Irbid – Jordan. (1/09/2015–25/09/2015).
- Assistant Professor, Pharmaceutical technology department, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan. (17/08/2015 – Present).
- Lecturer. Pharmaceutical technology department, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan. (29/06/2015-17/08/2015).
- Teaching Assistant, School of pharmacy, Queen's University Belfast, Belfast – UK. (Sep. 2012 - Jan. 2014).
- Pharmacist at community pharmacy, Almafraaq- Jordan. (Dec.2011-April.2012)
- Teaching and research assistant (Clinical cardiology), Jordan University of Science and Technology, Irbid – Jordan. (Sep.2009- Sep.2010)
- Teaching and research assistant (Pharmacy practice), Jordan University of Science and Technology, Irbid – Jordan. (Sep.2009- Sep.2010)

Research Interests

- Evaluation of novel sterilization methods.
- Use of Non-thermal atmospheric pressure plasma (APNTP)
- Antimicrobial resistance
- Pharmacy practice related to antimicrobial agents.
- Identification of novel antimicrobial agents from natural sources.

Academic Teaching and supervision

Teaching Experience

Graduate courses at Department of pharmaceutical technology, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan

- Phar 701 Instrumental Analysis
- Phar 747 Pharmaceutical Microbiology

Undergraduate courses at Department of pharmaceutical technology, School of pharmacy, Jordan University of Science and Technology, Irbid – Jordan

- Phar 401 Community Pharmacy
 - Phar 453 Pharmaceutical Microbiology
 - Phar 460 Pharmaceutical Biotechnology
 - Phar 573 Advanced Pharmaceutical Technology
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- Phar 252 Parasitology

Academic supervision and Master thesis committee

- **Major Advisor/ M.Sc. in pharmaceutical technology** , Characterization and antimicrobial Susceptibility pattern of bacteria isolated from blood samples for patients in king Abdullah university hospital (Nov, 2020) by Majd Alzedan
 - **Major Advisor/ M.Sc. in pharmaceutical technology** , Characterization and antimicrobial susceptibility patterns of bacteria isolated from human urine. (Nov,2020) by Enas Alrafayah
 - **Major Advisor/ M.Sc. in pharmaceutical technology** , Enhancement of antimicrobial activity of herbal extracts against *Pseudomonas aeruginosa* by antibiotic, vitamin C, metal salt and ethylenediaminetetraacetic acid (Jan,2021) by Toka Aghool
 - **Major Advisor / M.Sc. Clinical Microbiology Immunology and Serology**, Isolation and identification of bacteriophages infective for *Pseudomonas aeruginosa* including assessment of their suitability as therapeutic antimicrobials in vitro (Aug,2020) by Rasha Bani-salameh
 - **Co- Advisor/ M.Sc. in pharmaceutical technology**, The Development of Ultrashort Antimicrobial Peptide Nanoparticles with Potent Antimicrobial and Antibiofilm Activities against Multidrug Resistant Bacteria. (May,2017) by gubran mohammed
 - **Co- Advisor/ M.Sc. in pharmaceutical technology**, The design of highly potent ultrashort conjugated antimicrobial peptides against planktonic and biofilm forming methicillin-resistant *Staphylococcus aureus*. (July,2017) by Mohammad Qaoud
 - **Co- Advisor/ M.Sc of Public Health** , Quantitative assessment of Fluoride and microorganisms in different drinking water sources in Northern Jordan (June,2017) by Amer Abushakra .
 - **Internal Examiner/ M.Sc. in Clinical Microbiology Immunology and Serology**, Detection and characterization of carbapenem-resistant Enterobacteriaceae causing bacteremia in Jordan. (Aug, 2020) by Hadeel Al-Ghawrie
 - **Internal Examiner/ M.Sc. in Clinical Microbiology Immunology and Serology**, Biosynthesis Of Silver Nanoparticles From *Enterobacter aerogenes* As Effective Anti-Biofilm Agents Against Wounds And Skin Pathogens With Their Cytotoxicity And Genotoxicity Effects On Human Cells (Aug,2017) by Omar Amar.
 - **Internal Examiner/ M.Sc. in Natural Resources and Environment**, Identification, Characterization, and Microbial Susceptibility Tests for Different Soil Samples in Jordan.(June, 2021) by Mariam Zreagat
 - **Internal Examiner/ M.Sc. in pharmaceutical technology**, Evaluation of new peptides activity and toxicity on several types of bacteria. (12,2020) by Haneen Al-Shogran
 - **Internal Examiner/ M.Sc. in pharmaceutical technology**, Functional and Toxicological Evaluation of New Rationally Designed Antimicrobial Peptides. (Dec,2020) by Afnan Ayyad
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Conferences, Publications & Editorial Activities

Conference Contributions:

- UK-PharmSci Conference, Sep 2nd - 4th, 2013; Edinburgh, UK; Alshraideh H.N. , Alkawareek M.Y., Gorman S.P. , Graham W.G., Gilmore B.F.; Atmospheric pressure nonthermal plasma inactivation of MS2 bacteriophage: effect of oxygen concentration on virucidal activity ‘.(Poster).
- EUROBIOFILMS 2013, Third European Congress on Microbial Biofilms – Basic and Clinical Aspects; Sep 9-12, 2013; Ghent, Belgium; Alshraideh H.N. , Alkawareek M.Y., Gorman S.P. , Graham W.G., Gilmore B.F.; Non-Thermal Plasma for Control of P. aeruginosa Biofilms: Effect of Biofilm Components on Tolerance. (Poster)
- 2nd Young Professionals Workshop on Plasma-Medicine 2013, Sep 15th to 18th; Kölpinsee, Germany; Alshraideh H.N. , Alkawareek M.Y., Gorman S.P. , Graham W.G., Gilmore B.F.; Atmospheric pressure nonthermal plasma inactivation of MS2 bacteriophage: effect of oxygen concentration on virucidal activity. (Oral presentation)
- 5th International Conference on Plasma Medicine (ICPM5), May 18th – 23rd ,2014;Nara, Japan; Nid’a H. Alshraideh, Mahmoud Y. Alkawareek, Sean P. Gorman, William G. Graham, and Brendan F. Gilmore.; ‘Atmospheric Pressure, Non-Thermal Plasma for Control of P. aeruginosa Biofilms: Effect of Biofilm Components on Phenotypic Resistance‘.(Poster)
- UK-PharmSci Conference, Sep 8th - 10th, 2014; Hatfield,UK; Alshraideh H.N. , Alkawareek M.Y., Gorman S.P. , Graham W.G., Gilmore B.F.; ‘Effect of P. aeruginosa Biofilm Extracellular Components on Resistance to Atmospheric Pressure, Non-Thermal Plasma‘.(Poster).
- 4th Young Professionals Workshop on Plasma-Medicine, Sep 21th - 24th, 2015; Mecklenburg-Western Pomerania, Germany; Nida H. Alshraideh, Sarah Higginbotham, Padrig B. Flynn, Mahmoud Y. Alkawareek, Michael M. Tunney, Sean P. Gorman, William G. Graham, Brendan F. Gilmore.; Eradication and Phenotypic Tolerance of Burkholderia cenocepacia Biofilms Exposed to Atmospheric Pressure Non-Thermal Plasma. (Oral presentation)
- ASU-Pharmacy Third Conference- Recent Trends in Postgraduate Research (April 15-16th 2017). (Attendance)
- First International Conference on Current Nanotechnology and its Application (ICCNA - 2018) 10 - 12 April, 2018; Irbid, Jordan (Organizing committee)
- First scientific day of the Faculty of Pharmaceutical Sciences at the Hashemite University. 30 June 2022; Az Zarqa, Jordan (Attendance)
- Al-Zaytoonah International Pharmaceutical Conference 2022. 18-20 Oct, 2022; Amman, Jordan (Attendance)
- The Third Scientific Conference: Recent Trends in Pharmaceutical research “ Recent trend in pharmaceutical research” at the Yarmouk university . 9 May -10 May 2023; Irbid, Jordan (Attendance)
- The 5th International Conference of the Faculty of Pharmacy:"Multidisciplinary Pharmaceutical Research" at the Jordan university of science and technology; June 7th - 8th, 2023, Irbid, Jordan
- First pharmaceutical science conference “Exploring new frontiers in pharmaceutical sciences” at the Hashemite University. 25 April 2024; Az-Zarqa, Jordan (Attendance)

Publications

- **Alshraiedeh, N. H.**, Alkawareek, M. Y., Gorman, S. P., Graham, W. G., & Gilmore, B. F. (2013). Atmospheric pressure, nonthermal plasma inactivation of MS 2 bacteriophage: effect of oxygen concentration on virucidal activity. *Journal of applied microbiology*, 115(6), 1420-1426.
 - Alkawareek, M. Y., **Alshraiedeh, N. H.**, Higginbotham, S., Flynn, P. B., Algwari, Q. T., Gorman, S. P., ... & Gilmore, B. F. (2014). Plasmid DNA damage following exposure to atmospheric pressure nonthermal plasma: kinetics and influence of oxygen admixture. *Plasma Medicine*, 4(1-4).
 - McCrudden, M.T., Alkilani, A.Z., Courtenay, A.J., McCrudden, C.M., McCloskey, B., Walker, C., **Alshraiedeh, N.**, Lutton, R.E., Gilmore, B.F., Woolfson, A.D. and Donnelly, R.F., 2015. Considerations in the sterile manufacture of polymeric microneedle arrays. *Drug delivery and translational research*, 5(1), pp.3-14.
 - Flynn, P. B., Higginbotham, S., **Alshraiedeh, N.**, Gorman, S. P., Graham, W. G., & Gilmore, B. F. (2015). Bactericidal efficacy of atmospheric pressure non-thermal plasma (APNTP) against the ESKAPE pathogens. *International journal of antimicrobial agents*, 46(1), 101-107.
 - **Alshraiedeh, N.H.**, Higginbotham, S., Flynn, P.B., Alkawareek, M.Y., Tunney, M.M., Gorman, S.P., Graham, W.G. and Gilmore, B.F., 2016. Eradication and phenotypic tolerance of *Burkholderia cenocepacia* biofilms exposed to atmospheric pressure non-thermal plasma. *International journal of antimicrobial agents*, 47(6), pp.446-450.
 - Al-Fandi, M., **Alshraiedeh, N.**, Oweis, R., Alshdaifat, H., Al-Mahaseneh, O., Al-Tall, K., & Alawneh, R. (2017). Novel selective detection method of tumor angiogenesis factors using living nano-robots. *Sensors*, 17(7), 1580.
 - Al-Nemrawi, N. K., **Alshraiedeh, N. A. H.**, Zayed, A. L., & Altaani, B. M. (2018). Low molecular weight chitosan-coated PLGA nanoparticles for pulmonary delivery of tobramycin for cystic fibrosis. *Pharmaceuticals*, 11(1), 28.
 - Al-Fandi, M. G., **Alshraiedeh, N.** Oweis, R. J., Hayajneh, R. H., Alhamdan, I. R., Alabed, R. A., & Al-Rawi, O. F. (2018). Direct electrochemical bacterial sensor using ZnO nanorods disposable electrode. *Sensor Review*, 38(3), 326-334.
 - Al-Nemrawi, N. K., **Alshraiedeh, N. A. H.**, Zayed, A. L., & Altaani, B. M. (2018). Low molecular weight chitosan-coated PLGA nanoparticles for pulmonary delivery of tobramycin for cystic fibrosis. *Pharmaceuticals*, 11(1), 28.
 - Al-Nemrawi, N. K., Alkhatib, R. Q., Ayyad, H., & **Alshraiedeh, N.** (2022). Formulation and characterization of tobramycin-chitosan nanoparticles coated with zinc oxide nanoparticles. *Saudi Pharmaceutical Journal*, 30(4), 454-461.
 - Alsharedeh, R. H., **Alshraiedeh, N.**, Huwaitat, R., Alqatan, M., Esra'O, T., Alrosan, A. Z., & Heilat, G. B. (2022). Public perceptions of the COVID-19 Pandemic: A National Cross-sectional Study. *Research Journal of Pharmacy and Technology*, 15(9), 4119-4127.
 - **Alshraiedeh, N.**, Atawneh, F., Bani-Salameh, R., Alsharedeh, R., Al Tall, Y. & Alsaggar, M.. (2022) Identification and characterization of bacteria isolated from patients with cystic fibrosis in Jordan. *Annals of Medicine*, 54(1), 2796-2804.
 - **Alshraiedeh, N.**, Alzedan, M., Alsharedeh, R., Bani-Salameh, R., Masadeh, M., Atawneh, F., Alrafayah, E., & Zghoul, T. (2023). Identification and characterization of bacteria isolated from blood cultures at KAUH in Irbid, Jordan. *Journal of Applied Pharmaceutical Science*, 13(5), 144-154.
 - Alsharedeh, R. H., **Alshraiedeh, N.**, Bashatwah, R., & Huwaitat, R. (2022). Pharmacy students' overall knowledge and awareness regarding biofilms. *Journal of Advanced Pharmacy Education and Research*, 12(4-2022), 60-66.
 - Alsharedeh, R. H., Nid'a, H. A., Masadeh, M. M., Alzoubi, K. H., Al-Fandi, M. G., Hayajneh, R. H., ... & Shubair, Z. A. (2023). Biofilm formation by *E. coli* and *S.*
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aureus on cellphone cover: sensitivity to commercially available sanitizers. *Pharmacia*, 70(1), 181-186.

- Alsharedeh, R., **Alshraideh, N.**, Aljabali, A. A., & Tambuwala, M. M. (2024). Magnetosomes as Potential Nanocarriers for Cancer Treatment. *Current Drug Delivery*.

Reviewer Contribution to Editorial Processes of Scholarly Journals

- Jordan Journal of Pharmaceutical Sciences
- Journal of Medical Microbiology
- Journal of Applied Microbiology
- Archives of Microbiology
- Infectious Disorders - Drug Targets Journal
- Access Microbiology

Committees:

- 2021-2022: faculty Curriculum committee, Faculty of Pharmacy/JUST.
- 2020-2021: faculty safety committee, Faculty of Pharmacy/JUST.
- 2019-2020: Faculty Website Development Committee, Faculty of Pharmacy/JUST.
- 2019-2020: Faculty Community Service Committee, Faculty of Pharmacy/JUST.
- 2019-2020: the Regional Center for Infectious Diseases and Antibiotic Resistance, JUST.
- 2018-2019: Faculty Social Committee, Faculty of Pharmacy/JUST.
- 2018-2019: Faculty library Committee, Faculty of Pharmacy/JUST.
- 2017-2018: Accreditation Council for Pharmacy Education (ACPE) Faculty Subcommittee #1, Faculty of Pharmacy/JUST.
- 2017-2018: Faculty Course quality assurance Committee, Faculty of Pharmacy/JUST.
- 2017-2018: Faculty Course Equivalency Committee, Faculty of Pharmacy/JUST.
- 2017- 2018: Faculty Social Committee, Faculty of Pharmacy/JUST.
- 2016- 2017: Faculty Laboratory and Supplies Committee, Faculty of Pharmacy/JUST.
- 2016-2017: Central laboratory committee ,Nanotechnology institute/JUST
- 2015-2016: Faculty Social Committee, Faculty of Pharmacy/JUST.
- 2015-2016: Faculty Course Equivalency Committee, Faculty of Pharmacy/JUST.
- 2015- 2016: Scientific, Cultural and Continuous Learning Committee, Faculty of pharmacy/JUST.

Professional memberships:

- Jordan Pharmacists Association.
- Albasiliah Women association for people with special needs.
- Jordanian Women's Union.

Academic Workshops

- **E-Learning: Open Education Resources**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan. (28/12/2015 -29/12/2015)



- **Statistical Data Analysis Using Minitab**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan. (03/01/2018 - 04/01/2018)
 - **Modern University Instructional Methods**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan. (07/06/2016 - 08/06/2016)
 - **Taylor and Francis How to get published author workshop**, Library, Jordan University of Science and Technology, Irbid, Jordan. (30/03/2017-30/03/2017)
 - **Designing Effective E-Learning**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan. (17/08/2022- 18/08/2022)
 - **Applying Quality Matters Rubric**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan. (24/08/2022- 25/08/2022)
 - **Training program in intellectual property, center of excellence for innovative projects**, Jordan University of Science and Technology, Irbid, Jordan. (27/08/2023- 30/08/2023)
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