

CURRICULUM VITAE

Samer Abulateefeh

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1. Personal Data

Date of Birth: 23/3/1982

Nationality: Jordanian

2. Education

- Ph.D. in Pharmacy, 2011, University of Nottingham, Nottingham, UK
- B.Sc. in Pharmacy, 2005, University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

Novel Thermo-Responsive Polymeric Nanoparticles for Cancer Therapy, University of Nottingham, Nottingham, UK

4. Employment

Academic Positions

- Professor, Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan
December 2019 – now



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- Associate Professor, Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan
December 2015 – December 2019
- Assistant Professor, Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan
June 2011 – December 2015

Administrative Positions

- Vice Dean for Development Affairs & Quality Assurance, School of Pharmacy, University of Jordan, September 2022- September 2023
- Assistant Dean for Student Affairs, School of Pharmacy, University of Jordan, September 2014- September 2016

5. Research Interests

- Synthesis and characterization of polymeric nanoparticles, microparticles and implants as long-acting drug delivery systems.
- Core-shell nano/microcapsules with tunable internal architectures as controlled release depots.
- Inorganic-organic hybrid nanostructures for biomedical applications.

6. Membership in Scientific Societies and Associations

- Jordan Association of Pharmacists (2005- Present).

9. Teaching Experience

• *Graduate Courses*

- Advanced Physical Pharmacy.
- Pharmaceutical Quality Assurance and Validation.

• *Undergraduate Courses*

- Physicochemical Principles of Pharmacy.
- Physical Pharmacy (Theory and Practical).
- Pharmaceutical Calculations and Compounding of Dosage Forms (Theory and Practical).
- Pharmaceutical Technology (Theory and Practical).
- Cosmetic Science.
- Seminar in Pharmaceutics and Pharmaceutical Technology.



- Pharmaceutics.
- Industrial Pharmacy.

10. Supervision of Graduate Research

- Majd Alrashdan (MSc; Principal Supervisor), “*Development and characterization of in situ forming biodegradable depots*”. School of Pharmacy, University of Jordan, 2021- 2022.
- Hiba Ali (MSc; Co-Supervisor), “*Implementation of machine learning techniques in designing a predictive model for characterizing PLGA nanoparticles*”. School of Pharmacy, University of Jordan, 2020- 2021.
- Raghad Abuhamdan (MSc; Principal Supervisor), “*The effect of varying polymer type, molecular weight, and functionalities on the formation, drug loading, and release kinetics of microcapsules*”. School of Pharmacy, University of Jordan, 2019- 2020.
- Bayan Al-Anati (MSc; Principal Supervisor), “*Synthesis and characterization of polyester microparticles as controlled drug delivery systems for hydrophilic drugs*”. School of Pharmacy, University of Jordan, 2018- 2019.
- Muna Hassan (MSc; Co-Supervisor), “*Formulation and characterization of combretastatin A4 loaded PLGA nanoparticles*”. School of Pharmacy, An Najah University- Palestine, 2017- 2018.

11. Grants

- Deanship of Academic Research, The University of Jordan, Principal Investigator, “*Polyester-Based in Situ Forming Implants/ Depots as Drug Delivery Systems*”. **2023-Present**; JD 17,400.
- Deanship of Academic Research, The University of Jordan, Co-Investigator, “*Development of sustained release micro/nanoparticles loaded with levothyroxine*”. **2019-Present**; JD 21,000.
- Deanship of Academic Research, The University of Jordan, Co-Investigator, “*Synergistic activity of silver nanoparticles and hydrogen peroxide against bacteria in planktonic and biofilm modes of growth*”. **2018-2020**; JD 15,000.



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- Deanship of Academic Research, The University of Jordan, Co-Investigator, “*Toxicity and cellular uptake of gold nanoparticles in renal tissues of rat kidney: The effect of nanoparticle’s physiochemical properties*”. **2018-2020**; JD 18,000.
- Scientific Research Support Fund, Ministry of Higher Education and Scientific Research, Jordan, Principal Investigator, “*Enhanced oral bioavailability of insulin using PLGA NPs: in vivo evaluation of toxicity and therapeutic effect*”. **2015-2018**; JD 38,370.
- Scientific Research Support Fund, Ministry of Higher Education and Scientific Research, Jordan, Co-Investigator, “*Polymeric nanoparticles with encapsulated gold nanoparticles: Towards sensitive quantification and visualization of pharmaceutical polymeric nanocarriers*”. **2015-2018**; JD 85,000.
- Deanship of Academic Research, The University of Jordan, Principal Investigator, “*Preparation of new thermo-responsive PLGA-polyether amine nanoparticles for drug delivery applications*”. **2015-2017**; JD 27,000.
- Deanship of Academic Research, The University of Jordan, Principal Investigator, “*Pharmaceutical nanotechnology for enhancing the oral bioavailability of bisphosphonates (BPs)-Osteoporosis agents*”. **2013-2015**; JD 10,000.
- Deanship of Academic Research, The University of Jordan, Co-Investigator, “*Targeting and ablation of metastatic esophageal cancer using gold nanotechnology*”. **2013-2015**; JD 17,000.

12. Membership of Committees

- Member of the Nanotechnology Center Board. University of Jordan, 2017-2022

13. Professional and Scientific Meetings

Participation in Scientific meetings

- S.R. Abulateefeh, Nano/microcapsules as controlled release systems. Oral presentation, *Jordan Nano-Symposium*, Amman, Jordan (2021).
- R.Z. Al Bakain, M.O. Taha, S.R. Abulateefeh, Synthesis of chitosan-lactate-phthalate and evaluation of the corresponding zinc-and aluminium-crosslinked



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beads as potential controlled release matrices. Poster presentation, *The 15th Congress of the European Society of Contraception and Reproductive Health*, Budapest, Hungary (2018).

- **S.R. Abulateefeh**, M.Y. Alkawareek, A.M. Alkilany, Tuning the internal core architecture of PLGA microcapsules for drug delivery applications. Poster presentation, *21st International Symposium on Microencapsulation*, Faro, Portugal (2017).
- B. Akkelah, S. Mansour, H. Amro, M.Y. Alkawareek, **S.R. Abulateefeh**, A.M. Alkilany. Determination of critical micelle concentration using contact angle measurements: A didactic lab. Poster presentation, *Al-Zaytoonah University of Jordan and The University of Toledo International Pharmaceutical Conference (ZTIPC 2017)*, Amman, Jordan (2017).
- D. Shalabi, B. Akkelah, A.K. Alhiary, S. Aburkayah, **S.R. Abulateefeh**, M.Y. Alkawareek, R. Abu-Zurayq, A.M. Alkilany. Adsorption of methylene blue onto activated charcoal prepared from Jordanian olive oil processing solid waste. Poster presentation, *Al-Zaytoonah University of Jordan and The University of Toledo International Pharmaceutical Conference (ZTIPC 2017)*, Amman, Jordan (2017).
- **S.R. Abulateefeh**, A.M. Alkilany, H.S. AlKhatib, K.M. Aiedeh, S.M. Abdelghany, Bisphosphonates-loaded nanoparticles: Comparison between different nano-formulations. Oral presentation, *World Drug Delivery Summit*, Houston, TX, USA (2015).
- **S.R. Abulateefeh**, Nanomedicines for cancer therapy. Oral presentation, *The 15th Scientific Congress of the Association of Pharmacy Colleges in the Arab World & The 3rd International Conference of the Faculty of Pharmacy at the University of Jordan*, Amman, Jordan (2012).
- **S.R. Abulateefeh**, J.W. Aylott, W.C. Chan, M.C. Garnett, B.R. Saunders, C. Alexander, Synthesis & characterization of novel thermo-responsive nanoparticles from biocompatible constituents. Oral presentation, *Polymeric Biomaterials Conference*, Reading, UK (2010).
- **S.R. Abulateefeh**, J.W. Aylott, W.C. Chan, M.C. Garnett, B.R. Saunders, C. Alexander, Responsive PLGA-b-(PPGMA-co-PEGMEMA) nanoparticles with



reversible and tunable thermal transitions. Poster presentation, *RSC/SCI Macro Group Young Researchers Meeting*, Nottingham, UK (2010).

- **S.R. Abulateefeh**, J.W. Aylott, W.C. Chan, M.C. Garnett, B.R. Saunders, C. Alexander, Novel thermo-responsive nanoparticles: Synthesis and drug loading aspects. Poster presentation, *8th International Symposium on Polymer Therapeutics: From Laboratory to Clinical Practice*, Valencia, Spain (2010).
- **S.R. Abulateefeh**, J.W. Aylott, W.C. Chan, M.C. Garnett, B.R. Saunders, C. Alexander, Smart colloids with thermal transitions. Poster presentation, *UK-PharmSci- The Science of Medicines*, Nottingham, UK (2010).

14. Publications

- Y. Al Thaher, Z.A. S. Abdelghany, **S.R. Abulateefeh**, pH-responsive LBL coated silica nanocarriers for controlled release of chlorhexidine. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 680 (2024) 132671.
- M. Alrashdan, Z.A. Shraideh, **S.R. Abulateefeh**, Optimizing formulation parameters for the development of carvedilol injectable in situ forming depots. *Pharmaceutical Development and Technology* 28 (2023) 865.
- **S.R. Abulateefeh**, Long-acting injectable PLGA/PLA depots for leuprolide acetate: successful translation from bench to clinic. *Drug Delivery and Translational Research* 13 (2023) 520.
- R.M. Abuhamdan, B.H. Al-Anati, Y. Al Thaher, Z.A. Shraideh, M.Y. Alkawareek, **S.R. Abulateefeh**, Aqueous Core Microcapsules as Potential Long-Acting Release Systems for Hydrophilic Drugs. *International Journal of Pharmaceutics* 606 (2021) 120926.
- A.N. Zaid, M. Hassan, N. Jaradat, M. Assali, R. Al-Abbassi, A. Alkilany, **S.R. Abulateefeh**, Formulation and characterization of combretastatin A4 loaded PLGA nanoparticles. *Materials Research Express* 6 (2019) 1250d7.
- M.Y. Alkawareek, A. Bahloul, **S.R. Abulateefeh**, A.M. Alkilany, Synergistic antibacterial activity of silver nanoparticles and hydrogen peroxide. *PLOS ONE* 14 (2019) e0220575.



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- A.M. Alkilany, S. Alsotari, M.Y. Alkawareek, **S.R. Abulateefeh**, Facile hydrophobication of glutathione-protected gold nanoclusters and encapsulation into poly(lactide-co-glycolide) nanocarriers. *Scientific Reports* 9 (2019) 11098.
- N. Abu-Khalaf, A.N. Zaid, N. Jaradat, A.M. Alkilany, **S.R. Abulateefeh**, R. Al Ramahi, M. Ghanem, Identification of substandard drug products using electronic tongue: Cefdinir suspension as a pilot example. *Drug Design, Development and Therapy* 13 (2019) 3249–3258.
- A.M. Alkilany, **S.R. Abulateefeh**, C.J. Murphy, Facile functionalization of gold nanoparticles with PLGA polymer brushes and efficient encapsulation into PLGA nanoparticles: Toward spatially precise bioimaging of polymeric nanoparticles. *Particle & Particle Systems Characterization* 36 (2019) 1800414.
- **S.R. Abulateefeh**, M.Y. Alkawareek, A.M. Alkilany, Tunable sustained release drug delivery system based on mononuclear aqueous core-polymer shell microcapsules. *International Journal of Pharmaceutics* 558 (2019) 291-298.
- **S.R. Abulateefeh**, G.K. Al-Adhami, M.Y. Alkawareek, A.M. Alkilany, Controlling the internal morphology of aqueous core-PLGA shell microcapsules: Promoting the internal phase separation via alcohol addition. *Pharmaceutical Development and Technology* 24 (2019): 671-679.
- M.Y. Alkawareek, B.M. Akkelah, S.M. Mansour, H.M. Amro, **S.R. Abulateefeh**, A.M. Alkilany, Simple experiment to determine surfactant critical micelle concentrations using contact-angle measurements. *Journal of Chemical Education* 95 (2018) 2227–2232.
- M.A. Hamaly, **S.R. Abulateefeh**, K.M. Al-Qaoud, A.M. Alkilany, Freeze-drying of monoclonal antibody-conjugated gold nanorods: Colloidal stability and biological activity. *International Journal of Pharmaceutics* 550 (2018) 269-277.
- **S.R. Abulateefeh**, M.Y. Alkawareek, F.R. Abdullah, A.M. Alkilany, Preparation of aqueous core-poly(d,l-lactide-co-glycolide) shell microcapsules with mononuclear cores by internal phase separation: Optimization of formulation parameters. *Journal of Pharmaceutical Sciences* 116 (2017) 1136-1142.



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- **S.R. Abulateefeh**, A.M. Alkilany, Synthesis and characterization of PLGA shell microcapsules containing aqueous cores prepared by internal phase separation. *AAPS PharmSciTech* 17 (2016) 891-897.
- R.Z. Al Bakain, **S.R. Abulateefeh**, M.O. Taha, Synthesis and characterization of chitosan-lactate-phthalate and evaluation of the corresponding zinc- and aluminium-crosslinked beads as potential controlled release matrices. *European Polymer Journal* 73 (2015) 402-412.
- **S.R. Abulateefeh**, M.O. Taha, Enhanced drug encapsulation and extended release profiles of calcium-alginate nanoparticles by using tannic acid as a bridging cross-linking agent. *Journal of microencapsulation* 32 (2015) 96-105.
- A.M. Alkilany, **S.R. Abulateefeh**, K.K. Mills, A.I. Bani Yaseen, M.A. Hamaly, H.S. Alkhatib, K.M Aiedeh, J.W. Stone, Colloidal Stability of Citrate and Mercaptoacetic Acid Capped Gold Nanoparticles upon Lyophilization: Effect of Capping Ligand Attachment and Type of Cryoprotectants. *Langmuir* 30 (2014) 13799-13808.
- **S.R. Abulateefeh**, M.A. Khanfar, R.Z. Al Bakain, M.O. Taha, Synthesis and characterization of new derivatives of alginic acid and evaluation of their iron(III)-crosslinked beads as potential controlled release matrices. *Pharmaceutical Development and Technology* 19 (2014) 856-867.
- R. Al-Otoum, **S.R. Abulateefeh**, M.O. Taha, Preparation of novel ionotropically crosslinked beads based on alginate-terephthalic acid composites as potential controlled release matrices. *Pharmazie* 69 (2014) 10-18.
- **S.R. Abulateefeh**, S.G. Spain, K.J. Thurecht, J.W. Aylott, W.C. Chan, M.C. Garnett, C. Alexander, Enhanced uptake of nanoparticle drug carriers via a thermoresponsive shell enhances cytotoxicity in a cancer cell line. *Biomaterials Science* 1 (2013) 434-442
- M. Soliman, R. Nasanit, **S.R. Abulateefeh**, S. Allen, M.C. Davies, S.S. Briggs, L.W. Seymour, J. A. Preece, A.M. Grabowska, S.A. Watson, C. Alexander, Multi-component synthetic polymers with viral-mimetic chemistry for nucleic acid delivery. *Molecular Pharmaceutics* 9 (2012) 1-13
- **S.R. Abulateefeh**, S.G. Spain, J.W. Aylott, W.C. Chan, M.C. Garnett, C. Alexander, Thermoresponsive polymer colloids for drug delivery and cancer therapy. *Macromolecular Bioscience* 11 (2011) 1722-1734
- **S.R. Abulateefeh**, A.O. Saeed, J.W. Aylott, W.C. Chan, M.C. Garnett, B.R. Saunders, C. Alexander, Facile synthesis of responsive nanoparticles with



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reversible, tunable and rapid thermal transitions from biocompatible constituents. *Chemical Communications* 40 (2009) 6068-6070