


UNIVERSITY OF SHARJAH
COLLEGE OF PHARMACY

Amjad Alhalaweh
FACULTY MEMBER CREDENTIALS



	First Name	Amjad
	Last Name	Alhalaweh
	Job Title	Assistant Professor
	Nationality	Swedish
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EDUCATIONAL BACKGROUND

From Recent to Older

From		To		
MM	YY	MM	YY	
Jun	2006	April	2012	Ph.D. in Health Sciences (Pharmaceutics) Luleå University of Technology, Luleå, Sweden, 2012.
Sep	2005	Jun	2006	Diploma in Pharmacognosy and Phytochemistry Damascus University, Damascus, Syria, 2008
Sep	1999	Feb	2004	Bachelor of Science in Pharmacy Al-Ahliyya Amman University, Amman, Jordan, 2004

PROFESSIONAL SUMMARY*From Recent to Older*

2023 – to date:	Assistant Professor, Department of Pharmaceutics and Pharmaceutical Technology, University of Sharjah, Sharjah, United Arab Emirates.
2023– to date:	Docent at Department of Pharmacy, Uppsala University, Uppsala, Sweden.
2020 –2023	Senior scientist (Technical and scientific lead), Q-linea, Uppsala, Sweden
2016 – 2020	Senior formulation scientist, Recipharm, Uppsala, Sweden
2015 –2016:	Researcher, Department of Pharmacy, Uppsala University, Uppsala, Sweden
2014 –2015:	Visiting scholar, Department of Industrial and Physical Pharmacy, Purdue University, Indiana, USA.
2013 –2014:	Visiting Researcher, Department of Pharmacy, Uppsala University, Uppsala, Sweden.
2009-2014	Teaching assistant, Luleå University of Technology, Luleå, Sweden.

PUBLICATIONS (SELECTED)*From Recent to Older*

YY	Selected publications
2024	Assessment of enhancing curcumin's solubility versus uptake on its anti-cancer efficacy. <i>Colloids and Surfaces B: Biointerfaces</i> , 242, 2024.
2022	Voices in Molecular Pharmaceutics: Meet Dr. Amjad Alhalaweh, a Scientist Developing More Rapid Diagnostic Tests for Bacterial Infections A Alhalaweh, <i>Molecular Pharmaceutics</i> 19 (2), 361-362.
2021	El Sayed, M., Alhalaweh, A. , & Bergström, C. A. (2021). Impact of Simulated Intestinal Fluids on Dissolution, Solution Chemistry, and Membrane Transport of Amorphous Multidrug Formulations. <i>Molecular Pharmaceutics</i> 18 (11), 4079-4089.
2020	El Sayed, M., Alhalaweh, A. , & Bergström, C. A. (2020). Insights into Dissolution and Solution Chemistry of Multidrug Formulations of Antihypertensive Drugs. <i>Molecular Pharmaceutics</i> , 17(10), 4018-4028.

2019	Alhalaweh, A., Alzghoul, A., & Bergström, C. A. (2019). Molecular Drivers of Crystallization Kinetics for Drugs in Supersaturated Aqueous Solutions. <i>Journal of pharmaceutical sciences</i> , 108(1), 252-259.
2018	Alhalaweh, A. (2018). High Throughput Screening of Excipients. <i>Pharmaceutical Technology</i> , 2, 23-24. Corresponding author
2016	Alhalaweh, A., Bergström, C. A., and Taylor, L. S. (2016). Compromised in vitro dissolution and membrane transport of multidrug amorphous formulations. <i>Journal of Controlled Release</i> , 229, 172-182.
2015	Alhalaweh, A., Alzghoul, A., Mahlin, D., Bergström, C.A.S. (2015). Physical stability of drugs after storage above and below the glass transition temperature: Relationship to glass-forming ability. <i>International journal of pharmaceutics</i> , 495 (1), 312-317. Corresponding author
2015	Shojaee,S., Nokhodchi, A., Cumming, I., Alhalaweh, A., Kaialy. W. (2015). Investigation of drug release from PEO tablet matrices in the presence of vitamin E as antioxidant. <i>Current drug delivery</i> , 12(5):591-599.
2015	Cho, W., Kim, M.K., Jung, M. K., Park, J., Cha, K.H., Kim, J.S., Park, H. J., Alhalaweh, A., Velaga P. S., Hwang S.J. (2015). Design of salmon calcitonin particles for nasal delivery using spray-drying and novel supercritical fluid-assisted spray-drying processes. <i>International journal of pharmaceutics</i> , 478 (1), 288–296.
2014	Alhalaweh, A., Alzghoul, A., Kaialy, W., Mahlin, D., Bergström, C.A.S. (2014). Computational prediction of glass-forming ability and crystallization tendencies of drug molecule. <i>Molecular pharmaceutics</i>, 11 (9), 3123–3132.
2014	Alzghoul, A., Alhalaweh, A., Mahlin, D., Bergström, C.A.S. (2014). Experimental and computational prediction of glass transition temperature of drugs. <i>Journal of chemical information and modeling</i> , 54 (12), 3396–3403.
2014	Kaialy, W., Hussain, T., Alhalaweh, A., Nokhodchi, A. (2014). Towards a more desirable dry powder inhaler formulation: large spray-dried mannitol microspheres outperform small microspheres. <i>Pharmaceutical research</i> , 31 (1), 60-76.
2014	Alhalaweh, A., Alzghoul, A., Kaialy, W. (2014). Data mining of solubility parameters for computational prediction of drug-excipient miscibility. <i>Industrial pharmacy and drug development</i> , 40 (7), 904–909. Corresponding author

2014	Chattoraj, S., Shi, L., Chen, M., Alhalaweh, A. , Velaga, S., Sun, C.C. (2014). Origin of deteriorated crystal plasticity and compaction properties of a 1:1 cocrystal between piroxicam and saccharin. <i>Crystal Growth & Design</i> , 14 (8), 3864–3874.
2014	Alhalaweh, A. , Ali, HRH., Velaga, S. P. (2014). Effects of polymer and surfactant on the dissolution and transformation profiles of cocrystals in aqueous media. <i>Crystal Growth & Design</i> , 14 (2), 643–648.
2014	Alhalaweh, A. , Kaialy, W., Buckton, G., Gill, H., Nokhodchi, A., Velaga, S. P. (2013). Theophylline cocrystals prepared by Spray drying: physicochemical properties and aerosolization performance. <i>AAPS PharmSciTech</i> , 14, http://link.springer.com/journal/12249/14/1/page/1265-276 .
2013	Gavini, E., Rasso, G., Ferraro, L., Beggiato, S., Alhalaweh, A. , Velaga, S., Marchetti, N., Bandiera, P., Giunchedi, P., Dalpiaz, A. (2013). Influence of polymeric microcarriers on the in-vivo intranasal uptake of an anti-migraine drug for brain targeting. <i>European journal of pharmaceuticals and biopharmaceutics</i> , 83 (2), 174–183.
2012	Ali, R. H. A., Alhalaweh, A. , Velaga, S. P. (2012). Solid-state vibrational spectroscopic: investigation of cocrystal and salt of indomethacin. <i>CrystEngComm</i> , 14, 6665-6674.
2012	Ali, R. H. A., Alhalaweh, A. , Velaga, S. P. (2012). Vibrational spectroscopic investigation of polymorphs and cocrystals of indomethacin. <i>Drug Development and Industrial Pharmacy</i> , 39 (5), 625-634.
2012	Alhalaweh, A. , Roy, L., Rodriguez-Hornedo, N., Velaga, S. P. (2012). pH-dependent solubility and stability of indomethacin-saccharin and carbamazepine-saccharin cocrystals in aqueous media. <i>Molecular pharmaceuticals</i> , 9 (9), 2605-2612.
2012	Maruyoshi, K., Iuga, D., Antzutkin, O. N., Alhalaweh, A. , Velaga, S. P., Brown, S. P. (2012). Identifying the intermolecular hydrogen-bonding supramolecular synthons in an indomethacin-nicotinamide cocrystal by solid-state NMR. <i>Chemical communication</i> , 48 (88), 10844-10846.
2012	Alhalaweh, A. , George, S., Basavoju, S., Childs, S., Rizvi, S., Velaga, S. P. (2012). Pharmaceutical cocrystals of the poorly soluble drug nitrofurantoin: screening, characterization and crystal structural analysis. <i>CrystEngComm</i> , 14, 5078-5088.

2012	Kaialy, W., Alhalaweh, A. , Velaga, S. P., Nokhodchi, A. (2012). Influence of lactose particle size on uniformity, adhesion and inhalation performance of budesonide from dry powder aerosols. <i>Powder technology</i> , 227, 74–85.
2011	Alhalaweh, A. , Vilinska, A., Gavini, E., Rassa, G., Velaga, S. P. (2011). Surface thermodynamics of mucoadhesive dry powder formulation of zolmitriptan. <i>AAPS PharmSciTech</i> , 12 (4), 1186-1192
2011	Kaialy, W., Alhalaweh, A. , Velaga, S. P., Nokhodchi, A. (2011). Effect of carrier particle shape on dry powder inhaler performance. <i>International journal of pharmaceutics</i> , 421 (1), 12-23.
2011	Alhalaweh, A. , Sokolowski, A., Rodriguez-Hornedo, N., Velaga, S. P. (2011). Solubility behavior and solution chemistry of indomethacin cocrystals in organic solvents. <i>Crystal Growth & Design</i> , 11 (9), 3923–3929.
2011	Mohammad, M. A., Alhalaweh, A. , Velaga, S. P. (2011). Hansen solubility parameter as a tool to predict cocrystal formation. <i>International journal of pharmaceutics</i> , 407 (1-2), 63-71.
2010	Jung, M. S., Kim, J. S., Kim, M. S., Alhalaweh, A. , Cho, W., Hwang, S. J., Velaga, S. P. (2010). Bioavailability of indomethacin saccharin cocrystals. <i>Journal of Pharmacy and Pharmacology</i> , 62 (11), 1560-1568.
2010	Alhalaweh, A. , Velaga, S. P. (2010). Formation of cocrystals from stoichiometric solutions of incongruently saturating systems by spray drying. <i>Crystal Growth & Design</i> , 10 (8), 3302–3305.
2010	Alhalaweh, A. , George, S., Bostrom, D., Velaga, S. P. (2010). 1: 1 and 2: 1 urea-succinic acid cocrystals: structural diversity, solution chemistry, and thermodynamic stability. <i>Crystal Growth & Design</i> , 10 (11), 4847–4855.
2009	Alhalaweh, A. , Andersson, S., Velaga, S. P. (2009). Preparation of zolmitriptan-chitosan microparticles by spray drying for nasal delivery. <i>European Journal of Pharmaceutical Sciences</i> , 38 (3), 206-214.

2024

[*Amjad Alhalaweh*]

2008

Allesø, M., Velaga, S. P., **Alhalaweh, A.**, Cornett, C., Rasmussen, M. A., Berg, F., Diego, H. L., Rantanen, J. (2008). Near-infrared spectroscopy for cocrystal screening. A comparative study with Raman spectroscopy. *Analytical chemistry*, 80 (20), 7755-7764.

PROFESSIONAL MEMBERSHIPS

- Swedish Academy of Pharmaceutical Sciences (Läkemedelsakademin) American Association of Pharmaceutical Science (AAPS)