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Research

I have worked in the field of physical chemical characterisation of proteins since 1987. First as a PhD and research assistant working with protein adsorption to solid surfaces and the influence of other surface active components on this. After this I worked with oral and parenteral delivery of pharmaceutical peptides, in the capacity as head of formulation at Ferring AB. Upon my return to the University I have broadened the scope of delivery problems that I work with I have been involved in research endeavours often together with industry partners dealing with controlled delivery of both biological and traditional drugs. When it comes to protein delivery the focus has been on depo-formulations and recently on protein/surfactant interactions. For the traditional drugs most of the focus has been in using hydrogels both classical ones and hydrophobically modified ones for controlled delivery of lipophilic substances. An important part of this work is to investigate the physicochemical properties of the gels, including rheological properties. I am also involved in projects related to Pickering emulsions and primarily their use in formulations for topical creams. I have had several collaborations with pharmaceutical companies especially through diploma workers but also in research collaborations. The companies include Ferring, AstraZeneca, McNeal, Bioglan, Bonesupport, Biogaia Zelmic technology, Nycomedpharma, Leopharma, and NovoNordisk.

Employment

Professor

Department of Food Technology, Engineering and Nutrition
Lund University
Lund, Sweden
2015 Sep 21 → present

Riksdagsledamot

Swedish Parliament
Stockholm, Sweden
2002 Jan 1 → 2006 Jan 1

Head Pharmaceutical department

Ferring AB
Copenhagen, Denmark
1997 Oct 1 → 2000 Jul 30

Ferring AB, Malmö Group manager Peroral group

Ferring AB
Copenhagen, Denmark
1997 Apr 1 → 1997 Dec 30

Research output

Quantification of structures in freeze-dried materials using X-ray microtomography

Bai Palmkron, S., Bergenståhl, B., Håkansson, S., Wahlgren, M., Fureby, A. M. & Larsson, E., 2023 Feb 5, In: Colloids and Surfaces A: Physicochemical and Engineering Aspects. 658, 130726.

Deep eutectic solvents for the preservation of concentrated proteins: the case of lysozyme in 1 : 2 choline chloride : glycerol

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Tactile friction of topical creams and emulsions: Friction measurements on excised skin and VitroSkin® using ForceBoard™

Ali, A., Ringstad, L., Skedung, L., Falkman, P., Wahlgren, M. & Engblom, J., 2022 Mar 5, In: International Journal of Pharmaceutics. 615, 121502.

Relationship between sensorial and physical characteristics of topical creams: *A comparative study on effects of excipients*

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Shear-induced nanostructural changes in micelles formed by sugar-based surfactants with varied anomeric configuration

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Temperature and Heat Transfer Control During Freeze Drying. Effect of Vial Holders and Influence of Pressure

Palmkron, S. B., Gustavsson, L., Wahlgren, M., Bergensthåhl, B. & Fureby, A. M., 2022, In: Pharmaceutical Research. 39, 10, p. 2597-2606

Topological Dynamics of Micelles Formed by Geometrically Varied Surfactants

Sanchez-Fernandez, A., Larsson, J., Leung, A. E., Holmqvist, P., Czakkel, O., Nylander, T., Ulvenlund, S. & Wahlgren, M., 2022, In: Langmuir. 38, 33, p. 10075-10080 6 p.

Mucoadhesion: mucin-polymer molecular interactions

Pham, Q. D., Nöjd, S., Edman, M., Lindell, K., Topgaard, D. & Wahlgren, M., 2021 Dec 15, In: International Journal of Pharmaceutics. 610, 9 p., 121245.

The impact of glycerol on an affibody conformation and its correlation to chemical degradation

Ramm, I., Sanchez-Fernandez, A., Choi, J., Lang, C., Fransson, J., Schagerlöf, H., Wahlgren, M. & Nilsson, L., 2021 Nov, In: Pharmaceutics. 13, 11, 14 p., 1853.

Tail unsaturation tailors the thermodynamics and rheology of a self-assembled sugar-based surfactant

Larsson, J., Leung, A. E., Lang, C., Wu, B., Wahlgren, M., Nylander, T., Ulvenlund, S. & Sanchez-Fernandez, A., 2021 Mar, In: Journal of Colloid and Interface Science. 585, p. 178-183 6 p.

Molecular structure of maltoside surfactants controls micelle formation and rheological behavior

Larsson, J., Sanchez-Fernandez, A., Leung, A. E., Schweins, R., Wu, B., Nylander, T., Ulvenlund, S. & Wahlgren, M., 2021 Jan 1, In: Journal of Colloid and Interface Science. 581, p. 895-904 10 p.

Capturing progression of formal knowledge and employability skills by monitoring case discussions in class

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Sanchez-Fernandez, A., Diehl, C., Houston, J. E., Leung, A. E., Tellam, J. P., Rogers, S. E., Prevost, S., Ulvenlund, S., Sjögren, H. & Wahlgren, M., 2020, In: Nanoscale Advances. 2, 9, p. 4011-4023 13 p.

Separation and zeta-potential determination of proteins and their oligomers using electrical asymmetrical flow field-flow fractionation (EAF4)

Choi, J., Fuentes, C., Fransson, J., Wahlgren, M. & Nilsson, L., 2020, In: Journal of Chromatography A. 1633, 461625.

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Characterization of non-solvent precipitated starch using asymmetrical flow field-flow fractionation coupled with multiple detectors

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The effect of the anomeric configuration on the micellization of hexadecylmaltoside surfactants

Larsson, J., Sanchez-Fernandez, A., Mahmoudi, N., Barnsley, L., Wahlgren, M., Nylander, T. & Ulvenlund, S., 2019, In: Langmuir. 35, 43, p. 13904-13914

Pickering emulsions based on CaCl₂-gelatinized oat starch

Saari, H., Johansson, D. B., Knopp, N., Sjöo, M., Rayner, M. & Wahlgren, M., 2018, In: Food Hydrocolloids. 82, p. 288-295 8 p.

Sifting segregation of ideal blends in a two-hopper tester: Segregation profiles and segregation magnitudes

Marucci, M., Al-Saigh, B., Boissier, C., Wahlgren, M. & Wikström, H., 2018, In: Powder Technology. 331, p. 60-67 8 p.

Will a water gradient in oral mucosa affect transbuccal drug absorption?

Ali, A., Wahlgren, M., Pedersen, L. & Engblom, J., 2018, In: Journal of Drug Delivery Science and Technology. 48, p. 338-345 8 p.

Production of starch nanoparticles by dissolution and non-solvent precipitation for use in food-grade Pickering emulsions

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Barrier properties of heat treated starch Pickering emulsions.

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Knöös, P., Wahlgren, M., Topgaard, D., Ulvenlund, S. & Piculell, L., 2014, In: The Journal of Physical Chemistry Part B. 118, 32, p. 9757-9767

Quantifying the release of lactose from polymer matrix tablets with an amperometric biosensor utilizing cellobiose dehydrogenase.

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The use of micro- and nanoparticles in the stabilisation of pickering-type emulsions for topical delivery.

Wahlgren, M., Engblom, J., Sjö, M. & Rayner, M., 2014, In: Current Pharmaceutical Biotechnology. 14, 15, p. 1222-1234

Monitoring and stimulating development of integrated professional skills in university study programmes

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Using NMR Chemical Shift Imaging To Monitor Swelling and Molecular Transport in Drug-Loaded Tablets of Hydrophobically Modified Poly(acrylic acid): Methodology and Effects of Polymer (In)solubility

Knöös, P., Topgaard, D., Wahlgren, M., Ulvenlund, S. & Piculell, L., 2013, In: Langmuir. 29, 45, p. 13898-13908

Using observed student team problem solving to monitor and stimulate development of complex integrated professional skills

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Characterization of starch Pickering emulsions for potential applications in topical formulations.

Marku, D., Wahlgren, M., Rayner, M., Sjö, M. & Timgren, A., 2012, In: International Journal of Pharmaceutics. 428, 1-2, p. 1-7

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Assessing progression in engineering study programs

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Development of mass transport resistance in poly(lactide-co-glycolide) films and particles - A mechanistic study.

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Fredenberg, S., Wahlgren, M., Reslow, M. & Axelsson, A., 2011, In: Journal of Controlled Release. 150, p. 142-149

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Vad är en civilingenjör och hur blir studenter civilingenjörer?

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Rundabordssamtal: Är det skillnad att utbilda naturvetare och tekniker?

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En genomgång av laborativa moment i de obligatoriska kurserna på kemiteknikprogrammets första tre år

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Activities

FORMULATION TECHNOLOGY IN PHARMACEUTICS, NUTRACEUTICS AND COSMETICS

Marie Wahlgren (Participant)

2016 Oct 10

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