

Morten Østergaard Andersen
Lektor
Institut for Kemi-, Bio- og Miljøteknologi
E-mail: moan@kbm.sdu.dk
Telefon: 21261877
Fax: 66157697



Karriere

2018-Nu Visiting Research Fellow, University of Western Australia, Perth, Australien
2017-Nu Co-Founder, Particle3D ApS, Odense, Danmark
2014-Nu Lektor, Syddansk Universitet, Odense, Danmark
2012-2013 Konsulent, Teknologisk Institut, Høje Taastrup, Danmark
2009-2012 Postdoc, Aarhus Universitet, Aarhus, Danmark
2009 Visiting Scholar, University of Nebraska Medical School, Omaha, USA

Uddannelse

2005-2009 PhD i Nanoscience og Molekylær Biologi, Aarhus Universitet, Danmark
2005 MSc Kurser i Kemi og Molekylær Biologi, Aarhus Universitet, Danmark
2004 MSc Kurser, University of Manchester, Manchester, UK
2001-2004 BSc i Kemi og Molekylær Biologi, Aarhus Universitet, Aarhus, Danmark

Publikationer

Antibody conjugated lipid nanoparticles as a targeted drug delivery system for hydrophobic pharmaceuticals

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Treating mouse skull defects with 3D printed fatty acid and tricalcium phosphate implants

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Composites of fatty acids and ceramic powders are versatile biomaterials for personalized implants and controlled release of pharmaceuticals

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Nygaard, J. V., Andersen, M. Ø., Howard, K. A., Foss, M., Bünger, C., Kjems, J. & Besenbacher, F., 1. jul. 2008, I: *Biotechnology and Bioengineering (Print)*. 100, 4, s. 820-9 10 s.

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RNA interference in vitro and in vivo using a novel chitosan/siRNA nanoparticle system

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Device for capturing microorganisms from the environment

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Moulding and Casting of Composites

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Process for Modifying the Surface Morphology of a Medical Device

Le, D. Q. S., Andersen, M. Ø., Baatrup, A., Chen, M., Chen, M., Lysdahl, H., Besenbacher, F., Bünger, C. & Kjems, J., 27. jun. 2013, Patentnr. PCT/DK2012/050507, 23. dec. 2011

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Konference Bidrag

The Application of 3D Printing and Nutrient/Biomaterial Microhabitats for In Situ Enrichment of Microbial Cultures

Andersen, M. Ø., Moreira-Grez, B., Østergaard Andersen, M. J. & Whiteley, A., 19. apr. 2020, I: *The FASEB Journal*. 34, S1

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3D printing of nutrient biomaterial microhabitats for microbial capture

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Solid Lipid Nanoparticles as Drug Delivery Systems for Cancer Therapy: Uptake and Effect of Antibody Conjugated Nanoparticles.

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Carrier Matrix for siRNA-Mediated Gene Knock Down to Promote Neuronal Regeneration.

Hartmann, H., Lakner, U., Andersen, M. Ø., Kjems, J., Howard, K. A. & Schloßhauer, B., 2009, I: Tissue Engineering. Part A. Tissue Engineering. 3, s. 718

Polycaprolactone nanomesh cultured with hMSC evaluated by synchrotron tomography

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Nanoscaffolds for Drug Delivery and Tissue Engineering

Nygaard, J. V., Andersen, M. Ø., Cloetens, P., Foss, M., Kassem, M., Kjems, J. & Besenbacher, F., 2008.

Localized Delivery of Lyophilized siRNA polyplexes

Bak, R. O., Andersen, M. Ø., Howard, K. A. & Kjems, J., 2007. 1 s.

Surface delivery of siRNA for implants

Andersen, M. Ø., Nygaard, J. V., Howard, K., Bak, R. O., Paludan, S. R., Raarup, M. K., Besenbacher, F. & Kjems, J., 2007, I: European Cells & Materials. 14, 3, s. 118 1 s.

Bevillinger

Solid Lipid Implant Testing in a Large Animal Model of Bone Resection

2017-2018, DKK 497.700, Main Applicant, from the Novo Nordisk Foundation

Endolith Bioculture in 3D Printed Environments (EndoBio3D)

2018-2020, DKK 1.713.500, Main Applicant, from the Villum Foundation

In Situ Raman Analysis of Resorbable and Drug Loaded 3D printed Implants

2017-2020, DKK 2.570.400, Co-Applicant, From the Danish Council for Independent Research | Technology and Production Sciences

Forskning i additiv fremstilling af metal, keramik og komposit strukturer med direct ink writing teknikken

2015-2017, DKK 60.000, From the Hartmann Foundation