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Publications

The cytoplasmic tail of myelin protein zero induces morphological changes in lipid membranes

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Alakoskela, J.-M., Jutila, A., Simonsen, A. C., Pirneskoski, J., Pyhäjoki, S., Turunen, R. ., Marttila, S., Mouritsen, O. G., Goormaghtigh, E. & Kinnunen, P. K. J., 2006, In: *Biochemistry*. 45, p. 13447-13453

Dynamic force spectroscopy on soft molecular systems: Improved analysis of unbinding spectra with varying linker compliance

Thormann, E., Hansen, P. L., Simonsen, A. C. & Mouritsen, O. G., 2006, In: *Colloids and Surfaces B: Biointerfaces*. 53, p. 149-156

Forskerdysten,-24 timers konkurrence under Forskningens Døgn med opgaven at løse verdens energiproblemer

Simonsen, A. C., 2006

Hydrolysis of fluid supported membrane islands by phospholipase A(2): Time-lapse imaging and kinetic analysis

Simonsen, A. C., Jensen, U. B. & Hansen, P. L., 2006, In: *Journal of Colloid and Interface Science*. 301, p. 107-115

Nanofibers made to order: - free floating, transferred and gel-packed organic nanoaggregates

Balzer, F., Bagatolli, L., Brewer, J. R., Simonsen, A. C. & Rubahn, H.-G., 2006.

Formation of single supported bilayer membranes by spincoating: Structure and domain formation

Simonsen, A. C. & Bagatolli, L., 2005, *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*. American Chemical Society, Vol. 229. p. U714

Shape relaxations in a fluid supported membrane during hydrolysis by phospholipase A2

Jensen, U. B. & Simonsen, A. C., 2005, In: *BBA Biomembranes*. 1715, p. 1-5

UV laser cutting on organic nanofibers

Balzer, B., Ihlemann, J., Simonsen, A. C. & Rubahn, H.-G., 2005.

Cholesterol rules: direct observation of the coexistence of two fluid phases in native pulmonary surfactant membranes at physiological temperatures

Bernardino de la Serna, J., Perez-Gil, J., Simonsen, A. C. & Bagatolli, L. A., 24. Sept 2004, In: *Journal of Biological Chemistry*. 279, 39, p. 40715-40722 7 p.

Coexistence of two fluid phases in native porcine pulmonary surfactant membranes: cholesterol rules

Bagatolli, L., Bernardino de la Serna, J., Simonsen, A. C. & Perez-Gil, J., 2004.

Lateral organization in native pulmonary surfactant films visualized by combined AFM and fluorescence imaging

Simonsen, A. C., Bernardino de la Serna, J., Bagatolli, L. & Perez-Gil, J., 2004.

Lateral phase separation in giant unilamellar vesicles made of native pulmonary surfactant preparations. Role of cholesterol and the hydrophobic proteins SP-B and SP-C

Bernardino de la Serna, J., Simonsen, A. C., Perez-Gil, J. & Bagatolli, L., 2004, In: Applied Cardiopulmonary Pathophysiology. 13, 1, p. 16-18

Nanobubbles give evidence of incomplete wetting at a hydrophobic interface.

Simonsen, A. C., Hansen, P. L. & Klösgen, B., 2004, In: Journal of Colloid and Interface Science. 273, p. 291-299

Organic Nanoaggregates: A Window to Submicron Optics

Balzer, F., Bordo, V. G., Neuendorf, R., Al-Shamery, K., Simonsen, A. C. & Rubahn, H.-G., 2004, In: IEEE Transactions on Nanotechnology. 3, 1, p. 67-72

Structure of spincoated lipid films and domain formation in supported membranes formed by hydration.

Simonsen, A. C. & Bagatolli, L., 2004, In: Langmuir. 20, p. 9720-9728

UV laser-induced grating formation in PDMS thin films

Rubahn, K., Ihlemann, J., Jakopic, G., Simonsen, A. C. & Rubahn, H.-G., 2004, In: Applied Physics A. 79, p. 1715-1719

Videnskaben i øjet - et billede siger mere end tusind ord

Mouritsen, O. G., Simonsen, A. C., Rowat, A. C., Bagatolli, L. & Keller, D., 2004, In: Aktuel Naturvidenskab. 4, p. 18-21 4 p.

Atomic Force Microscopy of interface-associated nano-bubbles formed by hydrophobic mismatch

Simonsen, A. C., Klösgen-Buchkremer, B. M. & Mouritsen, O. G., 2003, In: Biophysical Journal. 84, p. 469A-469A

Electroformed liposomes on planar electrodes as free-standing model membranes for atomic force microscopy

Simonsen, A. C., Bagatolli, L. & Mouritsen, O. G., 2003.

Nanobubbles and their precursor layer at the interface of water against a hydrophobic substrate

Steitz, R., Gutberlet, T., Hauss, T., Klösgen, B., Krastev, R., Schemmel, S., Simonsen, A. C. & Findenegg, G., 2003, In: Langmuir. 19, 6, p. 2409-2418

Optically Active Organic Microrings

Balzer, F., Beermann, J., Bozhevolnyi, S. I., Simonsen, A. C. & Rubahn, H.-G., 2003, In: Nano Letters. 3, 9, p. 1311-1314

Optical Waveguiding in Individual Nanometer-Scale Organic Fibers

Balzer, F., Bordo, V. G., Simonsen, A. C. & Rubahn, H.-G., 2003, In: Physical Review B. 67, 11, p. 115408

Optiske nano-fibre

Rubahn, H.-G. & Simonsen, A. C., 2003, In: Aktuel Naturvidenskab. 6, p. 16-19 4 p.

Local Spectroscopy of Individual Hexaphenyl Nanofibers

Simonsen, A. C. & Rubahn, H.-G., 2002, In: Nano Letters. 2, 12, p. 1379-82

Probing the ex situ morphology of Ge islands on Si(001): AFM and XPS inelastic peak shape analysis

Simonsen, A. C., Tougaard, S., Lundsgaard Hansen, J. & Nylandsted Larsen, A., 2001, In: Surface and Interface Analysis. 31, 4, p. 328-337 10 p.

Analysis of angle-resolved electron energy loss in XPS spectra of Ag, Au, Co, Cu, Fe and Si

Simonsen, A. C., Youbero, F. & Tougaard, S., 1999, In: Surface Science. 436, 1, p. 149-159

Nanostructure of Ge deposited on Si(001): a study by XPS peak shape analysis and AFM

Simonsen, A. C., Schleberger, M., Tougaard, S., Lundsgaard Hansen, J. & Nylandsted Larsen, A., 1999, In: Thin Solid Films. 338, 1-2, p. 165-71 7 p.

Quantification of Au deposited on Ni: XPS peak shape analysis compared to RBS

Simonsen, A. C., Pøhler, J. P., Jeynes, C. & Tougaard, S., 1999, In: Surface and Interface Analysis. 27, 1, p. 52-56 5 p.

Ge growth on Si(001) studied by x-ray photoelectron spectroscopy peakshape analysis and atomic force microscopy

Schleberger, M., Simonsen, A. C., Tougaard, S., Lundsgaard Hansen, J. & Nylandsted Larsen, A., 1. Nov 1997, In: Journal of Vacuum Science & Technology. A. Vacuum, Surfaces, and Films. 15, 6, p. 3032-3035 4 p.

Quantitative model of electron energy loss in XPS

Simonsen, A. C., Yubero, F. & Tougaard, S., 15. Jul 1997, In: Physical Review B. 56, 3, p. 1612-1619 8 p.

Activities

1st In-House Conference on Imaging Ellipsometry and Brewster Angle Microscopy. Accurion GmbH

Simonsen, A. C. (Participant)

9. Jun 2010 → 10. Jun 2010

6th workshop ellipsometry, TU Berlin

Simonsen, A. C. (Speaker)

21. Feb 2011 → 23. Feb 2011

AFM4NanoMed&Bio, EU COST ACTION TD1002 (External organisation)

Simonsen, A. C. (Member)

2011 → 2014

AFM BioMed 2011

Simonsen, A. C. (Participant)

23. Aug 2011 → 27. Aug 2011

Annexins induce membrane curvature near hole edges during plasma membrane repair

Simonsen, A. C. (Guest lecturer)

1. Apr 2019

Atomic Force Microscopy (AFM): A powerful technique for characterizing biomolecular interfaces and single biomolecules

Simonsen, A. C. (Lecturer)

19. Oct 2011

Atomic Force Microscopy: A powerful technique for characterizing biomolecular interfaces and single biomolecules

Simonsen, A. C. (Lecturer)

19. Oct 2011

Biophysics and Milk: Applying high-resolution microscopy and concepts from biophysics to dairy systems

Simonsen, A. C. (Lecturer)

26. May 2014

Brunch med en forsker: Foredrag på hyttetur for nye studerende på SDU

Simonsen, A. C. (Other)

6. Sept 2008

Censor på 1 speciale + 2 gruppeeksamener, Aalborg Universitet

Simonsen, A. C. (Censor)

23. Jun 2010

Censor på 1 speciale, Aarhus Universitet

Simonsen, A. C. (Censor)

7. Jan 2011

Censor på 1 speciale, Aarhus Universitet

Simonsen, A. C. (Censor)

4. Feb 2011

Censor på 1 speciale, Århus Universitet

Simonsen, A. C. (Censor)

25. Jan 2012

Censor på 1 speciale, DTU

Simonsen, A. C. (Censor)

10. Sept 2010

Censor på 1 speciale, Niels Bohr Institutet

Simonsen, A. C. (Censor)

25. Jun 2012

Censor på speciale, NBI/KU

Simonsen, A. C. (Censor)

8. Aug 2011

Censor ved førsteårsprojekter

Simonsen, A. C. (Censor)

14. Jun 2007

Chalmers University of Technology (External organisation)

Simonsen, A. C. (Member)

22. Feb 2013

Characterization of Domain Patterns in Biomembranes

Simonsen, A. C. (Lecturer)

18. Dec 2008

DIBS17

Simonsen, A. C. (Organizer)

23. Jan 2017

Domain structures in model membranes

Simonsen, A. C. (Lecturer)

6. Mar 2007

Ekstern opponert på PhD afhandling, Nanoscience Center KU og DTU

Simonsen, A. C. (Examiner)

16. Sept 2011

European Neuropsychopharmacology (Journal)

Simonsen, A. C. (Editor)

1. Jan 2009

Foam in Food

Simonsen, A. C. (Participant)

19. Apr 2012

Food in Front - LMC Congress 2011

Simonsen, A. C. (Participant)
23. May 2011 → 24. May 2011

Forskningsbaseret innovation i fødevarebranchen

Simonsen, A. C. (Participant)
30. Oct 2013

Fysik: Alt hvad du bør vide om naturvidenskab – næsten

Simonsen, A. C. (Lecturer)
7. Nov 2012

Gordon Research Conference

Simonsen, A. C. (Participant)
15. Jun 2014 → 20. Jun 2014

High resolution imaging og biomolecular structures by Atomic Force Microscopy

Simonsen, A. C. (Lecturer)
10. Nov 2008

High resolution microscopy of structure formation in supported lipid membranes

Simonsen, A. C. (Speaker)
2006

Hovedopponent ved PhD forsvar, KTH Stockholm (External organisation)

Simonsen, A. C. (Chairman)
2. Nov 2012

ILCC2012

Simonsen, A. C. (Speaker)
23. Aug 2012

Importance of membrane curvature near hole edges in plasma membrane repair

Simonsen, A. C. (Guest lecturer)
18. Feb 2018

Journal of the American Chemical Society (Journal)

Simonsen, A. C. (Editor)
1. Jan 2009

Jury medlem i "Projekt forskerspirer" (External organisation)

Simonsen, A. C. (Member)
1. Oct 2011 → 8. Dec 2011

Kaseinmicellens struktur og anvendelse af specifikke kaseiner som funktionel ingrediens

Simonsen, A. C. (Lecturer)
15. Mar 2012

Lateral organization in single and double supported model membranes prepared by spincoating

Simonsen, A. C. (Lecturer)
20. Mar 2008

Lateral Organization in single and double supported membranes probed with AFM and fluorescence microscopy

Simonsen, A. C. (Lecturer)

27. Sept 2007

Liquid crystal textures in biomembranes

Simonsen, A. C. (Lecturer)

13. Jun 2013

Medlem af PhD bedømmelsesudvalg

Simonsen, A. C. (Examiner)

23. Oct 2023

Mejeriforeningens Forskningsfonds (MFF) styregruppe (External organisation)

Simonsen, A. C. (Member)

1. Mar 2011 → 1. Jun 2014

Mejeriforskningens dag

Simonsen, A. C. (Participant)

27. Mar 2019

Microscopy of domains patterns in membranes

Simonsen, A. C. (Lecturer)

10. Apr 2008

Microscopy of orientational texture patterns in membrane domains

Simonsen, A. C. (Lecturer)

17. Jan 2013

Monitoring lipase activity in planar lipid substrates: Large-scale relaxations in the substrate and single enzyme activity

Simonsen, A. C. (Speaker)

2006

Monolayer Workshop

Simonsen, A. C. (Participant)

19. Jun 2008

Nanobased sensors

Simonsen, A. C. (Participant)

5. Dec 2007

Nanomaterials in Denmark

Simonsen, A. C. (Participant)

1. Jun 2007

Nanomaterials in Denmark

Simonsen, A. C. (Participant)

1. Jun 2007

Nanostrukturer i mælk og mejeriprodukter visualiseret med højopløst mikroskopi

Simonsen, A. C. (Lecturer)

21. Jun 2013

Nanoteknologi

Simonsen, A. C. (Lecturer)

16. Mar 2010

Nanoteknologi

Simonsen, A. C. (Lecturer)
11. Oct 2010

Naturens egen nanoteknologi

Simonsen, A. C. (Guest lecturer)
7. Nov 2007

Novel approaches to investigate Structure, Aggregation and Practical Implications of Casein and Casein Micelles

Simonsen, A. C. (Lecturer)
21. Nov 2014

Oriental patterns in biomembranes: Using model systems to study liquid crystal textures in single domains

Simonsen, A. C. (Lecturer)
21. Jun 2013

Oriental texture and defects in gel domains of lipid bilayers

Simonsen, A. C. (Lecturer)
23. Aug 2012

Oriental texture of lipid membrane domains

Simonsen, A. C. (Lecturer)
14. Apr 2014 → 16. Apr 2014

Oriental texture of membrane domains

Simonsen, A. C. (Lecturer)
16. Sept 2011

Oriental texture of membrane domains: Effect of lipid composition and binding of a bacterial toxin.

Simonsen, A. C. (Lecturer)
8. Feb 2015

PhD assessment committee (External organisation)

Simonsen, A. C. (Chairman)
1. Dec 2016 → 1. Mar 2017

Ph.D. Bedømmelsesudvalg (External organisation)

Simonsen, A. C. (Member)
28. Oct 2011

Phospholipase A2 activation by homogenous and heterogeneous model membranes

Simonsen, A. C. (Lecturer)
29. Mar 2007

Phospholipase A2 activity towards phase-separated binary and ternary membranes

Simonsen, A. C. (Speaker)
2006

Physical Review Letters (Journal)

Simonsen, A. C. (Editor)
1. Jan 2009

Physical Review Letters (Journal)

Simonsen, A. C. (Editor)

1. Jan 2009

Plagiater : Plagiater set fra en juridisk og en etisk synsvinkel

Simonsen, A. C. (Participant)

30. Oct 2008

Planar Biomolecular Interfaces as Biological Model Systems: Preparation Methods and Characterization by Atomic Force and Fluorescence Microscopy

Simonsen, A. C. (Speaker)

2006

Poly-unsaturated Fats, Neural Function and Metal Health

Simonsen, A. C. (Participant)

9. Aug 2007

Qatar National Research Fund (External organisation)

Simonsen, A. C. (Member)

2013 → ...

Quantifying domain patterns and domain textures in lipid bilayers

Simonsen, A. C. (Lecturer)

12. May 2010 → 15. May 2010

Quantitative analysis of coarsening and spatial domain distribution in a ternary membrane

Simonsen, A. C. (Lecturer)

21. Apr 2007

Remodeling of Raft-Mimicking Membranes by Phospholipase A(2)

Simonsen, A. C. (Lecturer)

17. Jun 2008

SDU (Organisational unit)

Simonsen, A. C. (Member)

13. Jan 2013

Shape of the membrane neck around a hole during plasma membrane repair

Simonsen, A. C. (Guest lecturer)

26. Jun 2024 → 28. Jun 2024

Soft matter approaches to structured food

Simonsen, A. C. (Participant)

2. Jul 2012 → 4. Jul 2012

Spatial and temporal lateral organization in supported model membranes

Simonsen, A. C. (Lecturer)

3. Oct 2007

Spatial and temporal organization of lipid domains in spincoated model membranes

Simonsen, A. C. (Lecturer)

18. Jun 2008

Spatial Organization of Na⁺/K⁺-ATPase and Lipid Domains in Free-standing Membranes Captured on a Solid Support

Simonsen, A. C. (Lecturer)

15. Oct 2015

Spincoated Supported Membranes as Powerful Biomembrane Models

Simonsen, A. C. (Lecturer)

25. Aug 2009

Spincoated Supported Membranes for Studying Lipid Domains and Domain Textures: Inviteret foredrag

Simonsen, A. C. (Lecturer)

10. Dec 2009

Teater Momentum (External organisation)

Simonsen, A. C. (Member)

1. Sept 2006 → 9. Feb 2007

"Texture in Biomembrane Domains": Combining microscopy and image analysis to probe the lipid orientation

Simonsen, A. C. (Lecturer)

10. Nov 2010

Texture of Membrane Domains

Simonsen, A. C. (Lecturer)

18. Jun 2009

The Biophysical Society Annual Meeting

Simonsen, A. C. (Participant)

8. Feb 2024 → 14. Feb 2024

The European Physical Journal E (Journal)

Simonsen, A. C. (Editor)

1. Jan 2009

University of Barcelona (External organisation)

Simonsen, A. C. (Member)

7. Nov 2013

University of Southern Denmark (External organisation)

Simonsen, A. C. (Member)

1. Jun 2007 → 1. Oct 2007

University of Southern Denmark (External organisation)

Simonsen, A. C. (Member)

1. May 2007 → 1. Sept 2007

Vejledning af studieretningsprojekt af gymnasieelev på Mulernes Legatskole

Simonsen, A. C. (Supervisor)

1. Dec 2007 → 15. Dec 2007

Working Groups Meeting, COST, Lamorlaye, France 10-13 May 2011

Simonsen, A. C. (Speaker)

10. May 2011 → 13. May 2011

Quantitative Analysis of Membrane Domain Patterns

Simonsen, A. C. (Lecturer)

24. Mar 2009

