

Curriculum Vitae of Niels B. Larsen

Niels B. Larsen, Ph.D., M.Sc. (Born 1969 in Stege, Denmark)
Private address: Rødovrevej 35, 2610 Rødovre, Denmark
Workplace: DTU Nanotech, Ørsteds Plads 345B, DK-2800 Kgs.
Lyngby, Denmark. Phone + 45 4525 8161, Fax + 45 4588 7762



Degrees:

PhD 1997, organic surface chemistry and analysis from University of Copenhagen.
MSc 1993, chemistry from University of Copenhagen.

Positions:

Professor (Oct 2011 -) DTU Nanotech, Technical University of Denmark
Research professor (Jan 2008 – Sep 2011) DTU Nanotech, Technical University of Denmark
Adjoint professor (Mar 2006 – Feb 2011) Dept. of Physics and Chemistry, Uni. Southern Denmark
Research professor (Jan 2007 – Dec 2007) Polymer Dept., Risø DTU, Technical University of Denmark
Research professor (Jul 2003 – Dec 2006) Polymer Dept., Risø National Laboratory
Senior scientist (Mar 1999 – Jun 2003) Danish Polymer Centre, Risø National Laboratory

Research focus:

Surface engineering of polymer materials, chemically and topographically, from nanometers to centimeters with the aim of interfacing biology to man-made systems.

Awards:

Ellen and Hans Hermers Prize (2010) awarded for significant contributions to make the latest research in polymer micro- and nanotechnology available for industrial use.

Visiting scientist:

IBM Zürich Research Laboratory (Oct 1994 – Apr 1995) Zürich (CH).

Reviewer and evaluation assignments:

Reviewer assignments for numerous journals (Acta Biomater., ACS Appl. Mater. Interfaces, Adv. Funct. Mater., Adv. Mater., Angew. Chem., Biointerfaces, Chem. Commun., IEEE Trans. Nanobiosci., J. Am. Chem. Soc., J. Vac. Soc. Technol. B, Lab. Chip, Langmuir, Macromol. Biosci., Macromol. Chem. Phys., Macromol. Mater. & Eng., Microelectron. Eng., Microfluid. Nanofluid., Nature Nanotech, Sens. Actuators B, Small, Synth. Met., Thin Solid Films).

External examiner for the *Research Council of Norway* (Norway), the *Swiss National Science Foundation* (Switzerland), and the *Fondation InNaBioSanté* (France) .

PhD evaluation committees in the UK, Sweden, Finland, and Denmark.

Research collaboration with industry (2005 – present):

Novo Nordisk A/S (DK), Coloplast A/S (DK), Danfoss (DK), Nunc / Thermo Fisher Scientific (DK), Radiometer A/S (DK), SMB (DK), InMold Biosystems A/S (DK), FluimediX A/S (DK), Smart Biosystems (DK), Sophion Bioscience (DK), Unisensor A/S (DK), Velux A/S (DK), Chempilots A/S (DK), 2cureX (DK).

The company InMold Biosystems A/S, founded in 2007, is based on a patent by Niels B. Larsen and two of his group's PhD students in 2006.

Supervision:

Advisor and co-advisor for 19 M.Sc. students, 18 Ph.D. students, and 11 PostDocs.

Grants and project management 2005- (total funding of research group: 45.9 MDKK):

- 2011-2015: IndiTreat - Individualized treatment of colorectal cancer patients (Danish Strategic Research Council), **Principal investigator**, total budget / group budget 21.0 MDKK / 5.0 MDKK
- 2011-2016: PolyNano –Precision and Nano-scale Polymer Mass Fabrication (Danish Strategic Research Council), total budget / group budget 60.0 MDKK / 2.5 MDKK
- 2010-2014: PILOC - Low cost, high performance biochip enabling cheaper and faster drug development (Danish Advanced Technology Foundation), total budget / group budget 22.8 MDKK / 3.8 MDKK
- 2010-2013: Microshaping hydrogels and their chemistry in 3D for optimizing and validating immune cell migration (Danish Research Council on Technology and Production), **Principal investigator**, total budget / group budget 5.3 MDKK / 5.3 MDKK
- 2007-2010: CEMIK - Center for Microtechnology for Improving Cancer Immunotherapy (Danish Agency for Science, Technology and Innovation), **Principal investigator**, total budget / group budget 24.0 MDKK / 3.6 MDKK
- 2006-2010: Nanosystems Engineering: NanoNose (Danish Strategic Research Council), budget total / DTU Nanotech (Risoe) 11.6 MDKK / 2.6 MDKK
- 2005-2010: Design and processing of polymers for micro-fluidic applications (Danish Research Council for Technology and Production), total budget / group budget 11.0 MDKK / 2.2 MDKK
- 2005-2009: Lab-on-a-chip for single-stranded DNA (Danish Research Council for Technology and Production), total budget / group budget 4.0 MDKK / 4.0 MDKK

Dissemination:

Co-author of 89 articles published in peer reviewed international periodicals. 30 articles published from 2009-2014. Citations: 2698 (2591 without self-citations) (ISI on 23 September 2014). H-index 28. Co-author of 5 patents (2 issued and 3 applications) and 1 book chapter. 7 invited talks at international conferences. More than 70 contributed talks at international and national conferences.