Binding of hydrophobic antigens to surfaces
Boas, U. 16 Mar 2017
Publication: Research › Patent – Annual report year: 2017

Simultaneous detection of antibodies to five Actinobacillus pleuropneumoniae serovars using bead-based multiplex analysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

A multiplexed immunoassay for simultaneous detection of antibodies to PRRSV, Actinobacillus pleuropneumoniae and Salmonella in pigs
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Anthelmintic activity of chicory (Cichorium intybus): in vitro effects on swine nematodes and relationship to sesquiterpene lactone composition
Publication: Research - peer-review › Journal article – Annual report year: 2016

Anthelmintic activity of forage chicory (Cichorium intybus) and field efficacy of ivermectin against gastrointestinal nematodes in Danish cattle
Publication: Research › Ph.D. thesis – Annual report year: 2016

Design, synthesis and characterization of polylysine dendrones for biomedical applications
Publication: Research › Ph.D. thesis – Annual report year: 2016

Preparation and self-assembly of amphiphilic polylysine dendrons
Publication: Research - peer-review › Journal article – Annual report year: 2016

Anthelmintic activity of sesquiterpene lactones from forage chicory against Ascaris suum
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Convergent synthesis of degradable dendrons based on L-malic acid
Publication: Research - peer-review › Journal article – Annual report year: 2015
Coping with anthelmintic resistance in ruminants: the potential use of chicory (Cichorium intybus) as an antiparasitic forage in cattle
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Purified extracts from chicory (Cichorium intybus) inhibit Ascaris suum glutathione-S transferase activity and reduce survival of larvae in vitro
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Sesquiterpene lactone-containing extracts from two chicory cultivars show different anthelmintic activity in vitro against Ostertagia ostertagi
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Sesquiterpene lactone containing extracts from two cultivars of forage chicory (Cichorium intybus) show distinctive chemical profiles and in vitro activity against Ostertagia ostertagi
Publication: Research - peer-review › Journal article – Annual report year: 2015

Urea and thiourea modified polypropyleneimine dendrimers clear intracellular α-synuclein aggregates in a human cell line
Publication: Research - peer-review › Journal article – Annual report year: 2015

A multiplexed immunoassay for detection of antibodies to Actinobacillus pleuropneumoniae (App) in pigs
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Color test for selective detection of secondary amines on resin and in solution.
Publication: Research - peer-review › Journal article – Annual report year: 2014

In vitro anti-parasitic effects of sesquiterpene lactones from chicory against cattle nematodes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

In vitro anti-parasitic effects of sesquiterpene lactones from chicory against cattle nematodes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Method to conjugate polysaccharide antigens to surfaces for the detection of antibodies
Publication: Research - peer-review › Journal article – Annual report year: 2014

Solid-phase synthesis of polyfunctional polylysine dendrons using aldehyde linkers
Publication: Research - peer-review › Journal article – Annual report year: 2014
Improved coupling of bacterial polysaccharides to macromolecules and solid supports
Boas, U. 2013
Publication: Research › Patent – Annual report year: 2013

Enhancement of Muramyldipeptide (MDP) Immunostimulatory Activity by Controlled Multimerization on Dendrimers
Sørensen, N. S., Boas, U. & Heegaard, P. M. H. 2011 In : Macromolecular Bioscience. 11, 11, p. 1484-1490
Publication: Research - peer-review › Journal article – Annual report year: 2011

Dendrimers for Vaccine and Immunostimulatory Uses: A Review
Heegaard, P. M. H., Boas, U. & Sørensen, N. S. 2010 In : Biocconjgate Chemistry. 21, 3, p. 405-418
Publication: Research - peer-review › Journal article – Annual report year: 2010

A robust quantitative solid phase immunoassay for the acute phase protein C-reactive protein (CRP) based on cytidine 5'-diphosphocholine coupled dendrimers
Publication: Research - peer-review › Journal article – Annual report year: 2009

Backbone Amide Linker in Solid-Phase Synthesis
Publication: Research - peer-review › Journal article – Annual report year: 2009

Dendrimer based vaccine adjuvants
Publication: Research - peer-review › Book chapter – Annual report year: 2009

IMMUNOSTIMULATORY PROPERTIES OF DENDRIMERS MULTIVALENTLY PRESENTING MURAMYLDIPEPTIDE
Sørensen, N. S., Boas, U. & Heegaard, P. M. H. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

A new efficient synthesis of isothiocyanates from amines using di-tert-butyl dicarbonate
Publication: Research - peer-review › Journal article – Annual report year: 2008

Dendrimers as scaffolds for immune stimulating motifs, a new approach to molecular adjuvants
Boas, U. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Dendrimers destabilize proteins in a generation-dependent manner involving electrostatic interactions
Publication: Research - peer-review › Journal article – Annual report year: 2008

Dendrimers for multivalent display of immune modulating motifs
Boas, U. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Molecular adjuvants using PAMP motifs: concept and methodology and effects on pig PBMCs
Sørensen, N. S., Boas, U. & Heegaard, P. M. H. 2008
Publication: Research - peer-review › Poster – Annual report year: 2008

THAL, a Sterically Unhindered Linker for the Solid-Phase Synthesis of acid sensitive protected peptide acids
The dendrimer-PAMP concept as a novel type of adjuvant
Boas, U. 2008
Publication: Research › Journal article – Annual report year: 2008

Towards molecular adjuvants and vaccines based on dendrimers
Boas, U. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Towards molecular adjuvants and vaccines based on dendrimers
Boas, U. 2008
Publication: Research › Conference abstract for conference – Annual report year: 2008

Dendrimer effects on peptide and protein fibrillation
Publication: Research - peer-review › Journal article – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs: A new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research - peer-review › Poster – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs – a new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs – a new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs – a new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs – a new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research › Poster – Annual report year: 2007

Dendrimers as scaffolds for immune-stimulatory motifs – a new class of well-defined molecular adjuvants
Serensen, N. S., Boas, U., Skovgaard, K., Jungersen, G. & Heegaard, P. M. H. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

New guanidino- and urea modified dendrimers as potent solubilizers of misfolded prion protein aggregates at non-
cytotoxic concentration. Dependence on dendrimer generation and surface charge
Publication: Research - peer-review › Journal article – Annual report year: 2007

S-((5-Formyl-3,4-ethylenedioxy)thiophene-2-yl)-3-propionic acid: Relationship between low formyl group reactivity and crystal structure
Publication: Research - peer-review › Journal article – Annual report year: 2007

A robust, species cross-reactive, dendrimer based immunoassay for C-reactive protein with high sensitivity
Carbocations in action. Design, synthesis and evaluation of a highly acid sensitive naphthalene based backbone amide linker for solid phase synthesis
Pittelkow, M., Boas, U. & Christensen, J. B. 2006 In : Organic Letters. 8, p. 5817-5820
Publication: Research - peer-review › Journal article – Annual report year: 2006

Dendrimer based anti-infective and anti-inflammatory drugs
Publication: Research - peer-review › Journal article – Annual report year: 2006

Dendrimers: design, synthesis and chemical properties
Boas, U., Christensen, J. B. & Heegaard, P. M. H. 2006 In : Journal of Materials Chemistry. 16, 38, p. 3785-3798
Publication: Research - peer-review › Journal article – Annual report year: 2006

Dendrimers in medicine and biotechnology. New molecular tools
Publication: Research - peer-review › Book – Annual report year: 2006

Thiophene backbone amide linkers, a new class of easily prepared and highly acid-labile linkers for solid-phase synthesis
Publication: Research - peer-review › Journal article – Annual report year: 2006

The role of the peri-effect in synthesis and reactivity of highly substituted naphthaldehydes: Novel backbone amide linkers for solid-phase synthesis
Publication: Research - peer-review › Journal article – Annual report year: 2005

Alkoxy substituted naphthalene carboxaldehydes (NAL), novel backbone amide handles for solid-phase synthesis
Boas, U., Christensen, J. B. & Jensen, K. J. 2004 In : Journal of Combinatorial Chemistry. 6, p. 497-503
Publication: Research - peer-review › Journal article – Annual report year: 2004

Amyloid aggregates of the prion peptide PrP106-126 are destabilised by oxidation and by the action of dendrimers
Publication: Research - peer-review › Journal article – Annual report year: 2004

DENDRIMER CONJUGATES FOR SELECTIVE OF PROTEIN AGGREGATES
Heegaard, P. M. H. & Boas, U. 2004
Publication: Research › Patent – Annual report year: 2004

Dendrimers in drug research
Boas, U. & Heegaard, P. M. H. 2004 In : Chemical Society Reviews. 33, 1, p. 43-63
Publication: Research - peer-review › Journal article – Annual report year: 2004

Facile synthesis of aliphatic isothiocyanates and thioureas on solid phase using peptide coupling reagents
Publication: Research - peer-review › Journal article – Annual report year: 2004

PREPARATION OF CHEMICALLY WELL-DEFINED CARBOHYDRATE DENDRIMER CONJUGATES
Heegaard, P. M. H. & Boas, U. 2004
Publication: Research › Patent – Annual report year: 2004
TFFH as an excellent reagent for acylation of alcohols, thiols and dithiocarbamates
Publication: Research - peer-review › Journal article – Annual report year: 2004

A highly acid-labile thiophene backbone amide linker: T-BAL
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Poly(amidoamine)-dendrimer-stabilized Pd(0) nanoparticles as a catalyst for the Suzuki reaction
Pittelkow, M., Moth-Poulsen, K., Boas, U. & Christensen, J. B. 2003 In : Langmuir. 19, 18, p. 7682-7684
Publication: Research - peer-review › Journal article – Annual report year: 2003

Suzuki cross-coupling reaction with aromatic iodides catalyzed by PAMAM-dendrimer encapsulated Pd (0) nanoparticles
Pittelkow, M., Moth-Poulsen, K., Boas, U. & Christensen, J. B. 2003 In : Langmuir. 9, p. 7682-7684
Publication: Research - peer-review › Journal article – Annual report year: 2003

Highly acid-labile backbone amide linkers: o-BAL and T-BAL
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

New dendrimer - Peptide host - Guest complexes: Towards dendrimers as peptide carriers
Publication: Research - peer-review › Journal article – Annual report year: 2002

Studies in polymer assisted organic chemistry
Publication: Research › Ph.D. thesis – Annual report year: 2002

The ortho backbone amide linker (o-BAL) is an easily prepared and highly acid-labile handle for solid-phase synthesis
Boas, U., Brask, J., Christensen, J. B. & Jensen, K. J. 2002 In : Journal of combinatorial chemistry. 4, 3, p. 223-228
Publication: Research - peer-review › Journal article – Annual report year: 2002

Synthesis and properties of new thiourea functionalised poly (propylene imine) dendrimers and their role as hosts for urea functionalised guests
Publication: Research - peer-review › Journal article – Annual report year: 2001

Synthesis of thiophene-based building blocks via facile alpha-monolodination
Publication: Research - peer-review › Journal article – Annual report year: 2001

COUPLING OF LIPOPOLYSACCHARIDE-DERIVED CARBOHYDRATES ONTO SOLID SURFACES
Jakobsen, M. H., Boas, U., Jauho, E. S. & Heegaard, P. M. H. 2000
Publication: Research › Patent – Annual report year: 2000

Evaluation of a novel enzyme-linked immunosorbent assay for detection of antibodies against Salmonella, employing a stable coating of lipopolysaccharide-derived antigens covalently attached to polystyrene microwells
Publication: Research - peer-review › Journal article – Annual report year: 2000

Napthalene amide linkers (NAL), two new backbone amide handles for solid-phase synthesis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000
New technology for regiospecific covalent coupling of polysaccharide antigens in ELISA for serological detection
2000 In : Journal of Immunological Methods. 242, 1-2, p. 133-143
Publication: Research - peer-review › Journal article – Annual report year: 2000

Photochemical immobilization of anthraquinone conjugated oligonucleotides and PCR amplicons on solid surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2000

Serological detection of antibodies against Salmonella polysaccharides in ELISA employing a new method for coupling of polysaccharides
1999 Proceedings of the 3rd International Symposium of Epidemiology and Control of Salmonella in Pork. p. 67-68
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Serological detection of antibodies against Salmonella polysaccharides in ELISA employing a new method for coupling polysaccharides
1999
Publication: Research › Poster – Annual report year: 1999

Tetramethyl fluoroformamidinium hexafluorophosphate- an improved synthesis and some new uses
Publication: Research - peer-review › Journal article – Annual report year: 1998

New technology for covalent coupling of polysaccharide antigens in ELISA for serological surveillance
Jauho, E. S., Wiuff, C., Wredstrøm, K., Petersen, B., Boas, U., Andresen, L. O., Jacobsen, M. H. & Heegaard, P. M. H.
1997
Publication: Research › Poster – Annual report year: 1997

Solid phase coupling of unprotected reducing carbohydrates to the N-terminus of peptides
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

A new synthesis of aliphatic isothiocyanates from primary amines, convenient for in situ use
Publication: Research - peer-review › Journal article – Annual report year: 1995

Projects:

New dendrimer-based immunomodulators
Mirsharghi, S., Boas, U., Heegaard, P. M. H., Almdal, K., Christensen, J. B. & Malkoch, M.
15/08/2013 → 01/12/2016
Project: PhD

Anthelmintic resistance in parasitic nematodes of Danish cattle: Detection and control with special focus on Bioactive Plants
01/10/2012 → 29/09/2016
Project: PhD