Publications:

**Bioinformatics Tools for the Prediction of T-Cell Epitopes**
Publication: Research - peer-review › Book chapter – Annual report year: 2018

**Computational Tools for the Identification and Interpretation of Sequence Motifs in Immunopeptidomes**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Identification of the cognate peptide-MHC target of T cell receptors using molecular modeling and force field scoring**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Improved methods for predicting peptide binding affinity to MHC class II molecules**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Improved Prediction of Bovine Leucocyte Antigens (BoLA) Presented Ligands by Use of Mass-Spectrometry-Determined Ligand and in Vitro Binding Data**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Isolation and characterization of bacteriophages with therapeutic potential**
Publication: Research › Ph.D. thesis – Annual report year: 2018

**NetH2pan: A Computational Tool to Guide MHC peptide prediction on Murine Tumors**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Predicted MHC peptide binding promiscuity explains MHC class I 'hotspots' of antigen presentation defined by mass spectrometry eluted ligand data**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**The SysteMHC Atlas project**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Use of a Regression Model to Study Host-Genomic Determinants of Phage Susceptibility in MRSA**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**An Analysis of Natural T Cell Responses to Predicted Tumor Neoepitopes**
Publication: Research - peer-review › Journal article – Annual report year: 2017
ArrayPitope: Automated Analysis of Amino Acid Substitutions for Peptide Microarray-Based Antibody Epitope Mapping
Publication: Research - peer-review › Journal article – Annual report year: 2017

BepiPred-2.0: improving sequence-based B-cell epitope prediction using conformational epitopes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Breaking confinement: unconventional peptide presentation by major histocompatibility (MHC) class I allele HLA-A*02:01
Publication: Research - peer-review › Journal article – Annual report year: 2017

Citrullination only infrequently impacts peptide binding to HLA class II MHC
Publication: Research - peer-review › Journal article – Annual report year: 2017

Genomics of phages with therapeutic potential
Publication: Research › Ph.D. thesis – Annual report year: 2018

GibbsCluster: unsupervised clustering and alignment of peptide sequences
Publication: Research - peer-review › Journal article – Annual report year: 2017

Identification of immediate early gene products of bovine herpes virus 1 (BHV-1) as dominant antigens recognized by CD8 T cells in immune cattle
Publication: Research - peer-review › Journal article – Annual report year: 2017

Machine Learning Reveals a Non-Canonical Mode of Peptide Binding to MHC class II Molecules
Publication: Research - peer-review › Journal article – Annual report year: 2017

Metagenomic Analysis of Therapeutic PYO Phage Cocktails from 1997 to 2014
Publication: Research - peer-review › Journal article – Annual report year: 2017

MHC-I Ligand Discovery Using Targeted Database Searches of Mass Spectrometry Data: Implications for T-Cell Immunotherapies
Publication: Research - peer-review › Journal article – Annual report year: 2017

MiToS.jl: mutual information tools for protein sequence analysis in the Julia language
Publication: Research - peer-review › Journal article – Annual report year: 2016

MuPeXI: prediction of neo-epitopes from tumor sequencing data
Publication: Research - peer-review › Journal article – Annual report year: 2017

NetMHCpan-4.0: Improved Peptide-MHC Class I Interaction Predictions Integrating Eluted Ligand and Peptide Binding Affinity Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

NNAlign: a platform to construct and evaluate artificial neural network models of receptor-ligand interactions
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017
Protein features as determinants of wild-type glycoside hydrolase thermostability
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2015

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Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2015

Engineering a CTL-Tailored Replicon RNA Vaccine against PRRSV
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Expanding specificity of class I restricted CD8+ T cells for viral epitopes following multiple inoculations of swine with a human adenovirus vectored foot-and-mouth disease virus (FMDV) vaccine
Publication: Research - peer-review › Journal article – Annual report year: 2016

Gapped sequence alignment using artificial neural networks: application to the MHC class I system
Publication: Research - peer-review › Journal article – Annual report year: 2015

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Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

HostPhinder: A Phage Host Prediction Tool
Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2016

Improved pan-specific prediction of MHC class I peptide binding using a novel receptor clustering data partitioning strategy
Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2016
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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2015

Identification and HLA-Tetramer-Validation of Human CD4(+) and CD8(+) T Cell Responses against HCMV Proteins IE1 and IE2
Publication: Research - peer-review › Journal article – Annual report year: 2014

Immunoinformatics of Placental Malaria Vaccine Development
Publication: Research › Ph.D. thesis – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Uncovering the Peptide-Binding Specificities of HLA-C: A General Strategy To Determine the Specificity of Any MHC Class I Molecule
Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Book chapter – Annual report year: 2013

Epitope prediction methods
Publication: Research › Ph.D. thesis – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2013
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Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research - peer-review › Journal article – Annual report year: 2012

Characterizing the binding motifs of 11 common human HLA-DP and HLA-DQ molecules using NNAlign
Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Designing bovine T cell vaccines via reverse immunology
Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research › Ph.D. thesis – Annual report year: 2012

Disentangling evolutionary signals: conservation, specificity determining positions and coevolution. Implication for catalytic residue prediction
Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

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Publication: Research - peer-review › Journal article – Annual report year: 2012

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Induction of Foot-and-Mouth Disease Virus-Specific Cytotoxic T Cell Killing by Vaccination
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NNAlign: A Web-Based Prediction Method Allowing Non-Expert End-User Discovery of Sequence Motifs in Quantitative Peptide Data
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Publication: Research - peer-review › Journal article – Annual report year: 2011
Prediction of epitopes using neural network based methods
Publication: Research - peer-review › Journal article – Annual report year: 2010

CPHmodels-3.0--remote homology modeling using structure-guided sequence profiles
Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research › Poster – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

HLA Class I Binding 9mer Peptides from Influenza A Virus Induce CD4(+) T Cell Responses
Publication: Research - peer-review › Journal article – Annual report year: 2010

Identification of CD8(+) T Cell Epitopes in the West Nile Virus Polypeptide by Reverse-Immunology Using NetCTL
Publication: Research - peer-review › Journal article – Annual report year: 2010

In Silico Prediction of Human Pathogenicity in the gamma-Proteobacteria
Publication: Research - peer-review › Journal article – Annual report year: 2010

Interdisciplinary Analysis of HIV-Specific CD8(+) T Cell Responses against Variant Epitopes Reveals Restricted TCR Promiscuity
Publication: Research - peer-review › Journal article – Annual report year: 2010

Limitations of Ab Initio Predictions of Peptide Binding to MHC Class II Molecules
Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

MHC Class II epitope predictive algorithms
Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010
Structural Properties of MHC Class II Ligands, Implications for the Prediction of MHC Class II Epitopes
Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Research › Ph.D. thesis – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research › Poster – Annual report year: 2009

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Publication: Research › Poster – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

Peptide Binding to HLA Class I Molecules: Homogenous, High-Throughput Screening, and Affinity Assays
Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2009

Accurate approximation method for prediction of class I MHC affinities for peptides of length 8, 10 and 11 using prediction tools trained on 9mers
Publication: Research - peer-review › Journal article – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2008

Broadly Immunogenic HLA Class I Supertype-Restricted Elite CTL Epitopes Recognized in a Diverse Population Infected with Different HIV-1 Subtypes
Publication: Research - peer-review › Journal article – Annual report year: 2008

Humans with chimpanzee-like major histocompatibility complex-specificities control HIV-1 infection
Publication: Research - peer-review › Journal article – Annual report year: 2008
Immune epitope database analysis resource (IEDB-AR)
Publication: Research - peer-review › Journal article – Annual report year: 2008

MHC motif viewer
Publication: Research - peer-review › Journal article – Annual report year: 2008

NetMHC-3.0: accurate web accessible predictions of human, mouse and monkey MHC class I affinities for peptides of length 8-11
Publication: Research - peer-review › Journal article – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2008

The peptide-binding specificity of HLA-A*3001 demonstrates membership of the HLA-A3 supertype
Publication: Research - peer-review › Journal article – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2007

Large-scale validation of methods for cytotoxic T-lymphocyte epitope prediction
Publication: Research - peer-review › Journal article – Annual report year: 2007

Publication: Research - peer-review › Journal article – Annual report year: 2007

NetMHCPan, a method for quantitative predictions of peptide binding to any HLA-A and -B locus protein of known sequence
Publication: Research - peer-review › Journal article – Annual report year: 2007

Prediction of MHC class II binding affinity using SMM-align, a novel stabilization matrix alignment method
Publication: Research - peer-review › Journal article – Annual report year: 2007

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Publication: Research - peer-review › Journal article – Annual report year: 2006

Improved method for predicting linear B-cell epitopes
Publication: Research › Journal article – Annual report year: 2006

Modelling the human immune system by combining bioinformatics and systems biology approaches
Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006
The validity of predicted T-cell epitopes
Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

Definition of supertypes for HLA molecules using clustering of specificity matrices
Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2003

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Publication: Research - peer-review › Journal article – Annual report year: 2003

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Publication: Research - peer-review › Journal article – Annual report year: 2002

Web-based Tools for Vaccine Design
Publication: Research - peer-review › Book chapter – Annual report year: 2002

Sterol evolution and the physics of membranes
Publication: Research - peer-review › Journal article – Annual report year: 2000

Off-lattice model for the phase behavior of lipid-cholesterol bilayers
Publication: Research - peer-review › Journal article – Annual report year: 1999

The effect of cholesterol on the rupture of lipid membrane
Publication: Research - peer-review › Journal article – Annual report year: 1999

Projects:
T Cell Immunoinformatics
Project: PhD

Towards accurate prediction of T cell targets: Learning the rules of T cell receptor interaction
Project: PhD

Pre-clinical exploration of cancer neoepitope immunotherapy
Project: PhD

Metagenomic Data Stratified using Artificial Intelligence
Project: PhD

B-cell Immunoinformatics
Project: PhD

Development of Immunoinformatics prediction methods for improved understanding of TCR-peptide-MHC interactions
Project: PhD

The gut microbiota and bone dynamics
Project: PhD

High Performance Machine Learning Methods applied within Bioinformatics
Project: PhD

Combating Methicillin Resistant Staphylococcus aureus (MRSA) with bacteriophages
Project: PhD

Isolation and characterization of bacteriophages with therapeutic potential
Project: PhD

Human Personality - Identification of important genotypic and phenotypic factors for the development of an individual's personality
Project: PhD

Identification of the features contributing to immunodominance
Project: PhD

Prediction of antigen_BCR interactions based on high throughput peptide chip data and prediction of MHC-peptide-TCR Interactions
Project: PhD

Udvikling af featurebaseret in silico-metoder til diskrimination af immunogene og beskyttende antigener
Project: PhD

Epitope prediction methods
Project: PhD

Bioinformatics for high-density peptide microarrays
Project: PhD

T Cell Reactive Tetramers for Virus Infections in Pigs
Project
Development and Application of Potentials for Protein-Protein Interactions
Project: PhD

Materialedata og plasticitetsteori for COMPRECIT
Project: PhD