

Peter Kristensen  
Professor  
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## Forskningsprofil

The research of Peter Kristensen is centered on the technical development and application of methods that allow Darwinian evolution of proteins using directed evolution technologies.

The main scientific contributions have more specifically been in the area of recombinant antibodies and methods of isolating such antibodies from large libraries. In addition Peter Kristensen was the first to develop technologies which allow isolation of proteins with improved stabilities from large libraries of mutants. The interest to make technological developments based on recombinant antibodies and for manipulating protein stability and activity, were initiated while Peter Kristensen performed his post doc at the MRC-LMB in Cambridge in the group of Nobel Laureate Sir Greg Winter. However to justify technological development, the technology developed should be able to provide new insight or solve important problems and here we have especially focused attention at finding novel biomarkers which can be used in characterization of important human conditions, such as age related diseases and rare circulating cells in the blood, just to mention the most relevant example. Most recently, the research has involved the use of non-natural amino acids for immobilization and conjugation of recombinant antibodies and proteins of industrial interest and novel biosensors building on recombinant antibody technology.

## Kvalifikationer

Chemistry and Biotechnology, PhD, Aarhus University  
1992 → 2 okt. 1995  
Dimissionsdato: 2 okt. 1995

Chemistry and Biotechnology, MSc, Aarhus University  
1 sep. 1986 → 30 jun. 1992  
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## Ansættelse

### Professor

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#### **Lektor (MSK)**

Aarhus University  
Aarhus, Danmark  
1 jan. 2010 → 1 jan. 2017

#### **Lektor (MSK)**

Department of Molecular Biology and Genetics, Aarhus University, Gustav Wieds Vej 10, Aarhus, Denmark.  
1 jan. 2003 → 1 jan. 2010

#### **Senior Scientist**

Aarhus Universityhospital, Denmark  
1 jan. 2001 → 1 jan. 2002

#### **Forsknings lektor**

Department of Molecular Biology and Genetics, Aarhus University, Gustav Wieds Vej 10, Aarhus, Denmark.  
1 jan. 2000 → 1 jan. 2001

#### **Forsknings Adjunkt**

Department of Molecular Biology and Genetics, Aarhus University, Gustav Wieds Vej 10, Aarhus, Denmark.  
1 jan. 1998 → 1 jan. 2000

#### **Research Scientist**

Medical Research Council Centre, Laboratory for Molecular Biology (MRC-LMB)  
Cambridge, Storbritannien  
1 jan. 1997 → 1 jan. 1998

#### **Post-doctoral Fellow**

Medical Research Council Centre, Laboratory for Molecular Biology (MRC-LMB)  
Cambridge, Storbritannien  
1 jan. 1995 → 1 jan. 1997

## **Publikationer**

### **Crystalline and Amorphous Zeolitic Imidazolate Framework Nanoparticles for Controlled Drug Release**

Murimadugula, M. B., Smedskjær, M. M. & Kristensen, P., 26 maj 2025.

### **Structural trends in antibody-antigen binding interfaces: a computational analysis of 1833 experimentally determined 3D structures**

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### **EV biomarker discovery for ultra-early differential diagnosis of stroke**

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### **EV biomarker discovery for ultra-early differential diagnosis of stroke**

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### **Investigation of Fouling in Perfusion Cell Culture Processes Using Alternating Tangential Flow Filtration**

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### **Deep mining of antibody phage-display selections using Oxford Nanopore Technologies and Dual Unique Molecular Identifiers**

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### **VH-Based Mini Q-Body: A Novel Quench-Based Immunosensor**

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### **Identification of EV surface markers for diagnosis of stroke**

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### **Fra polyklonale til biosimilære antistoffer**

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Larsen, S. A., Meldgaard, T., Lykkemark, S., Mandrup, O. A. & Kristensen, P., 1 jan. 2015, I: *Journal of Cellular and Molecular Medicine*. 19, 8, s. 1939-1948 10 s.

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Lykkemark, S., Mandrup, O. A., Friis, N. A. & Kristensen, P., 1 nov. 2014, I: *mAbs*. 6, 6, s. 1551-1559 9 s.

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Jørgensen, M. L., Friis, N. A., Just, J., Madsen, P., Petersen, S. V. & Kristensen, P., 15 jan. 2014, I: *Microbial Cell Factories*. 13, 1, 9.

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#### VECTOR FOR SCREENING ANTIBODY

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