

Peter Kristensen  
Lektor  
Institut for Kemi og Biovidenskab  
Det Ingeniør- og Naturvidenskabelige Fakultet  
Sektion for Bioteknologi  
Bioengineering  
Medical Biotechnology  
**Postadresse:**  
Fredrik Bajers Vej 7  
H, 1-532  
9220  
Aalborg  
Danmark  
**E-mail:** pk@bio.aau.dk  
**Mobil:** +45 2036 9097



## 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, Department of Chemistry, University of Aarhus, Aarhus  
1992 → 2 okt. 1995

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

## Ansættelse

### Lektor

Institut for Kemi og Biovidenskab  
Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg, Danmark  
1 dec. 2017 → present

### Lektor

Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg Øst, Danmark  
1 dec. 2017 → present

### Lektor

Sektion for Bioteknologi  
Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg, Danmark  
1 dec. 2017 → present

### Bioengineering

Det Ingeniør- og Naturvidenskabelige Fakultet  
1 jan. 2019 → present

## **Medical Biotechnology**

Det Ingeniør- og Naturvidenskabelige Fakultet

1 jan. 2019 → present

## **Lektor (MSK)**

Department of Engineering, Aarhus University, Gustav Wieds Vej 10C, Aarhus C, DK-8000, Denmark.

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**

### **ReactELISA method for quantifying methylglyoxal levels in plasma and cell cultures**

Kold-Christensen, R., Jensen, K. K., Smedegård-Holmquist, E., Sørensen, L. K., Hansen, J., Jørgensen, K. A., Kristensen, P. & Johannsen, M., 1 sep. 2019, I : *Redox Biology*. 26, 101252.

### **Proof-of-concept for a kelvin-emitter on-chip temperature sensor for power semiconductors**

Baker, N., Iannuzzo, F., Beczkowski, S. & Kristensen, P. K., sep. 2019, *Proceedings of 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe)*. IEEE Signal Processing Society, 8914963. (2019 21st European Conference on Power Electronics and Applications, EPE 2019 ECCE Europe).

### **Rational Engineering of Hydratase from *Lactobacillus Acidophilus* Reveals Critical Residues Directing Substrate Specificity and Regioselectivity**

Eser, B. E., Poborsky, M., Dai, R., Kishino, S., Ljubic, A., Takeuchi, M., Jacobsen, C., Ogawa, J., Kristensen, P. & Guo, Z., 29 aug. 2019, I : *ChemBioChem*.

### **Insight into the structure and activity of surface-engineered lipase biofluids**

Zhou, Y., Jones, N. C., Pedersen, J. N., Pérez, B., Hoffmann, S. V., Petersen, S. V., Pedersen, J. S., Perriman, A., Kristensen, P., Gao, R. & Guo, Z., 9 jan. 2019, I : *ChemBioChem*.

**Incorporation of bacteriophages in polycaprolactone/collagen fibers for antibacterial hemostatic dual-function**

Cheng, W., Zhang, Z., Xu, R., Cai, P., Kristensen, P., Chen, M. & Huang, Y., 1 okt. 2018, I : Journal of Biomedical Materials Research - Part B Applied Biomaterials. 106, 7, s. 2588-2595 8 s.

**A Single-Domain Antibody Targeting Complement Component C5 Acts as a Selective Inhibitor of the Terminal Pathway of the Complement System and Thus Functionally Mimicks the C-Terminal Domain of the *Staphylococcus aureus* SSL7 Protein**

Yatime, L., Merle, N. S., Hansen, A. G., Friis, N. A., Østergaard, J. A., Bjerre, M., Roumenina, L. T., Thiel, S., Kristensen, P. & Andersen, G. R., 2018, I : Frontiers in Immunology. 9, NOV, 11 s., 02822.

**On-slide detection of enzymatic activities in selected single cells**

Keller, J. G., Tesauro, C., Coletta, A., Graversen, A. D., Ho, Y. P., Kristensen, P., Stougaard, M. & Knudsen, B. R., 28 sep. 2017, I : Nanoscale. 9, 36, s. 13546-13553 8 s.

**Pericyte modulation by a functional antibody obtained by a novel single-cell selection strategy**

Just, J., Lykkemark, S., Nielsen, C. H., Roshenas, A. R., Drasbek, K. R., Petersen, S. V., Bek, T. & Kristensen, P., 1 aug. 2017, I : Microcirculation. 24, 6, e12365.

**An anti vimentin antibody promotes tube formation**

Jørgensen, M. L., Møller, C. K., Rasmussen, L., Boisen, L., Pedersen, H. & Kristensen, P., 15 jun. 2017, I : Scientific Reports. 7, 1, 3576.

**A novel excision selection method for isolation of antibodies binding antigens expressed specifically by rare cells in tissue sections**

Lykkemark, S., Mandrup, O. A., Jensen, M. B., Just, J. & Kristensen, P., 1 jun. 2017, I : Nucleic Acids Research. 45, 11, s. e107

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**Targeting of phage particles towards endothelial cells by antibodies selected through a multi-parameter selection strategy**

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**ReactELISA - a novel approach to monitoring lipid metabolism**

Keiding, U., Holmquist, E. F., Jørgensen, K. A., Kristensen, P. & Johannsen, M., 31 aug. 2016.

**Raising an antibody specific to breast cancer subpopulations using phage display on tissue sections**

Larsen, S. A., Meldgaard, T., Fridriksdottir, A. J. R., Lykkemark, S., Poulsen, P. C., Overgaard, L. F., Petersen, H. B., Petersen, O. W. & Kristensen, P., 1 jan. 2016, I : Cancer Genomics and Proteomics. 13, 1, s. 21-30 10 s.

**Identification of an unstable 4-hydroxynoneal modification on the 20S proteasome subunit  $\alpha 7$  by recombinant antibody technology.**

Just, J., Jung, T., Friis, N. A., Lykkemark, S., Drasbek, K., Siboska, G., Grune, T. & Kristensen, P., 1 dec. 2015, I : Free Radical Biology and Medicine. 89, s. 786-792 7 s.

**MARK-AGE biomarkers of ageing**

Bürkle, A., Moreno-Villanueva, M., Bernhard, J., Blasco, M., Zondag, G., Hoeijmakers, J. H. J., Toussaint, O., Grubeck-Loebenstein, B., Mocchegiani, E., Collino, S., Gonos, E. S., Sikora, E., Gradinaru, D., Dollé, M., Salmon, M., Kristensen, P., Griffiths, H. R., Libert, C., Grune, T., Breusing, N. & 10 flere, Simm, A., Franceschi, C., Capri, M., Talbot, D., Caiafa, P., Friguet, B., Slagboom, P. E., Hervonen, A., Hurme, M. & Aspinall, R., 1 nov. 2015, I : Mechanisms of Ageing and

Development. 151, s. 2-12 11 s.

#### **Selection of a breast cancer subpopulation-specific antibody using phage display on tissue sections**

Larsen, S. A., Meldgaard, T., Fridriksdottir, A. J., Lykkemark, S., Poulsen, P. C., Overgaard, L. F., Petersen, H. B., Petersen, O. W. & Kristensen, P., 18 jul. 2015, I : Immunologic Research. 62, 3, s. 263-272 10 s.

#### **Selection of cell-type specific antibodies on tissue-sections using phage display**

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.

#### **Selection strategies for anticancer antibody discovery: Searching off the beaten path**

Sánchez-Martín, D., Sørensen, M. D., Lykkemark, S., Sanz, L., Kristensen, P., Ruoslahti, E. & Álvarez-Vallina, L., 1 jan. 2015, I : Trends in Biotechnology. 33, 5, s. 292-301 10 s.

#### **Novel ageing-biomarker discovery using data-intensive technologies**

Griffiths, H. R., Augustyniak, E. M., Bennett, S. J., Debacq-Chainiaux, F., Dunston, C. R., Kristensen, P., Melchjorsen, C. J., Navarrete, S. A., Simm, A. & Toussaint, O., 12 dec. 2014, I : Mechanisms of Ageing and Development. 151, s. 114-121 8 s.

#### **Degradation of C-terminal tag sequences on domain antibodies purified from E. coli supernatant**

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#### **Expression of single-chain variable fragments fused with the Fc-region of rabbit IgG in Leishmania tarentolae**

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#### **Are endothelial outgrowth cells a potential source for future re-vascularization therapy?**

Bertelsen, L. B., Bohn, A. B., Smith, M., Mølgaard, B., Møller, B., Stødkilde-Jørgensen, H. & Kristensen, P., 1 jan. 2014, I : Experimental Gerontology. 58, s. 132-138 7 s.

#### **The co-occurrence of mtDNA mutations on different oxidative phosphorylation subunits, not detected by haplogroup analysis, affects human longevity and is population specific**

Raule, N., Sevini, F., Li, S., Barbieri, A., Tallaro, F., Lomartire, L., Vianello, D., Montesanto, A., Moilanen, J. S., Bezrukov, V., Blanché, H., Hervonen, A., Christensen, K., Deiana, L., Gonos, E. S., Kirkwood, T. B. L., Kristensen, P., Leon, A., Pelicci, P. G., Poulain, M. & 18 flere, Rea, I. M., Remacle, J., Robine, J. M., Schreiber, S., Sikora, E., Eline Slagboom, P., Spazzafumo, L., Antonietta Stazi, M., Toussaint, O., Vaupel, J. W., Rose, G., Majamaa, K., Perola, M., Johnson, T. E., Bolund, L., Yang, H., Passarino, G. & Franceschi, C., 1 jan. 2014, I : Aging Cell. 13, 3, s. 401-407 7 s.

#### **A Novel Heavy Domain Antibody Library with Functionally Optimized Complementarity Determining Regions**

Mandrup, O. A., Friis, N. A., Lykkemark, S., Just, J. & Kristensen, P., 8 okt. 2013, I : PLOS ONE. 8, 10, e76834.

#### **Raising antibodies against circulating foetal cells from maternal peripheral blood**

Sørensen, M. D., Melchjorsen, C. J., Mandrup, O. A. & Kristensen, P., 1 mar. 2013, I : Prenatal Diagnosis. 33, 3, s. 284-291 8 s.

#### **How to classify the oldest old according to their health status: A study on 1160 subjects belonging to 552 90+ Italian sibships characterized by familial longevity recruited within the GEHA EU Project**

Cevenini, E., Cotichini, R., Stazi, M. A., Taccaceli, V., Scurti, M., Mari, V., Berardelli, M., Passarino, G., Jeune, B., Franceschi, C., Bezrukov, V., Blanché, H., Bolund, L., Christensen, K., Deiana, L., Gonos, E., Hervonen, A., Kirkwood, T. B. L., Kristensen, P., Leon, A. & 12 flere, Pelicci, P. G., Perola, M., Poulain, M., Rea, I. M., Remacle, J., Robine, J. M., Schreiber, S., Sikora, E., Slagboom, P. E., Spazzafumo, L., Toussaint, O. & Vaupel, J. W., 1 jan. 2013, I : Mechanisms of Ageing and Development. 134, 11-12, s. 560-569 10 s.

#### **DETECTION OF FETAL CELLS FROM MATERNAL BLOOD**

Koelvraa, S., Christensen, B., Schelde, P., Sorensen Morten, D. & Kristensen, P., 22 mar. 2012, IPC nr. G01N 33/ 82 A I, Patentnr. US2012070827, Prioritetsdato 27 jun. 2011, Prioritetsnr. US201113169922

**Selection of antibodies against CD117pos/CD45neg cardiomyocyte progenitor stem cells using phage display**  
Larsen, J. R., Young, J. F., Hokland, M. & Kristensen, P., 11 feb. 2012.

**Identification and analysis of cell-specific biomarkers of breast cancer subpopulations by recombinant antibody selection**  
Larsen, S. A., Meldgaard, T. E. M., Mandrup, O. A., Olesen, C., Fridriksdottir, A., Holst, B. & Kristensen, P., 23 jan. 2012.

**Modular and aggregation resistant Vh antibodies from a phage display library**  
Friis, N. A., Mandrup, O. A., Lykkemark, S., Castrillon, C. & Kristensen, P., 23 jan. 2012.

**Selection of Cell specific antibodies using Antibody Phage Display**  
Just, J., Lykkemark, S. & Kristensen, P., 2012.

**Selection of Recombinant Antibodies against CNS pericytes using Phage Display**  
Just, J., Lykkemark, S., Drasbek, K. R. & Kristensen, P., 2012.

**Design, recruitment, logistics, and data management of the GEHA (Genetics of Healthy Ageing) project**  
Skytthe, A., Valensin, S., Jeune, B., Cevenini, E., Balard, F., Beekman, M., Bezrukov, V., Blanche, H., Bolund, L., Broczek, K., Carru, C., Christensen, K., Christiansen, L., Collerton, J. C., Cotichini, R., de Craen, A. J. M., Dato, S., Davies, K., De Benedictis, G., Deiana, L. & 30 flere, Flachsbart, F., Gampe, J., Gilbault, C., Gonos, E. S., Haimes, E., Hervonen, A., Hurme, M. A., Janiszewska, D., Jylhä, M., Kirkwood, T. B. L., Kristensen, P., Laiho, P., Leon, A., Marchisio, A., Masciulli, R., Nebel, A., Passarino, G., Pelicci, G., Peltonen, L., Perola, M., Poulain, M., Rea, I. M., Remacle, J., Robine, J. M., Schreiber, S., Scurti, M., Sevini, F., Sikora, E., Skouteri, A. & Slagboom, P. E., 1 nov. 2011, I : Experimental Gerontology. 46, 11, s. 934-945 12 s.

**Selection of antibodies against a single rare cell present in a heterogeneous population using phage display**  
Sørensen, M. D. & Kristensen, P., 1 jan. 2011, I : Nature Protocols. 6, 4, s. 509-522 14 s.

**Confronting cellular heterogeneity in studies of protein metabolism and homeostasis in aging research**  
Boisen, L. & Kristensen, P., 1 dec. 2010, *Protein Metabolism and Homeostasis in Aging*. s. 234-244 11 s. (Advances in Experimental Medicine and Biology, Bind 694).

**Somatic point mutations in mtDNA control region are influenced by genetic background and associated with healthy aging: a GEHA study**  
Rose, G., Romeo, G., Dato, S., Crocco, P., Bruni, A. C., Hervonen, A., Majamaa, K., Sevini, F., Franceschi, C., Passarino, G., Consortium, GE. O. H. A. P., Kristensen, P. & Bolund, L., 14 okt. 2010, I : P L o S One.

**Evaluation of endothelial cell culture as a model system of vascular ageing**  
Boisen, L., Drasbek, K. R., Pedersen, A. S. & Kristensen, P., 1 okt. 2010, I : Experimental Gerontology. 45, 10, s. 779-787 9 s.

**Microselection - affinity selecting antibodies against a single rare cell in a heterogeneous population**  
Sørensen, M. D., Agerholm, I. E., Christensen, B., Kølvråa, S. & Kristensen, P., 1 jul. 2010, I : Journal of Cellular and Molecular Medicine. 14, 7, s. 1953-1961 9 s.

**The activity of the proteasome during the lifespan of Caenorhabditis elegans and its relation to longevity**  
Larsen, S. A., Olsen, A., Gems, D., Drasbek, K. R. & Kristensen, P., 2010. 1 s.

**Epsilon haemoglobin specific antibodies with applications in noninvasive prenatal diagnosis**  
Sørensen, M. D., Gonzalez Dosal, R., Jensen, K. B., Christensen, B., Kølvråa, S., Jensen, U. B. & Kristensen, P., 24 aug. 2009, I : Journal of Biomedicine and Biotechnology. 2009, 659219.

**VECTOR FOR SCREENING ANTIBODY**  
Kawakami, M., Ueda, H., Ihara, M., Kojima, M. & Kristensen, P., 20 aug. 2009, IPC nr. C12N 15/ 62 A I, Patentnr. WO2009102080, Prioritetsdato 14 feb. 2008, Prioritetsnr. JP20080032941

## **SELECTION SYSTEM**

Reichmann, L., Kristensen, P., Jestin, J-L. & Winter Gregory, P., 13 aug. 2009, IPC nr. C40B 40/ 02 A I, Patentnr. US2009203542, Prioritetsdato 7 okt. 2008, Prioritetsnr. US20080246741

## **A compact phage display human scFv library for selection of antibodies to a wide variety of antigens**

Pansri, P., Jaruseranee, N., Rangnoi, K., Kristensen, P. & Yamabhai, M., 29 jan. 2009, I : BMC Biotechnology. 9, 6.

## **Hormetic modulation of differentiation of normal human epidermal keratinocytes undergoing replicative senescence in vitro**

Berge, U., Kristensen, P. & Rattan, S. I. S., 1 jul. 2008, I : Experimental Gerontology. 43, 7, s. 658-662 5 s.

## **Inhibition of the proteolytic activity of pregnancy-associated plasma protein-A by targeting substrate exosite binding**

Mikkelsen, J. H., Gyurup, C., Kristensen, P., Overgaard, M. T., Poulsen, C. B., Laursen, L. S. & Oxvig, C., 13 jun. 2008, I : Journal of Biological Chemistry. 283, 24, s. 16772-16780 9 s.

## **Open Sandwich ELISA Libraries**

Kristensen, P., Ueda, H., Kojima, M., Ihara, M. & Kawakami, M., 2008, Patentnr. JP2008-032941

## **Unspecific uptake of M13-type bacteriophage into human endothelial cell lines**

Mandrup, O. A. & Kristensen, P., 2008.

## **Genetics of healthy aging in Europe: The EU-integrated project GEHA (GEnetics of Healthy Aging)**

Franceschi, C., Bezrukov, V., Blanché, H., Bolund, L., Christensen, K., De Benedictis, G., Deiana, L., Gonos, E., Hervonen, A., Yang, H., Jeune, B., Kirkwood, T. B. L., Kristensen, P., Leon, A., Pelicci, P. G., Peltonen, L., Poulain, M., Rea, I. M., Remacle, J., Robine, J. M. & 7 flere, Schreiber, S., Sikora, E., Slagboom, P. E., Spazzafumo, L., Stazi, M. A., Toussaint, O. & Vaupel, J. W., 1 jan. 2007, *Biogerontology: Mechanisms and Interventions*. Wiley-Blackwell, s. 21-45 25 s. (Annals of the New York Academy of Sciences, Bind 1100).

## **Ageing and Angiogenesis**

Boisen, L., Rattan, S. I. S. & Kristensen, P., 2007.

## **CHARACTERISATION OF PROTEASOME GLYCATION DURING AGEING USING PHAGE DISPLAYED ANTIBODIES**

Drasbek, K. R., Sejersen, H., Gonzalez-Dosal, R. & Kristensen, P., 2007.

## **Detection of foetal cells from maternal blood**

Kristensen, P., Dræby Sørensen, M., Kølvrå, S., Christensen, B. & Schelde, P., 2007, Patentnr. WO/2007/065438

## **Inhibition of tumor angiogenesis using scFv antibodies**

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## **Modulation of Angiogenesis by Heat Shock in Mortal and Immortal Human Endothelial Cells**

Luo, W., Kristensen, P. & Rattan, S. I. S., 2007.

## **Phage Antibody Technology Applied to identify New Molecular Targets on Ln-5 Positive Malignant Cells**

Sang, L., Galsgaard, E., Mathiasen, I. S. & Kristensen, P., 2007.

## **Enhancement of DNA vaccine potency through linkage of antigen to filamentous bacteriophage coat protein III domain I**

Cuesta, Á. M., Suárez, E., Larsen, M., Jensen, K. B., Sanz, L., Compte, M., Kristensen, P. & Álvarez-Vallina, L., 1 apr. 2006, I : Immunology. 117, 4, s. 502-506 5 s.

## **POLYPEPTIDE**

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Berge, U., Kristensen, P. & Rattan, S. I. S., 1 jan. 2006, I : Annals of the New York Academy of Sciences. 1067, 1, s. 332-336 5 s.

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Gonzalez-Dosal, R., Sørensen, M. D., Clark, B. F. C., Rattan, S. I. S. & Kristensen, P., 1 jan. 2006, I : Annals of the New York Academy of Sciences. 1067, 1, s. 474-478 5 s.

**Severe acute respiratory syndrome (SARS): Development of diagnostics and antivirals**

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**Understanding and modulating aging**

Rattan, S. I. S., Kristensen, P. & Clark, B. F. C., 1 jan. 2006, I : Annals of the New York Academy of Sciences. 1067, 1

**Multivalent display system on filamentous bacteriophage pVII minor coat protein**

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**Isolation of recombinant phage-displayed antibodies recognizing skin keratinocytes.**

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**Multivalent antibody fragments toward the tumor-associated core-1 disaccharide generated by phage display of multimeric scFv repertoires**

Danielczyk, A., Kristensen, P., Karsten, U. & Goletz, S., 2005, I : Plant Molecular Biology.

**Isolation of high-affinity human IgE and IgG antibodies recognising Bet v 1 and Humicola lanuginosa lipase from combinatorial phage libraries**

Jakobsen, C. G., Bodtger, U., Kristensen, P., Poulsen, L. K. & Roggen, E. L., 1 aug. 2004, I : Molecular Immunology. 41, 10, s. 941-953 13 s.

**Stabilization of antibody V<sub>H</sub>-domains by proteolytic selection**

Ueda, H., Kristensen, P. & Winter, G., 1 jun. 2004, I : Journal of Molecular Catalysis B: Enzymatic. 28, 4-6, s. 173-179 7 s.

**ACTIVE FUSION PROTEINS AND METHOD FOR THE PRODUCTION THEREOF**

Goletz, S., Larsen, M., Christensen, Peter, A., Jensen, Kim, B. & Kristensen, P., 4 mar. 2004, IPC nr. C12N 15/ 62 A I, Patentnr. WO2004018685, Prioritetsdato 20 aug. 2002, Prioritetsnr. DE2002138846

**Isolation of high-affinity human IgE and IgG antibodies recognising Bet v 1 and H. lanuginosa lipase from combinatorial phage libraries**

Jakobsen, C. G., Bodtger, U., Kristensen, P., Poulsen, L. K. & Roggen, E. L., 2004, I : Mol. Immun..

**Isolation of phage display antibodies recognising epidermal skin keratinocyte**

Jensen, K. B. & Kristensen, P., 2004, I : Meth. Mol. Biol.. 289, s. 359-370 12 s.

**A novel cell binding site in the coiled-coil domain of laminin involved in capillary morphogenesis**

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**Identification of keratinocyte-specific markers using phage display and mass spectrometry.**

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**Generation and characterization of recombinant human antibodies specific for native laminin epitopes: Potential application in cancer therapy**

Sanz, L., Kristensen, P., Russell, S. J., Ramirez García, J. & Álvarez-Vallina, L., 1 dec. 2001, I : Cancer Immunology, Immunotherapy. 50, 10, s. 557-565 9 s.

**Method for the isolation of large variances of specific molecules for a target molecule from phagemid gene libraries, and a test kit**

Goletz, S., Christensen, P. A. & Kristensen, P., 2001, Patentnr. US2004214242

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