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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

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Det Ingeniør- og Naturvidenskabelige Fakultet
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Medical Biotechnology

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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)

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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

Effects of the engineering of a single binding pocket residue on specificity and regioselectivity of hydratases from *Lactobacillus Acidophilus*

Zhang, Y., Eser, B. E., Kougioumtzoglou, G., Eser, Z., Poborsky, M., Kishino, S., Takeuchi, M., Ogawa, J., Kristensen, P. & Guo, Z., jul. 2021, I: *Biochemical Engineering Journal*. 171, 108006.

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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., 15 maj 2019, I: *ChemBioChem*. 20, 10, s. 1266-1272 7 s.

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Keller, J. G., Tesaro, 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.

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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.

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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

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Identification and analysis of cell-specific biomarkers of breast cancer subpopulations by recombinant antibody selection

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Friis, N. A., Mandrup, O. A., Lykkemark, S., Castrillon, C. & Kristensen, P., 23 jan. 2012.

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Evaluation of endothelial cell culture as a model system of vascular ageing

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Larsen, S. A., Olsen, A., Gems, D., Drasbek, K. R. & Kristensen, P., 2010. 1 s.

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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.

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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

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

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Ageing and Angiogenesis

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