

CURRICULUM VITAE

PETER HEDEGAARD RAVN

Personal data:

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| Citizenship: | Danish |
| Born: | 29.11 1972 |

Academic Degrees:

- 1999 M. Sc. (cand. Scient, Biostructural Chemistry) University of Aarhus. Supervision by Professor Brian F. C. Clark.
- 2003 Expected Ph.D. (Biochemistry) Free University, Berlin, Germany. Supervision by Dr. Uwe Karsten and Professor Ferdinand Hucho. (immatriculated 01.09.2000).

Academic Work:

- 1995 Exchange student at University of Texas, Austin. Participated in lectures and seminars and performed work in the laboratory Brent L. Iverson, Assistant Professor (<http://www.cm.utexas.edu/faculty/profiles/Iverson.html>). The work was primarily focused on antibody engineering (scFv), expression, purification and characterisation using the "affinity biosensor system", IAsys.
- 1996 Master thesis:
 Collaboration with Jan Engberg, Danmarks Farmaceutisk Højskole on: "Application of Dual phage display in the study of differential gene expression"
 Collaboration with Dr. Vilhelm A. Bohr, Laboratory of Molecular Genetics, National Institutes on Ageing, NIH, Baltimore, MA: "Selection of phage antibodies specific for the Werner protein using protein fragments as bait".
- 1998 3 month scientific exchange at the Laboratory of Molecular Genetics, National Institutes on Ageing, NIH, Baltimore, MA.
- 1999 Research assistant at Department of Molecular and Structural Biology. University of Aarhus, DK: "Cloning, expression and purification of scFv diabodies".
- 2000 Ph.D. student at Max-Delbrück-Centrum für Molekulare Medizin (MDC), Berlin-Buch, Germany: "Generation of antibody fragments toward the tumour-associated Thomsen-Friedenreich disaccharide".
- 2000 Research assistant at NEMOD GmbH, Biomedizinische Diagnostik und Therapie, Berlin: "Phage display related projects" (01.03.2000-01.09.2000)
- 2003 Research assistant at NEMOD GmbH, Biomedizinische Diagnostik und Therapie, Berlin: "Antibody humanisation and optimisation" (01.09.2003-)

Publikations:

“Finding new specificities by chain shuffling of heavy and light chains”

Christensen, P.A., **Ravn, P.**, Danielczyk, A., Karsten, U., Goletz, S.

In preparation

“Tumour targeting with a ¹¹¹In labelled scFv specific for the Thomsen-Friedenreich disaccharide”

Ravn, P., Stahn, R., Danielczyk, A., Karsten, U., Goletz, S.

Cancer Research, In preparation

“Expression and characterisation of a Thomsen-Friedenreich disaccharide specific scFv”

Ravn, P., Stahn, R., Danielczyk, A., Karsten, U., Goletz, S.

In preparation

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

Ravn, P., Danielczyk, A., Jensen, K. B., Kristensen, P., Karsten, U., Goletz, S.

Journal of Molecular Biology, ready for submission

“Functionally Fused Antibodies – A novel adjuvant fusion system”

Larsen, M., Jensen, K.B., Christensen, P.A., Sanz, L., Suarez, A., Löffler, A., **Ravn, P.**, Alvarez-Vallina, L.,

Goletz, S., Clark, B.F.C., Kristensen, P.

Journal of Immunology, Submitted

“Thomsen-Friedenreich Antigen: The “Hidden” tumour antigen”

Goletz, S., Cao, Y., Danielczyk, A., **Ravn, P.**, Schöber, U., Karsten, U.

Glycobiology and Medicine (Kluver press) 147-162, 2003

Identification of Keratinocyte-specific Markers Using Phage Display and Mass Spectrometry

Jensen, K. B., Jensen, O. N., **Ravn, P.**, Clark, B. F., Kristensen, P.

Molecular and cellular proteomics 2, 61-69, 2003

“Generation and epitope mapping of high-affinity scFv to eukaryotic elongation factor 1A by dual application of phage display”

Kjaer, S., Wind, T., **Ravn, P.**, Ostergaard, M., Clark, B. F., Nissim, A.

European Journal of Biochemistry 268(12), 3407-15, 2001

“Applying the phage display technology in the ageing research”

Kristensen, P., **Ravn, P.**, Jensen, KH., Jensen, KB.

Biogerontology 1: 67-78, 2000.

“Identification of phage antibodies toward the Werner protein by selection on Western blots”

Ravn, P., Kjær, S., Jensen, K. H., Wind, T., Jensen, K. B., Kristensen, P., Brosh, R. M., Orren, D. K., Bohr, V.

A., Clark, B. F. C.

Electrophoresis 21(3), 509-516, 2000

“Functional and physical interaction between WRN helicase and human replication protein A”

Brosh, R. M., Jr., Orren, D. K., Nehlin, J. O., **Ravn, P. H.**, Kenny, M. K., Machwe, A., Bohr, V. A.

Journal of Biological Chemistry 274, 18341-50, 1999

“Introduction to Phage Display”

Ravn, P.

Phage display, 1-34 (Teaching material for the phage display course at university of Aarhus) 1999

“Glycerol diversifies phage repertoire selections and lowers non- specific phage absorption”

Kjaer, S., Stausbol-Gron, B., Wind, T., **Ravn, P.**, Hobolt Jensen, K., Kahns, L., and Clark, B. F.

FEBS Letters 431, 448-52, 1998