



Senior scientist, Adj. professor Stig Purup

Department of Animal and Veterinary Sciences, Aarhus University, DK

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Academic degrees: PhD Medicine 1995, MSc Biology 1985, BSc Mathematics 1987

Employments and honnors:

2020 Adjunct professor at Dept. Chemistry and Bioscience, Aalborg University, Denmark
2011-ongoing Senior scientist MSK, Dept. Animal and Veterinary Sciences (ANIVET), AU
2009-2011 Senior scientist MSK, Dept. Animal Health and Bioscience, AU
1997-2009 Senior scientist, Dept. Animal Nutrition and Physiology, AU

Research in brief:

Focus is applied cell biology, endocrinology, physiology, gastroenterology, and nutrition in animals and humans during health and disease. Specific focus areas are: i) Cellular agriculture – in vitro milk based on cultured cells; ii) Cell-based screening for bioactive components in complex natural mixtures like serum, milk, hydrolysates and tissue extracts; iii) Effects of bioactive or nutritional components by cell-based models from human and animal tissues (Portfolio > 30 primary cells or cell lines of normal or transformed cells); iv) Lactation and gut physiology in farm animals and humans with focus on significance of nutrition and physiological development; v) Impact of nutritional components on intestinal epithelial integrity and intracellular signaling proteins; vi) Bioengineered bacteria for targeted drug delivery to the GI-tract; vii) Impact of gut bacteria on human metabolism by in vitro screening technologies; viii) Integrity of the GI-tract in relation to inflammatory bowel disease (IBD) by use of animal models and cell-based assays; ix) Biobanking as a conservation tool. Establishment of cell lines from endangered animal species.

Research residences:

1993: Virginia Polytechnic Institute and State University, Virginia, USA; 1998: University of Vermont, Dept. Animal Science, Burlington, USA; 2001: Cornell University, Ithaca, New York, USA; 2002-2003: Biotechnology company TGR BioSciences Pty Ltd, Adelaide, Australia

Management: Experience in fund raising, research management and coordination after receipt of >100 mio. DKK (14 mio. Euro) as project leader or responsible for project WPs. Chair of 18 PhD defenses and internal examiner of 18 PhD Qualification exams.

Supervision and education

Supervisor for PhD students (currently 2), post docs (currently 3) and MSc students. Course responsible for the course Cellen 1/Dyrecellen 1 for Veterinary students and Animal Sciences students (currently 50 students). Teaching bachelor, master and PhD students at Aarhus University, and Aalborg University, Denmark, and Milano University, Italy. Courses/subjects include Biotechnology, Cloning of Livestock Animals by Nuclear Transplantation with Somatic Cells, Bioactive Components in Food, Applied Cell Biology, Cellular agriculture and Future Animal-based Foods.

Summary publication and bibliometric information:

301 publications, of these 132 peer reviewed articles; H-index=35, 4103 citations (Web of science); H-index 45, 6798 citations, i10 index=95 (Google Scholar).