

## Publications from CMIC and CMIC users

### 2016

Valla, M., L. J. Vatten, M. J. Engstrom, O. A. Haugen, L. A. Akslen, J. H. Bjorngaard, A. I. Hagen, B. Ytterhus, A. M. Bofin and S. Opdahl (2016). "Molecular Subtypes of Breast Cancer: Long-term Incidence Trends and Prognostic Differences." *Cancer Epidemiol Biomarkers Prev* 25(12): 1625-1634.

Orning, P., K. S. Hoem, A. E. Coron, G. Skjak-Braek, T. E. Mollnes, O. L. Brekke, T. Espenvik and A. M. Rokstad (2016). "Alginate microsphere compositions dictate different mechanisms of complement activation with consequences for cytokine release and leukocyte activation." *J Control Release* 229: 58-69.

Moura Rosa, P., N. Gopalakrishnan, H. Ibrahim, M. Haug and O. Halaas (2016). "The intercell dynamics of T cells and dendritic cells in a lymph node-on-a-chip flow device." *Lab Chip* 16(19): 3728-3740.

Kim, E., H. M. Tunset, J. Cebulla, R. Vettukattil, H. Helgesen, A. J. Feuerherm, O. Engebraten, G. M. Maelandsmo, B. Johansen and S. A. Moestue (2016). "Anti-vascular effects of the cytosolic phospholipase A2 inhibitor AVX235 in a patient-derived basal-like breast cancer model." *BMC Cancer* 16: 191.

Iversen, O. J., H. Lysvand and G. Slupphaug (2016). "Pso p27, a SERPINB3/B4-derived protein, is most likely a common autoantigen in chronic inflammatory diseases." *Clin Immunol* 174: 10-17.

Hill, D. K., E. Kim, J. R. Teruel, Y. Jamin, M. Wideroe, C. D. Sogaard, O. Storkersen, D. N. Rodrigues, A. Heindl, Y. Yuan, T. F. Bathan and S. A. Moestue (2016). "Diffusion-weighted MRI for early detection and characterization of prostate cancer in the transgenic adenocarcinoma of the mouse prostate model." *J Magn Reson Imaging* 43(5): 1207-1217.

Haukaas, T. H., S. A. Moestue, R. Vettukattil, B. Sitter, S. Lamichhane, R. Segura, G. F. Giskeodegard and T. F. Bathan (2016). "Impact of Freezing Delay Time on Tissue Samples for Metabolomic Studies." *Front Oncol* 6: 17.

Grosse, S., J. Stenvik and A. M. Nilsen (2016). "Iron oxide nanoparticles modulate lipopolysaccharide-induced inflammatory responses in primary human monocytes." *Int J Nanomedicine* 11: 4625-4642.

Capa, M., K. J. Osborn and T. Bakken (2016). "Sphaerodoridae (Annelida) of the deep Northwestern Atlantic, including remarkable new species of Euritmia and Sphaerephesia." *Zookeys*(615): 1-32.

Arlov, O., G. Skjak-Braek and A. M. Rokstad (2016). "Sulfated alginate microspheres associate with factor H and dampen the inflammatory cytokine response." *Acta Biomaterialia* 42: 180-188.

Vange, P., T. Bruland, V. Beisvag, S. E. Erlandsen, A. Flatberg, B. Doseth, A. K. Sandvik and I. Bakke (2015). "Genome-wide analysis of the oxyntic proliferative isthmus zone reveals ASPM as a possible gastric stem/progenitor cell marker over-expressed in cancer." *Journal of Pathology* 237(4): 447-459.

Teruel, J. R., P. E. Goa, T. E. Sjobakk, A. Ostlie, H. E. Fjosne and T. F. Bathan (2015). "Diffusion weighted imaging for the differentiation of breast tumors: From apparent diffusion coefficient to high order diffusion tensor imaging." *J Magn Reson Imaging*.

## 2015

Pettersen, H. S., A. Galashevskaya, B. Doseth, M. M. Sousa, A. Sarno, T. Visnes, P. A. Aas, N. B. Liabakk, G. Slupphaug, P. Saetrom, B. Kavli and H. E. Krokan (2015). "AID expression in B-cell lymphomas causes accumulation of genomic uracil and a distinct AID mutational signature." *DNA Repair* (Amst) 25: 60-71.

Olaisen, C., R. Muller, A. Nedal and M. Otterlei (2015). "PCNA-interacting peptides reduce Akt phosphorylation and TLR-mediated cytokine secretion suggesting a role of PCNA in cellular signaling." *Cell Signal* 27(7): 1478-1487.

Nilsen, N. J., G. I. Vladimer, J. Stenvik, M. P. Orning, M. V. Zeid-Kilani, M. Bugge, B. Bergstroem, J. Conlon, H. Husebye, A. G. Hise, K. A. Fitzgerald, T. Espevik and E. Lien (2015). "A role for the adaptor proteins TRAM and TRIF in toll-like receptor 2 signaling." *J Biol Chem* 290(6): 3209-3222.

Kumar, R., K. M. Gronhaug, C. L. Davies, J. O. Drogset and M. B. Lilledahl (2015). "Nonlinear optical microscopy of early stage (ICRS Grade-I) osteoarthritic human cartilage." *Biomed Opt Express* 6(5): 1895-1903.

Kumar, R., K. M. Gronhaug, N. K. Afseth, V. Isaksen, C. de Lange Davies, J. O. Drogset and M. B. Lilledahl (2015). "Optical investigation of osteoarthritic human cartilage (ICRS grade) by confocal Raman spectroscopy: a pilot study." *Anal Bioanal Chem* 407(26): 8067-8077.

Klein, D. C., A. Skjesol, E. D. Kers-Rebel, T. Sherstova, B. Sporsheim, K. W. Egeberg, B. T. Stokke, T. Espevik and H. Husebye (2015). "CD14, TLR4 and TRAM Show Different Trafficking Dynamics During LPS Stimulation." *Traffic* 16(7): 677-690.

Jorgensen, A., A. Ekdahl, M. B. Havnes and I. Eftedal (2015). "Eccentric exercise 48 h prior to simulated diving has no effect on vascular bubble formation in rats." *Eur J Appl Physiol* 115(3): 597-605.

Gopalakrishnan, N., R. Hannam, G. P. Casoni, D. Barriet, J. M. Ribe, M. Haug and O. Halaas (2015). "Infection and immunity on a chip: a compartmentalised microfluidic platform to monitor immune cell behaviour in real time." *Lab Chip* 15(6): 1481-1487.

Formo, K., C. H. Cho, L. Vallier and B. L. Strand (2015). "Culture of hESC-derived pancreatic progenitors in alginate-based scaffolds." *Journal of Biomedical Materials Research Part A* 103(12): 3717-3726.

Cebulla, J., E. M. Huuse, K. Pettersen, A. van der Veen, E. Kim, S. Andersen, W. S. Prestvik, A. M. Bofin, A. P. Pathak, G. Bjorkoy, T. F. Bathen and S. A. Moestue (2015). "MRI reveals the in vivo cellular and vascular response to BEZ235 in ovarian cancer xenografts with different PI3-kinase pathway activity." *Br J Cancer* 112(3): 504-513.

Capa, M. and G. W. Rouse (2015). "Sphaerodoridae (Annelida) from Lizard Island, Great Barrier Reef, Australia, including the description of two new species and reproductive notes." *Zootaxa* 4019(1): 168-183.

Capa, M., L. Faroni-Perez and P. Hutchings (2015). "Sabellariidae from Lizard Island, Great Barrier Reef, including a new species of Lygdamis and notes on external morphology of the median organ." *Zootaxa* 4019(1): 184-206.

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Bergstrom, B., M. H. Aune, J. A. Awuh, J. F. Kojen, K. J. Blix, L. Ryan, T. H. Flo, T. E. Mollnes, T. Espevik and J. Stenvik (2015). "TLR8 Senses *Staphylococcus aureus*

RNA in Human Primary Monocytes and Macrophages and Induces IFN-beta Production via a TAK1-IKKbeta-IRF5 Signaling Pathway." *J Immunol* 195(3): 1100-1111.

Beckwith, M. S., K. S. Beckwith, P. Sikorski, N. T. Skogaker, T. H. Flo and O. Halaas (2015). "Seeing a Mycobacterium-Infected Cell in Nanoscale 3D: Correlative Imaging by Light Microscopy and FIB/SEM Tomography." *PLoS One* 10(9): e0134644.

Awuh, J. A., M. Haug, J. Mildenberger, A. Marstad, C. P. Do, C. Louet, J. Stenvik, M. Steigedal, J. K. Damas, O. Halaas and T. H. Flo (2015). "Keap1 regulates inflammatory signaling in *Mycobacterium avium*-infected human macrophages." *Proc Natl Acad Sci U S A* 112(31): E4272-4280.

## 2014

Torsvik, J., B. B. Johansson, M. Dalva, M. Marie, K. Fjeld, S. Johansson, G. Bjorkoy, J. Saraste, P. R. Njolstad and A. Molven (2014). "Endocytosis of Secreted Carboxyl-ester Lipase in a Syndrome of Diabetes and Pancreatic Exocrine Dysfunction." *J Biol Chem*.

Tangeras, L. H., G. S. Stodle, G. D. Olsen, A. H. Leknes, A. S. Gundersen, B. Skei, A. J. Vikdal, L. Ryan, B. Steinkjer, M. F. Myklebost, M. Langaas, R. Austgulen and A. C. Iversen (2014). "Functional Toll-like receptors in primary first-trimester trophoblasts." *J Reprod Immunol*.

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Samstad, E. O., N. Niyonzima, S. Nymo, M. H. Aune, L. Ryan, S. S. Bakke, K. T. Lappegard, O. L. Brekke, J. D. Lambiris, J. K. Damas, E. Latz, T. E. Mollnes and T. Espevik (2014). "Cholesterol crystals induce complement-dependent inflammasome activation and cytokine release." *J Immunol* 192(6): 2837-2845.

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Ostvik, A. E., A. Granlund, B. I. Gustafsson, S. H. Torp, T. Espevik, T. E. Mollnes, J. K. Damas and A. K. Sandvik (2014). "Mucosal toll-like receptor 3-dependent synthesis of complement factor B and systemic complement activation in inflammatory bowel disease." *Inflamm Bowel Dis* 20(6): 995-1003.

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Kaspersen, S. J., J. Han, K. G. Norsett, L. Rydsaa, E. Kjobli, S. Bugge, G. Bjorkoy, E. Sundby and B. H. Hoff (2014). "Identification of new 4-N-substituted 6-aryl-7H-pyrrolo[2,3-d]pyrimidine-4-amines as highly potent EGFR-TK inhibitors with Src-family activity." *Eur J Pharm Sci* 59: 69-82.

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Franklin, B. S., L. Bossaller, D. De Nardo, J. M. Ratter, A. Stutz, G. Engels, C. Brenker, M. Nordhoff, S. R. Mirandola, A. Al-Amoudi, M. S. Mangan, S. Zimmer, B. G. Monks, M. Fricke, R. E. Schmidt, T. Espevik, B. Jones, A. G. Jarnicki, P. M. Hansbro, P. Bustos, A. Marshak-Rothstein, S. Hornemann, A. Aguzzi, W. Kastenmuller and E. Latz (2014). "The adaptor ASC has extracellular and 'prionoid' activities that propagate inflammation." *Nat Immunol* 15(8): 727-737.

D'Souza, A., A. Bucchi, A. B. Johnsen, S. J. Logantha, O. Monfredi, J. Yanni, S. Prehar, G. Hart, E. Cartwright, U. Wisloff, H. Dobrynski, D. DiFrancesco, G. M. Morris and M. R. Boyett (2014). "Exercise training reduces resting heart rate via downregulation of the funny channel HCN4." *Nat Commun* 5: 3775.

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Vettukattil, R., M. Gulati, T. E. Sjøbakk, A. S. Jakola, N. A. M. Kvernmo, S. H. Torp, T. F. Bathen, S. Gulati and I. S. Gribbestad (2013). "Differentiating Diffuse World Health Organization Grade II and IV Astrocytomas With Ex Vivo Magnetic Resonance Spectroscopy." *Neurosurgery* 72(2): 186-195  
110.1227/NEU.1220b1013e31827b31829c31857.

Vettukattil, R., M. Gulati, T. E. Sjobakk, A. S. Jakola, N. A. Kvernmo, S. H. Torp, T. F. Bathen, S. Gulati and I. S. Gribbestad (2013). "Differentiating diffuse World Health Organization grade II and IV astrocytomas with ex vivo magnetic resonance spectroscopy." *Neurosurgery* 72(2): 186-195; discussion 195.

Slordahl, T. S., T. Denayer, S. H. Moen, T. Standal, M. Borset, C. Ververken and T. B. Ro (2013). "Anti-c-MET Nanobody - a new potential drug in multiple myeloma treatment." *Eur J Haematol* 91(5): 399-410.

Sjobakk, T. E., R. Vettukattil, M. Gulati, S. Gulati, S. Lundgren, I. S. Gribbestad, S. H. Torp and T. F. Bathen (2013). "Metabolic profiles of brain metastases." *Int J Mol Sci* 14(1): 2104-2118.

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Sandanger, O., T. Ranheim, L. E. Vinge, M. Bliksoen, K. Alfsnes, A. V. Finsen, C. P. Dahl, E. T. Askevold, G. Florholmen, G. Christensen, K. A. Fitzgerald, E. Lien, G. Valen, T. Espevik, P. Aukrust and A. Yndestad (2013). "The NLRP3 inflammasome is up-regulated in cardiac fibroblasts and mediates myocardial ischaemia-reperfusion injury." *Cardiovasc Res* 99(1): 164-174.

Samstad, E., N. Niyonzima, S. Nymo, M. Aune, L. Ryan, O. L. Brekke, I. Sandanger, P. Aukrust, J. K. Damas, E. Latz, J. Lambris, T. E. Mollnes and T. Espevik (2013). "Cholesterol crystals induce inflammasome activation and cytolcine release in a complement-dependent manner." *Molecular Immunology* 56(3): 260-260.

Rokstad, A. M., O. L. Brekke, B. Steinkjer, L. Ryan, G. Kollarikova, B. L. Strand, G. Skjak-Braek, J. D. Lambris, I. Lacik, T. E. Mollnes and T. Espevik (2013). "The

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