

Calanus® Oil publications and patents

Updated as per May 2017

Published papers

Eilertsen, K.-E., Mæhre, H., Jensen, I.J., Devold, H. Olsen, J.O. Lie, R.K., Brox, J. Berg, V. Elvevoll, E.O. & Østerud, B. (2012). A Wax Ester and Astaxanthin-Rich Extract from the Marine Copepod *Calanus finmarchicus* Attenuates Atherogenesis in Female Apolipoprotein E-Deficient Mice *Journal of Nutrition* 142: 508-512

Vang, B., Mæhre, H.K., Jensen, I.J. & Olsen, R.L. (2013). Detection of tropomyosin and determination of proteins in crustacean oils *Food Chemistry* 141: 72-76

Vang, B., Pedersen, A.M. & Olsen, R.L. (2013). Oil extracted from the copepod *Calanus finmarchicus* using proteolytic enzymes. *Journal of Aquatic Food Product Technology*, 22 (6): 619-628

Höper, A.C. Salma, W., Khalid, A.M., Hafstad, A.D., Sollie, S., Raa, J., Larsen, T.S. & Aasum, E. (2013). Oil from the marine zooplankton *Calanus finmarchicus* improves the cardiometabolic phenotype of diet-induced obese mice. *British Journal of Nutrition*, 110 (12): 2186-2193

Pedersen, A.M., Vang, B. & Olsen, R.L. (2014). Oil from *Calanus finmarchicus*. Composition and Possible Use: A Review. *Journal of Aquatic Food Product Technology*, 23 (6): 633-644

Höper, A.C., Salma, W., Sollie, S.J., Hafstad, A.D., Lund, J., Khalid, J., Raa, J., Aasum, E. & Larsen, T.S. (2014). Wax Esters from the Marine Copepod *Calanus finmarchicus* Reduce Diet-Induced Obesity and Obesity-Related Metabolic Disorders in Mice. *Journal of Nutrition*, 144 (2): 164-169

Pedersen, A. M., Salma W., Höper A. C., Larsen T. S. & Olsen R. L. (2014). Lipid profile of mice fed a high-fat diet supplemented with a wax ester-rich marine oil. *European Journal of Lipid Science and Technology*, 116: 1718-1726

Cook, C.M., Larsen, T.S., Kern, H.C.J., Derrig, L.D., Kelly, K.M. & Tande, K.S. (2016). Absorption of Essential Fatty Acids in Wax Ester Rich Oil from the Marine Crustacean, *Calanus finmarchicus*, in Healthy Men and Women. *Experimental Biology*, 684: D267

Tande, K.S., Trung, D.Vo. & Lynch, B.S. (2016). Clinical safety evaluation of marine oil derived from *Calanus finmarchicus*. *Regulatory Toxicology and Pharmacology*, 80: 25-31 (doi 10.1016/j.yrtph.2016.05.030)

Salma,W., Franekova, V., Lind, T., Höper, A.C., Ludvigsen, S., Lund, J., Aasum, E., Ytrehus, K., Belke, D.D. & Larsen, T.L. (2016). Dietary Calanus oil antagonizes angiotensin II-induced hypertension and tissue wasting in obese mice. *Prostaglandins, Leukotrienes and Essential Fatty Acids* 108 (2016) 13-21.

Cook, C.M., Larsen, T., Derrig, L.D., Kelly, K.M. & Tande, K. S. (2016). Wax-ester rich oil from the marine crustacean *Calanus finmarchicus* is a bioavailable source of EPA and DHA for human consumption. Accepted in *Lipids*.

Report

Jorde, R., Larsen, T.S. & Nilssen, E.M. Safety and efficacy of oil from *Calanus finmarchicus* on intra-abdominal fat, glucose tolerance and blood lipids in human. University Hospital of North Norway, June 2013, unpublished Report, 39 pages

Patent applications in progress

Raa, J., G. Rørstad & K.S. Tande. 2009. Biological oil composition, formulations comprising the oil composition, and use thereof to prevent or treat cardiovascular disease. *In review.*

Raa, J., G. Rørstad & K. S. Tande. 2009. Oil composition, formulations comprising the oil composition, and the use thereof to reduce accumulation of visceral fat, improve glucose tolerance, and prevent or treat obesity related diseases and disorders. *In review.*