

Curriculum Vitae

Personal information Anna Mari Lone

Work experience

1. Employer: University of Oslo/Oslo University Hospital
 - Start date: 012013
 - End date: 122020
 - Position: Postdoctoral fellow
 - Activities: Research on Cancer Immunology
 - Country: Norway

Education and training

1. Subject: Harvard University
 - Start date: 092007
 - End date: 122012
 - Qualification: Ph.D.
 - Organisation: Chemical Biology.
 - Country: United States
2. Subject: Amherst College
 - Start date: 092003
 - End date: 052007
 - Qualification: B.A.
 - Organisation: Chemistry.
 - Country: United States
3. Subject: Göttingen University
 - Start date: 092005
 - End date: 062006
 - Qualification: NA _ exchange year
 - Organisation: Chemistry.
 - Country: Germany

Additional information

Publications

1) Gregersen, I., Kong, X.Y., Kooijman, S., Foy, H., Grannes, H., Olsen, M.B., Lone, A.M., Yang, K., Quiles-Jimenes, A., Tran, M., Øgaard, J., Segers, F.M., Rashidi, A., Lund Sagen, E., Lauritzen, K.H., Pronk, A.C.M., de Boer, J.F., Holven, K.B., Melum, E., Aukrust, P., Taskén, K., Holm, S., Rensen, P.C.N., Dahl, T.B., Halvorsen, B. T cells with increased responsiveness cause obesity in mice without diet intervention. *iScience*. 2024 Mar 11; 27(4):109471. 2) Lone A.M., Giansanti P., Jørgensen M.J., Gjerga E., Dugourd A., Scholten A., Saez_Rodriguez J., Heck A.J.R., Taskén K. Systems approach reveals distinct and shared signaling networks of the four PGE2 receptors in T cells. *Sci Signal*. 2021 Oct 5;14(703):eabc8579 3) Lone A.M., Taskén K., Phosphoproteomics based characterization of Prostaglandin E2 Signaling in T cells. *Mol Pharmacol*, 2021 Mar 4; 99(5):370_382. 4) Lone A.M., Leidl, M., McFedries, A.K., Horner, J.W., Creemers, J, Saghatelian, A., Deletion of Prepl Causes Growth Impairment and Hypotonia in Mice; *PLoS ONE* 2014 Feb.; 9(2): e89160 5) Kim Y.G., Lone A.M., Saghatelian A., Analysis of the proteolysis of bioactive peptides using a peptidomics approach; *Nat. Protoc.* 2013 Sep.; 8(9): 1730_1742 6) Mitchell, A.J., Lone A.M., Tinoco A.D., Saghatelian A., Proteolysis controls endogenous substance P levels; *PLoS ONE* 2013 Jul.; 8(7): e68638 7) Lone A.M., Taskén K., Proinflammatory and immunoregulatory roles of eicosanoids in T cells; *Front. Immunol.* 2013; 4:130, 8) Lone A.M., Kim Y.G., Saghatelian A., Peptidomics methods for the identification of peptidase_substrate interactions; *Curr. Opin. Chem. Biol.* 2013 Feb; 17(1): 83_9 9) Kim Y.G.*, Lone A.M.*, Nolte W.M.*, Saghatelian A.; Peptidomics approach to elucidate the proteolytic regulation of bioactive peptides; *Proc. Natl. Acad. Sci. USA.* 2012 May; 109(22):8523_7 * these authors contributed equally 10) Lone A.M. et al.; A Substrate-Free Activity-Based Protein Profiling Screen for the Discovery of Selective PREPL Inhibitors; *J. Am. Chem. Soc.* 2011 Aug.; 133(30):11665_11674 11) Lone A.M., Nolte W.M., Tinoco A.D., Saghatelian A.; Peptidomics of the Prolyl Peptidases; *AAPS Journal*. 2010 Dec; 12(4): 483_91 12) Bishop A.C., Zhang X.Y., Lone A.M.; Generation of inhibitor_sensitive protein tyrosine phosphatases via active_site mutations; *Methods*. 2007 Jul; 42(3): 278_88 13) Zhang X.Y., Chen V.L., Rosen M.S., Blair E.R., Lone A.M., Bishop A.C.; Allele_specific inhibition of divergent protein tyrosine phosphatases with a single small molecule; *Bioorg. Med. Chem.* 2008 Sep; 16(17): 8090_7

Projects

Postdoctoral Research at the University of Oslo and Oslo University Hospital (partly funded through grants from the Norwegian Cancer Society and the South_Eastern Norway Regional Health Authority to supervisor) _ Led a systems biology study characterizing signaling networks elicited by the inflammatory mediator prostaglandin E2 in T cells _ Screened and developed novel small molecules to enhance T cell function _ Animal studies to restore anti_tumor immunity using peptidomimetics and transgenic mice Ph.D. Research at Harvard University (partly funded through NIH grant to supervisor): _ Identified, through screening, the first inhibitors of the disease_related peptidase PREPL _ Generated a conditional knockout mouse and characterized pathways and physiology regulated by PREPL in vivo _ Developed a novel peptidomics strategy to discover proteolytic pathways regulating bioactive peptides Honors Thesis Student, Amherst College _ Inhibitor sensitization studies of phosphatases HePTP and FAP_1

Memberships

MEMBERSHIPS Norwegian Society for Immunology Member (2013 _ 2020) American Chemical Society Member (2008 _ present) Sigma Xi Associate Member (2007 _ present)

Other Relevant Information

AWARDS AND HONORS Travel stipend to Experimental Biology 2019, Norsk Hydros Fond for Kreftrforskning (2019) Forris Jewitt Moore Fellowship for graduate study in Chemical Biology, Amherst College (2011, 2008, 2007) Training

Program in Molecular, Cellular, and Chemical Biology, GM007598 (NIH), (Sept. 2007 – Aug. 2010) The Jackson Laboratories Colony Management Workshop Purina Scholarship (April 2009) American Chemical Society Connecticut Valley Section Prize, Amherst College (May 2007) David R. Belevetz '54 Memorial Prize in Chemistry, Amherst College (May 2006) CRC Press Freshman Chemistry Achievement Award, Amherst College (May 2004)