

Alleenoksiidi süntaas-lipoksügenaas liitvalgu rada on üldlevinud korallides

Lõhelaid, Helike; Järving, Reet; Järving, Ivar; Samel, Nigulas XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 84-85

Allene oxide synthase-lipoxygenase pathway in coral stress response = Alleenoksiidi süntaas-lipoksügenaasi rada korallide stressivastuses

Lõhelaid, Helike 2015 <https://digi.lib.ttu.ee/ii/?1870> https://www.ester.ee/record=b4446782*est

Arachidonic acid metabolism in marine invertebrates

Lõhelaid, Helike; Teder, Tarvi; Samel, Nigulas Invertebrate survival journal - ISJ 2018 / p. 110
<http://www.isj.unimo.it/index.php/ISJ/article/view/82>

A catalase-related hemoprotein in coral is specialized for synthesis of short-chain aldehydes : discovery of P450-type hydroperoxide lyase activity in a catalase

Teder, Tarvi; Lõhelaid, Helike; Boeglin, William E.; Calcutt, Wade M.; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 2015 / p. 19823-19832 : ill <http://dx.doi.org/10.1074/jbc.M115.660282>

Chimeric allene oxide synthase- lipoxygenase fusion proteins

Lõhelaid, Helike; Samel, Nigulas 14th International PhD Symposium: "Overcoming Chaos- Networks in Life Sciences" 24-28.10.2012, Heidelberg, Germany 2012

Chimeric allene oxide synthase-lipoxygenase fusion proteins

Lõhelaid, Helike; Järving, Reet; Järving, Ivar; Samel, Nigulas FEBS Journal 2010 / S1, p. 251

Cross-talk between bioactive lipid mediators and the unfolded protein response in ischemic stroke

Teder, Tarvi; Haeggström, Jesper Z.; Airavaara, Mikko; Lõhelaid, Helike Prostaglandins & other lipid mediators 2023 / art. 106760
<https://doi.org/10.1016/j.prostaglandins.2023.106760>

Differences in the substrate binding between highly identical catalase-related fatty acid hydroperoxide-metabolizing enzymes [Online resource]

Teder, Tarvi; Lõhelaid, Helike; Samel, Nigulas XVth International Conference of the Lithuanian Biochemical Society : the programme and abstract book : Dubingiai, June 26-29, 2018 2018 / p. 67-68 <https://www.docdroid.net/tVouRrC/abstract-book.pdf>

Direct evidence of the cyclooxygenase pathway of prostaglandin synthesis in arthropods : genetic and biochemical characterization of two crustacean cyclooxygenases

Varvas, Külliki; Kurg, Reet; Hansen, Kristella; Järving, Reet; Järving, Ivar; Valmsen, Karin; Lõhelaid, Helike; Samel, Nigulas Insect biochemistry and molecular biology 2009 / 12, p. 851-860 <https://www.sciencedirect.com/science/article/pii/S0965174809001490>

Distinct characteristics of the substrate binding between highly homologous catalase-related allene oxide synthase and hydroperoxide lyase

Teder, Tarvi; Samel, Nigulas; Lõhelaid, Helike Archives of biochemistry and biophysics 2019 / art. 108126, 10 p. : ill
<https://doi.org/10.1016/j.abb.2019.108126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Eicosanoid diversity of stony corals

Lõhelaid, Helike; Samel, Nigulas Marine drugs 2018 / p. 1-14 : ill <https://doi.org/10.3390/md16010010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Generality of marine allene oxide synthesis by the allene oxide synthase-lipoxygenase fusion protein pathway

Lõhelaid, Helike; Järving, Reet; Samel, Nigulas FEBS journal 2008 / Suppl. 1, p. 413

Identification of a functional allene oxide synthase-lipoxygenase fusion protein in the soft coral *Gersemia fruticosa* suggests the generality of this pathway in octocorals

Lõhelaid, Helike; Järving, Reet; Valmsen, Karin; Varvas, Külliki; Kreen, Malle; Järving, Ivar; Samel, Nigulas Biochimica et biophysica acta 2008 / 2, p. 315-321

Lipoxygenase-allene oxide synthase pathway in octocoral thermal stress response

Lõhelaid, Helike; Teder, Tarvi; Samel, Nigulas Coral reefs 2015 / p. 143-154 : ill

Maristem - stem cells of marine/aquatic invertebrates : from basic research to innovative applications

Ballarin, Lorian; Rinkevich, Baruch; Bartscherer, Kestin; Bartscherer, Kestin; Cambier, Sebastien; Cammarata, Matteo; Domart-Coulon, Isabelle; Drobne, Damjana; Encinas, Juanma; Frank, Uri; Geneviere, Anne-Marie; Hobmayer, Bert; **Lõhelaid, Helike**; Lyons, Daniel; Martinez, Pedro; Oliveri, Paola; Peric, Lorena; Piraino, Stefano; Ramšak, Andreja; Rakers, Sebastian; Rentzsch, Fabian; Rosner, Amalia; Silva, Tiago Henriques da; Somorjai, Ildiko; Suleiman, Sherif; Coelho, Ana Varela Sustainability (Switzerland) 2018 / Art. 526 <https://doi.org/10.3390/su10020526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxylipins : role in stem cell biology

Lõhelaid, Helike; Teder, Tarvi Advances in Aquatic Invertebrate Stem Cell Research : From Basic Research to Innovative Applications 2022 / p. 173-200 <https://doi.org/10.3390/books978-3-0365-1635-6-4>

Structural and catalytic aspects of the catalase-related fatty acid hydroperoxide lyase = Katalaasilaadse hüdroperoksiidlüaasi struktuursed ja katalüütilised omadused

Teder, Tarvi 2019 <https://digikogu.taltech.ee/et/Item/8a4b253d-68e4-41e5-bcc4-273e9f2fa3d2>

Structural and functional insights into the reaction specificity of catalase-related hydroperoxide lyase : a shift from lyase activity to allene oxide synthase by site-directed mutagenesis

Teder, Tarvi; Lõhelaid, Helike; Samel, Nigulas PLoS ONE 2017 / art. e0185291, p. 1-18 : ill
<https://doi.org/10.1371/journal.pone.0185291>

Structural and functional studies of lipoxygenase-hydroperoxide lyase fusion protein in the soft coral *Capnella imbricata*

Teder, Tarvi; Lõhelaid, Helike; Samel, Nigulas 57th ICBL : 4-8 September 2016, Chamonix, Mont Blanc, France 2016 / p. 134

UPR responsive genes Manf and Xbp1 in stroke

Lõhelaid, Helike; Anttila, Jenni E.; Liew, Hock-Kean; Tseng, Kuan-Yin; Teppo, Jaakko; Stratoulas, Vassilis; Airavaara, Mikko Frontiers in cellular neuroscience 2022 / art. 900725 <https://doi.org/10.3389/fncel.2022.900725>

Up-regulated expression of AOS-LOXa and increased eicosanoid synthesis in response to coral wounding

Lõhelaid, Helike; Teder, Tarvi; Tõldsepp, Kadri; Ekins, Merrick; Samel, Nigulas PLoS ONE 2014 / p. 1-9 : ill

Uus 8-lipoksügenaas korallist *Gersemia fruticosa*

Lõhelaid, Helike; Mortimer, Monika; Järving, Reet; Varvas, Külliki; Samel, Nigulas; Järving, Ivar XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 81-82