

Activation of 11R-lipoxygenase is fully Ca²⁺-dependent and controlled by the phospholipid composition of the target membrane

Järving, Reet; Lõokene, Aivar; Kurg, Reet; Siimon, Liina; Järving, Ivar; Samel, Nigulas Biochemistry 2012 / p. 3310-3320 : ill <https://pubs.acs.org/doi/10.1021/bi201690z>

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>

Biokeemilistest alusuuringutest litsentsimüügini : litsentsileping tehnoloogilise teabe siirdeks TTÜ ja USA biotehnoloogiafirma vahel allakirjutamisel

Samel, Nigulas Äripäev 2003 / 23. detsembr., Kliendileht Tehnoloogia, lk. 2 : fot., portr

Bioorgaaniline keemia Tallinna Tehnikaülikooli keemiainstituudis

Samel, Nigulas Teadusmõte Eestis : täppisteadused : [artiklikogumik] 2006 / lk. 193-197 : ill https://www.ester.ee/record=b2230239*est

Biosynthesis of prostaglandins in invertebrates : National Prize 2002

Samel, Nigulas Annual review : 2001 / Institute of Chemistry at Tallinn Technical University 2002 / p. [7-8]

Blood plasma influences anti-aggregatory potency of prostaglandins : effect of albumin

Kobzar, Gennadi; Mardla, Vilja; Järving, Ivar; Samel, Nigulas Inflammopharmacology 1999 / 2, p. 179-185

Calorimetric approach for comparison of Angiopoietin-like protein 4 with other pancreatic lipase inhibitors

Villo, Ly; Risti, Robert; Reimund, Mart; Kukk, Kaia; Samel, Nigulas; Lõokene, Aivar Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids 2020 / art. 158553, 12 p. : ill <https://doi.org/10.1016/j.bbalip.2019.158553> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Calorimetry as a tool for mechanistic studies of lipolytic enzymes under in vivo like conditions = Kalorimeetria rakendamise lipolüütiliste ensüümide mehhanismide uurimiseks

Risti, Robert 2023 <https://doi.org/10.23658/taltech.19/2023> <https://digikogu.taltech.ee/et/Item/40f4a8ba-7a1a-4612-a455-00b1cc0d62d7> https://www.ester.ee/record=b5560479*est

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 <https://doi.org/10.1074/jbc.M115.660282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of two cyclooxygenase genes in the coral *Gersemia fruticosa*

Järving, Reet; Järving, Ivar; Kurg, Reet; Varvas, Külli; Valmsen, Karin; Brash, Alan R.; Samel, Nigulas 2nd Joint Symposium on "Plant Oxylipins" : June 12-14, 2003, Göttingen, Germany (invited lecture) 2003 / ? p

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

Cloning, expression and characterization of cyclooxygenase gene from amphipods

Hansen, K.; Kurg, Reet; Varvas, Külli; Valmsen, Karin; Järving, Ivar; Järving, Reet; Samel, Nigulas FEBS journal 2008 / Suppl. 1, p. 403

Comparison of antiaggregatory effects of PGI₂, PGI₃ and iloprost on human and rabbit platelets

Kobzar, Gennadi; Mardla, Vilja; Järving, Ivar; Samel, Nigulas Cellular physiology and biochemistry 2001 / 5, p. 279-284 <https://pubmed.ncbi.nlm.nih.gov/11684817/>

Comparison of platelet aggregation in venous and arterial blood

Kobzar, Gennadi; Mardla, Vilja; Rätsep, Indrek; Samel, Nigulas Journal of thrombosis and haemostasis 2003 / Supplement 1, abstracts from XIX International ISTH Congress : July 12-18, 2003, p. CD077

A conserved π -cation and an electrostatic bridge are essential for 11R-lipoxygenase catalysis and structural stability

Eek, Priit; Piht, Mari-Ann; Rätsep, Margus; Freiberg, Arvi; Järving, Ivar; Samel, Nigulas Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids 2015 / p. 1377-1382 : ill <https://doi.org/10.1016/j.bbalip.2015.07.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Control of prostaglandin stereochemistry at the 15-carbon by cyclooxygenases-1 and -2. A critical role for serine 530 and valine 349

Schneider, Claus; Boeglin, William E.; Prusakiewicz, J.J.; Rowlinson, S.W.; Marnett, L.J.; **Samel, Nigulas**; Brash, Alan R. Journal biological chemistry 2002 / p. 478-485

Coral dioxygenases : comparison and contrast with other dioxygenases

Samel, Nigulas; **Varvas, Külliki; Koljak, Reet**; Valmsen, Karin; **Järving, Ivar** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 138

COX inhibiitorite nimesuliidi, paratsetamooli ja metamisooli toime aspiriiniresistentsete koronaarhaigete trombotsüütidele enne ja pärast aortokoronaarset šunteerimist

Mardla, Vilja; Rätsep, Indrek; Kobzar, Gennadi; Samel, Nigulas Eesti Arst 2010 / 7/8, lk. 470-476 : ill <https://eestiartst.ee/cox-inhibiitorite-nimesuliidi-paratsetamooli-ja-metamisooli-toime-aspiriiniresistentsete-koronaarhaigete-trombotsuutidele-enne-ja-parast-aortokoronaarset-sunteerimist/> https://artiklid.elnet.ee/record=b2155144*est

A critical role of non-active site residues on cyclooxygenase helices 5 and 6 in the control of prostaglandin stereochemistry at carbon 15

Valmsen, Karin; Boeglin, William E.; **Järving, Reet; Järving, Ivar; Varvas, Külliki**; Brash, Alan R.; **Samel, Nigulas** The journal of biological chemistry 2007 / 38, p. 28157-28163 <https://www.sciencedirect.com/science/article/pii/S0021925820587127>

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>

Dioksügenaasid korallis Gersemia fruticosa : hapniku allikas, selektiivsete inhibiitorite toime

Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Müürisepp, Aleksander-Mati; **Liiv, Milana**; Samel, Nigulas XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 152

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](#)

Effect of selective inhibitors on arachidonic acid metabolism in the soft coral Gersemia fruticosa

Varvas, Külliki; Järving, Ivar; Valmsen, Karin; **Koljak, Reet**; Samel, Nigulas Prostaglandins leukotrienes and essential fatty acids 1996 / p. 82

Effect of vitamin B6 vitamers on platelet aggregation

Kobzar, Gennadi; Mardla, Vilja; Rätsep, Indrek; Samel, Nigulas Platelets 2009 / 2, p. 120-124 : ill

Effects of [alpha]-tocopherol, L-arginine, and quercetin on aggregation of human platelets

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Nutrition research 2005 / p. 569-575 : ill <https://www.sciencedirect.com/science/article/pii/S0271531705001053>

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](#)

Endoperoxide pathway in prostaglandin biosynthesis in the soft coral Gersemia fruticosa

Varvas, Külliki; Koljak, Reet; Järving, Ivar; Pehk, Tõnis; Samel, Nigulas Tetrahedron letters 1994 / 44, p. 8267-8270

Enhanced expression of human prostaglandin H synthase-2 in the yeast *Pichia pastoris* and removal of the C-terminal tag with bovine carboxypeptidase A

Kukk, Kaia; Samel, Nigulas Journal of biotechnology 2016 / p. 224-231 : ill <https://doi.org/10.1016/j.jbiotec.2016.06.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enzymatic oxidation of arachidonic acid in the coral *Gersemia fruticosa*

Varvas, Külliki 1999 http://www.ester.ee/record=b1273068*est

Evidence of a cyclooxygenase-related prostaglandin synthesis in coral

Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 1999 / 15, p. 9923-9929

Expression of human prostaglandin H synthases in the yeast *Pichia pastoris* = Inimese prostaglandiin H süntaaside ekspresseerimine pärmis *Pichia pastoris*

Kukk, Kaia 2016 http://www.ester.ee/record=b4621165*est

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

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

Glucose activates NOX signaling pathway in platelets

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Primary care diabetes 2016 / p. e5 <http://dx.doi.org/10.1016/j.pcd.2016.08.017>

Glucose impairs aspirin inhibition in platelets through a NAD(P)H oxidase signaling pathway

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Prostaglandins & other lipid mediators 2017 / p. 33-40 : ill

<https://doi.org/10.1016/j.prostaglandins.2017.07.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Glucose prevents inhibition of platelets caused by NOS activation

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas 1st EUPLAN Platelet Conference : Maastricht The Netherlands, September 19-21th 2012 2012 / p. 108

Glükoosi pidurdav toime trombotsüütide agregatsiooni inhibeerimisele COX-i inhibiitorite ja L-arginiiniga in vitro

Mardla, Vilja; Rooks, Ebe; Kobzar, Gennadi; Samel, Nigulas Eesti Arst 2014 / lk. 263-267 : ill

https://artiklid.elnet.ee/record=b2671441*est

Gly188Arg substitution eliminates substrate inhibition in arachidonate 11R-lipoxygenase

Põldemaa, Kaspar; Lipp, Maarja; Järving, Ivar; Samel, Nigulas; Eek, Priit Biochemical and biophysical research

communications 2019 / p. 81-85 : ill <https://doi.org/10.1016/j.bbrc.2019.08.132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification and characterization of a naturally occurring 11R-lipoxygenase

Järving, Reet; Mortimer, Monika; Brash, Alan R.; Samel, Nigulas; Järving, Ivar Prostaglandins & other lipid mediators 2006 / 1/2, p. 184 https://www.researchgate.net/publication/278279948_Identification_and_characterization_of_a_naturally_occurring_11R-lipoxygenase

Identification and characterization of a naturally occurring 11R-lipoxygenase

Järving, Reet; Mortimer, Monika; Brash, Alan R.; Samel, Nigulas; Järving, Ivar 9th International Conference "Eicosanoids & Other Bioactive Lipids in Cancer, Inflammation & Related Diseases 2005 / p. 11-14

Identification and characterization of an arachidonate 11R-lipoxygenase

Mortimer, Monika; Järving, Reet; Brash, Alan R.; Samel, Nigulas; Järving, Ivar Archives of biochemistry and biophysics 2006 / 1, p. 147-155 : ill <https://www.sciencedirect.com/science/article/pii/S0003986105004455>

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

Löhelaid, Helike; Järving, Reet; Valmsen, Karin; Varvas, Külliki; Kreen, Malle; Järving, Ivar; Samel, Nigulas Biochimica et biophysica acta 2008 / 2, p. 315-321 <https://www.sciencedirect.com/science/article/abs/pii/S030441650700253X>

Identification of a naturally occurring peroxidase-lipoxygenase fusion protein

Koljak, Reet; Boutaud, Olivier; Shieh, Bih-Hwa; Samel, Nigulas; Brash, Alan R. Science 1997 / p. 1994-1996: ill

Imetaja ja koralli tsüklooksügenaasi struktuurierinevused

Valmsen, Karin; Koljak, Reet; Järving, Ivar; Varvas, Külliki; Samel, Nigulas XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 188

Increase in antiplatelet effects of prostaglandins by α -tocopherol and quercetin

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Proceedings of the Estonian Academy of Sciences. Biology. Ecology 2005 / 2, p.

Interaction of glucose with inhibitors of cyclooxygenase in platelets

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Platelets 2010 / 5, p. 407

Investigation of 11R-lipoxygenase quaternary structure

Eek, Priit; Põldemaa, Kaspar; Kasvandik, Sergo; Järving, Ivar; Samel, Nigulas Book of abstracts : 6th European Workshop on Lipid Mediators (6EWLM), Goethe University in Frankfurt am Main, Germany, September 27-30, 2016 2016 / p. 112 http://workshop-lipid.eu/pictures/Abstract%20book-6EWLM_160926.pdf

Isolation and characterization of the cDNA for prostaglandin endoperoxide synthase from the white sea soft coral

Gersemia fruticosa

Koljak, Reet; Varvas, Külliki; Järving, Ivar; Samel, Nigulas 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 29

Kaks tsüklooksügenaasi kodeerivat geeni korallist Gersemia fruticosa

Järving, Reet; Järving, Ivar; Samel, Nigulas XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 35

Korallide dioksügenaasid : võrdlus teiste dioksügenaasidega

Samel, Nigulas; **Varvas, Külliki; Koljak, Reet; Valmsen, Karin; Järving, Ivar** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 127

Lactate is a possible mediator of the glucose effect on platelet inhibition

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Platelets 2014 / p. 239-245 : ill <https://doi.org/10.3109/09537104.2013.816670>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lipase-catalysed acylation of prostanoids

Parve, Omar; **Järving, Ivar; Martin, Ivar; Metsala, Andrus; Vallikivi, Imre; Aidnik, Madis; Pehk, Tõnis**; Samel, Nigulas Bioorganic & medicinal chemistry letters 1999 / p. 1853-1858: ill

Lipase-catalysed derivatisation of prostanoids

Parve, Omar; **Vallikivi, Imre**; Martin, Ivar; Järving, Ivar; Samel, Nigulas 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P179

11R-lipoksügenaasi kristallstruktuuri mudel

Eek, Priit; Järving, Reet; Järving, Ivar; Newcomer, Marcia E.; **Samel, Nigulas** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 18

Lipoxygenase-allene oxide synthase pathway in octocoral thermal stress response

Lõhelaid, Helike; Teder, Tarvi; Samel, Nigulas Coral reefs 2015 / p. 143-154 : ill <https://doi.org/10.1007/s00338-014-1238-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modulatory effect of 8-iso-PGE2 on platelets

Kobzar, Gennadi; **Mardla, Vilja; Järving, Ivar**; Samel, Nigulas; Lõhmus, Madis General pharmacology 1997 / 2, p. 317-321

4. osa. Süsivesikud ja lipiidid

Biokeemia : lühikursus : õpik kõrgkoolidele 2016 / lk. 129-164 : ill

New cytotoxic sterols from the soft coral Gersemia fruticosa

Koljak, Reet; Lopp, Annika; **Pehk, Tõnis; Varvas, Külliki**; Müürisepp, Aleksander-Mati; **Järving, Ivar**; Samel, Nigulas Tetrahedron 1998 / p. 179-186

N-glycosylation site occupancy in human prostaglandin H synthases expressed in Pichia pastoris

Kukk, Kaia; Kasvandik, Sergo; **Samel, Nigulas** SpringerPlus 2014 / p. 1-9 : ill <https://doi.org/10.1186/2193-1801-3-436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

N-glycosylation site occupancy in prostaglandin H synthases expressed in Pichia pastoris

Kukk, Kaia; Kasvandik, Sergo; **Samel, Nigulas** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

NMR monitoring of lipase-catalyzed reactions of prostaglandins : preliminary estimation of reaction velocities

Vallikivi, Imre; Järving, Ivar; Pehk, Tõnis; Samel, Nigulas; Tõugu, Vello; **Parve, Omar** Journal of molecular catalysis B : enzymatic 2004 / p. 15-19 : ill

Novel fatty acid dioxygenases from the corals *Plexaura homomalla* and *Gersemia fruticosa*

Koljak, Reet 2001 https://www.ester.ee/record=b1551345*est

Novel membrane-associated prostaglandin E synthase-2 from crustacean arthropods

Hansen, Kristella; Varvas, Külliki; Järving, Ivar; Samel, Nigulas Comparative biochemistry and physiology. Part B, Biochemistry and molecular biology 2014 / p. 45-52 : ill <https://doi.org/10.1016/j.cbpb.2014.05.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oksüdatsiooni stereospetsiifilisus arahhidoonhappe C-15 juures tsüklooksügenaasi katalüüsis

Valmsen, Karin; Järving, Reet; Järving, Ivar; Samel, Nigulas XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 156

On the evolutionary origin of cyclooxygenase (COX) isozymes

Järving, Reet; Järving, Ivar; Kurg, Reet; Brash, Alan R.; Samel, Nigulas The journal of biological chemistry 2004 / 14, Issue of April 2, p. 13624-13633 : ill

Organic and bioorganic chemistry

Samel, Nigulas Research in Estonia : present and future 2011 / p. 329-332

Oxidative metabolism of arachidonic acid in coral: definition of different cyclooxygenase and lipoxygenase pathways

Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Samel, Nigulas 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 79

A PDZ-like domain mediates the dimerization of 11R-lipoxygenase

Eek, Priit; Põldemaa, Kaspar; Kasvandik, Sergio; Järving, Ivar; Samel, Nigulas Biochimica et Biophysica Acta (BBA) - molecular and cell biology of lipids 2017 / p. 1121-1128 : ill <https://doi.org/10.1016/j.bbalip.2017.07.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

PGG2 as a key intermediate in prostaglandin biosynthesis in the coral *Gersemia fruticosa*

Samel, Nigulas; Varvas, Külliki; Koljak, Reet; Pehk, Tõnis; Järving, Ivar 9th International Conference on Prostaglandins and Related Compounds, Florence, Italy, 1994 : abstract book 1994 / p. 135

Photosensitized inactivation of tumor cells by porphyrins and chlorins

Tšekulaeva, Ludmilla 2006 <https://digi.lib.ttu.ee/i/296> https://www.ester.ee/record=b2146047*est

Platelet activity before and after coronary artery bypass grafting

Kobzar, Gennadi; Mardla, Vilja; Rätsep, Indrek; Samel, Nigulas Platelets 2006 / 5, p. 289-291
<https://pubmed.ncbi.nlm.nih.gov/16928599/>

Polüeenhapete gamma- ja delta-kaksiksidemete selektiivne taandamine = Selective reduction of gamma- and delta-double bonds in polyunsaturated fatty acids

Järving, Ivar; Valmsen, Karin; Lille, Ülo; Lopp, Margus; Pehk, Tõnis; Samel, Nigulas XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 61-62
https://www.ester.ee/record=b1070511*est

Potentiation of antiaggregating effect of prostaglandins by [alfa]-tocopherol and quercetin

Mardla, Vilja; Kobzar, Gennadi; Samel, Nigulas Platelets 2004 / 5, p. 319-324 : ill <https://pubmed.ncbi.nlm.nih.gov/15370103/>

Prostaglandiinide biosüntees korallides

Samel, Nigulas; Järving, Ivar; Varvas, Külliki; Koljak, Reet; Pehk, Tõnis Eesti Teaduste Akadeemia aastaaruanne 1994 1995 / lk. 54-55

Prostaglandiinide biosüntees korallides : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööle

Samel, Nigulas Tallinna Tehnikaülikooli aastaraamat 2001 2003 / lk. 184-192 : ill

Prostaglandiinide biosüntees korallides

Samel, Nigulas; Varvas, Külliki; Koljak, Reet; Järving, Ivar; Pehk, Tõnis XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 125-127

Prostaglandiinide biosüntees selgrootutes : Eesti Vabariigi teaduspreemia 2002 : keemia ja molekulaarbioloogia valdkonnas

Aastaülevaade : 2001 / Tallinna Tehnikaülikool, Keemia Instituut 2002 / lk. [7-8]

[P]rostaglandiinide süntees korallis *Plexaura homomalla* : tsüklooksügenaaside stereospetsiifilisuse struktuurilised determinandid

Valmsen, Karin; Samel, Nigulas XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts

Prostaglandin synthesis in marine arthropods and red algae = Prostaglandiinide süntees mere lüljalgsetes ja punavetikates

Hansen, Kristella 2015 https://www.ester.ee/record=b4442497*est

Prostaglandin synthesis in the coral *Plexaura homomalla* : control of prostaglandin stereochemistry at carbon 15 by cyclooxygenases

Valmsen, Karin; Samel, Nigulas 2007 https://www.ester.ee/record=b2315934*est

Prostanoidide lipaas-katalüütiline atsüleerimine

Parve, Omar; Vallikivi, Imre; Martin, Ivar; Järving, Ivar; Samel, Nigulas XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 129-130

Purification and characterization of the recombinant human prostaglandin H synthase-2 expressed in *Pichia pastoris*

Kukk, Kaia; Järving, Reet; Samel, Nigulas FEBS journal 2012 / p. 555

<https://www.sciencedirect.com/science/article/pii/S1046592812000940>

Purification and characterization of the recombinant human prostaglandin H synthase-2 expressed in *Pichia pastoris*

Kukk, Kaia; Järving, Reet; Samel, Nigulas Protein expression and purification 2012 / p. 182-189 : ill

<https://www.sciencedirect.com/science/article/pii/S1046592812000940#aep-keywords-id14>

Rasvhappe dioksügenaasid alamatest organismidest : [ettekanne 14. okt. 2011 Eesti TA korraldatud akadeemik Paul Kogermani 120. sünniaastapäevale ja akadeemik Ülo Lille 80. sünnipäevale pühendatud seminaril "Orgaaniline-bioorgaaniline süntees"]

Samel, Nigulas Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 237-240 : ill

Rekombinantse ACLE (algal cyclooxygenase like enzyme) ekspressioon, puhastamine ja kvaternaarstruktuuri analüüs

Kasvandik, Sergo; Varvas, Külliki; Samel, Nigulas XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 39

Sensitivity of platelets to prostaglandins in patients with coronary artery disease

Mardla, Vilja; Kobzar, Gennadi; Rätsep, Indrek; Lõhmus, Madis; Järving, Ivar; Samel, Nigulas Proceedings of the Estonian Academy of Sciences. Biology. Ecology 2001 / 1, p. 33-36

Short-term exposure of platelets to glucose impairs inhibition of platelet aggregation by cyclooxygenase inhibitors

Kobzar, Gennadi; Mardla, Vilja; Samel, Nigulas Platelets 2011 / p. 338-344 : ill <https://pubmed.ncbi.nlm.nih.gov/21557683/>

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

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

Structural and catalytic insights into the algal prostaglandin H synthase reveal atypical features of the first non-animal cyclooxygenase

Varvas, Külliki; Kasvandik, Sergo; Hansen, Kristella; Järving, Ivar; Morell, Indrek; Samel, Nigulas Biochimica et biophysica acta : molecular and cell biology of lipids 2013 / p. 863-871 : ill <https://doi.org/10.1016/j.bbalip.2012.11.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and functional comparison of 15S- and 15R-specific cyclooxygenases from the coral *Plexaura homomalla*

Valmsen, Karin; Boeglin, William E.; Järving, Ivar; Schneider, Claus; Varvas, Külliki; Brash, Alan R.; Samel, Nigulas Eur. J. Biochem. 2004 / p. 3533-3538 : ill <https://febs.onlinelibrary.wiley.com/doi/full/10.1111/j.0014-2956.2004.04289.x>

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Structure and regulation of arachidonate 11R-lipoxygenase = Arahhidoonhappe 11R-lipoksügenaasi struktuur ja regulatsioon

Eek, Priit 2018 <https://digi.lib.ttu.ee/i/?9953> https://www.ester.ee/record=b5056537*est

Structure of a calcium-dependent 11R-lipoxygenase suggests a mechanism for Ca²⁺ regulation

Eek, Priit; Järving, Reet; Järving, Ivar; Gilbert, Nathaniel C.; Newcomer, Marcia E.; **Samel, Nigulas** The journal of biological chemistry 2012 / p. 22377-22386 : ill <https://pubmed.ncbi.nlm.nih.gov/22573333/>

Teaduspreemia keemia ja molekulaarbioloogia alal tööde tsükli "Prostaglandiinide biosüntees selgrootutes" eest : Nigulas Samel (kollektiivi juht), Ivar Järving, Reet Koljak, Karin Valmsen, Külliki Varvas Samel, Nigulas; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Varvas, Külliki Eesti Vabariigi teaduspreemiad 2002 2002 / lk. 30-40 : portr., ill

The basis of prostaglandin synthesis in coral : molecular cloning and expression of a cyclooxygenase from the arctic soft coral *Gersemia fruticosa*

Koljak, Reet; Järving, Ivar; Kurg, Reet; Boeglin, William E.; **Varvas, Külliki; Valmsen, Karin**; Ustav, Mart; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 2001 / 10, p. 7033-7040 : ill

The dioxygenases in the soft coral *Gersemia fruticosa* : origin of the oxygen, the effect of selective inhibitors

Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Müürisepp, Aleksander-Mati; Liiv, Milana; Samel, Nigulas 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 160

The modelling and kinetic investigation of the lipase-catalysed acetylation of stereoisomeric prostaglandins

Vallikivi, Imre; Fransson, Linda; Hult, Karl; **Järving, Ivar; Pehk, Tõnis; Samel, Nigulas; Tõugu, Vello; Villo, Ly; Parve, Omar** Journal of molecular catalysis B : enzymatic 2005 / p. 62-69 : ill

The origin of 15R-prostaglandins in the Caribbean coral *Plexaura homomalla* : molecular cloning and expression of a novel cyclooxygenase

Valmsen, Karin; Järving, Ivar; Boeglin, William E.; **Varvas, Külliki; Koljak, Reet; Pehk, Tõnis**; Brash, Alan R.; Samel, Nigulas Proceedings of the National Academy of Sciences of the United States of America 2001 / 14, p. 7700-7705 <https://www.pnas.org/doi/full/10.1073/pnas.131022398>

Trombotsüütide agregatsiooni inhibeerimine B6-vitamiini vitameeridega in vitro koronaarhaigetel

Mardla, Vilja; Rätsep, Indrek; **Kobzar, Gennadi; Špitsmeister, Merli; Samel, Nigulas** Eesti Arst 2008 / 12, lk. 923-929 : ill https://artiklid.elnet.ee/record=b1067994*est

Tsüklooksügenaas kirpvähilistest : kloneerimine, ekspresseerimine ja iseloomustamine

Hansen, K.; Kurg, Reet; **Varvas, Külliki; Järving, Ivar; Järving, Reet; Valmsen, Karin; Samel, Nigulas** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 30-31

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 <https://doi.org/10.1371/journal.pone.0089215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uued tsütotoksilised steroidid korallist *Gersemia fruticosa* = New cytotoxic sterols from the soft coral *Gersemia fruticosa*

Koljak, Reet; Lopp, Annika; Pehk, Tõnis; Varvas, Külliki; Järving, Ivar; Samel, Nigulas XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 81-82 https://www.ester.ee/record=b1070511*est

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

Ülo Lille 70

Samel, Nigulas Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / p. 195-196

Получение метаболитов тромбксана A2 и природных E-простагландинов : автореферат ... кандидата химических наук (02.00.03)

Järving, Ivar 1991 https://www.ester.ee/record=b1205942*est