

Alleenoksiidi süntees korallis lipoksügenaasi ja katalaastüüpi domeenidest koosneva bifunktsionaalse ensüümi abil
Koljak, Reet; Shieh, Bih-Hwa; Brash, Alan R. XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 52

Allene oxide synthesis in coral by a novel bifunctional enzyme with lipoxygenase and catalase-like domains
Koljak, Reet; Shieh, Bih-Hwa; Brash, Alan R. 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 58

An NMR spectroscopic investigation of functional group selectivity of lipase-catalysed reactions of 11-acetyl prostaglandins E1 and E2

Villo, Ly; Tamp, Sven; Vallikivi, Imre; Järving, Ivar; Pehk, Tõnis; Parve, Omar Proceedings of the 9th International Symposium on Biocatalysis and Biotransformations - (Biotrans 2009) Held in Bern, Switzerland 5-9 July 2009 2010 / p. 66

Biosynthesis of prostaglandins in invertebrates : National Prize 2002

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

Bitsükloheptaanist asabitsükloheptaanini : [ettekanne 14. okt. 2011 Eesti TA korraldatud akadeemik Paul Kogermani 120. sünniaastapäevale ja akadeemik Ülo Lille 80. sünnipäevale pühendatud seminaril "Orgaaniline-bioorgaaniline süntees"]
Kanger, Tõnis Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 233-236 : fot

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

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/>

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 of biological chemistry 2002 / p. 478-485

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>

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>

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

E-prostaglandiinide teke : väitekiri on esitatud Tallinna Tehnikaülikooli loodusteaduste magistrikraadi taotlemiseks : magistritöö

Kristjuhan, Siret 1994 https://www.ester.ee/record=b2089668*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

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.

Inhibition of platelet aggregation with combination of antiplatelet agents = Trombotsüütide agregatsiooni inhibeerimine antiagregatiivsete ainete kombineerimisega

Mardla, Vilja 2008 https://www.ester.ee/record=b2367690*est

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

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

Lipase-catalysed reactions of prostaglandins

Vallikivi, Imre 2004 https://www.ester.ee/record=b1990575*est

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

Kukk, Kaia; Kasvandik, Sergio; **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, Sergio; **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](#)

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

Potential 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 aastaruanne 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 punavetikates

Varvas, Külliki; Hansen, Kristella; Kasvandik, Sergio XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 106

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

Valmsen, Karin; Samel, Nigulas XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 179-180

Prostaglandin D2 receptor DP1 antibodies predict vaccine-induced and spontaneous narcolepsy type 1 : large-scale study of antibody profiling

Sadam, Helle; Pihlak, Arno; Kivil, Anri; Pihelgas, Susan; **Jaago, Mariliis; Palm, Kaia** EBioMedicine 2018 / p. 47-59

<https://doi.org/10.1016/j.ebiom.2018.01.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 refereaadid = 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>

Sapihapete ja prostaglandiinide derivaatide ja konjugaatide süntees ning nende mõju candida rugosa lipaasi aktiivsusele

Veskilt, Eva; Villo, Ly; Kudrjašova, Marina; Parve, Omar XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 108 : ill

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

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

Varvas, Külliki; Kasvandik, Sergio; 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](#)

Synthesis and antiproliferative activity of 15-oxoprostaglandins : contribution of the W-chain enone group to cytotoxicity

Lopp, Margus; Lopp, Annika; Paju, Anne; **Lille, Ülo; Pehk, Tõnis** Bioorganic & medicinal chemistry letters 1994 / 14, p. 1739-1744: ill

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 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>

Uued tsütotoksilised 15-oksoprostaglandiinid : süntees ja antiproliferatiivne aktiivsus inimese leukeemia K562 rakuliinil

Lopp, Annika; Paju, Anne; **Pehk, Tõnis**; Lopp, Margus XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 67-70

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

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

Простенон : синтез, свойства, применение : [сборник статей]

1989 https://www.ester.ee/record=b1245586*est

Химический синтез и влияние олигомеров 16, 16-диметил-15-кето аналога простагландина B₁ на окислительное фосфорилирование в митохондриях : автореферат ... кандидата химических наук (02.00.03)

Martin, Ivar 1991 https://www.ester.ee/record=b1205941*est