

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

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

Cloning, expression and characterization of cyclooxygenase gene from amphipods

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

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

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>

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>

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

Evaluation of Zn²⁺- and Cu²⁺-binding affinities of native Cu,Zn-SOD1 and its G93A mutant by LC-ICP MS

Smirnova, Julia; Gavrilova, Julia; Noormägi, Andra; Valmsen, Karin; Pupart, Hegne; Luo, Jinghui; Tõugu, Vello; Palumaa, Peep Molecules 2022 / art. 3160 <https://doi.org/10.3390/molecules27103160> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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 <https://www.sciencedirect.com/science/article/abs/pii/S030441650700253X>

Imetaja ja koralli tsüklooksügenaasi struktuuririnevused

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

Insulin fibrillization at acidic and physiological pH values is controlled by different molecular mechanisms

Noormägi, Andra; Valmsen, Karin; Tõugu, Vello; Palumaa, Peep The protein journal 2015 / p. 398-403 : ill <https://doi.org/10.1007/s10930-015-9634-x> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Korallide dioksügenaasid : võrdlus teiste dioksügenaasidega

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

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

Orgaaniline keemia : õpik kõrgkoolidele

Carey, Francis A; Giuliano, Robert M 2014 http://www.estee.ee/record=b3084143*est

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

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

Polyprotein processing of Cocksfoot mottle sobemovirus

Uffert, Gabriela; **Sõmera, Merike**; **Söber, Kärt**; **Kivisaar, Kätlin**; **Nummert, Grete**; **Valmsen, Karin**; **Truve, Erkki** International Union of Microbiological Societies Congresses : July 27 - August 1, 2014 : IUMS 2014 : abstracts 2014 / p. 211

[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 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

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>

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 eff[e]ct 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 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>

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