

**A conserved  $\pi$ -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>

**Eicosanoid diversity of stony corals**

**Löhelaid, Helike; Samel, Nigulas** Marine drugs 2018 / p. 1-14 : ill <https://doi.org/10.3390/md16010010> [Journal metrics at Scopus](#)  
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**A fungal catalase reacts selectively with the 13S fatty acid hydroperoxide products of the adjacent lipoxygenase gene and exhibits 13S-hydroperoxide-dependent peroxidase activity**

**Teder, Tarvi; Boeglin, William E.; Schneider, Claus; Brash, Alan R.** Biochimica et Biophysica Acta (BBA) - molecular and cell biology of lipids 2017 / p. 706-715 : ill <http://dx.doi.org/10.1016/j.bbalip.2017.03.011>

**Gly188Arg substitution eliminates substrate inhibition in arachidonate 11R-lipoxygenase**

**Pöldemaa, 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](#)

**Lipoxygenase-allene oxide synthase pathway in octocoral thermal stress response**

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**Lipoxygenase-catalyzed transformation of epoxy fatty acids to hydroxy-endoperoxides : a potential P450 and lipoxygenase interaction**

**Teder, Tarvi; Boeglin, William E.; Brash, Alan R.** Journal of lipid research 2014 / p. 2587-2596 : ill <http://dx.doi.org/10.1194/jlr.M054072>

**Oxidation of C18 hydroxylpolyunsaturated fatty acids to epoxide or ketone by catalase-related hemoproteins activated with iodolbenzene**

**Teder, Tarvi; Boeglin, William E.; Brash, Alan R.** Lipids 2017 / p. 587-597 : ill <https://doi.org/10.1007/s11745-017-4271-0>

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

**Eek, Priit; Pöldemaa, 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>