

Albumin affects the stability, oligomerization and ligand interactions of lipoprotein lipase

Risti, Robert; Gunn, Kathryn H.; **Hiis-Hommuk, Kristofer**; **Seeba, Natjan-Naatan**; **Villo, Ly**; **Vendelin, Marko**; Neher, Saskia B.; **Lõokene, Aivar** Atherosclerosis 2022 / p. 68 <https://doi.org/10.1016/j.atherosclerosis.2022.06.428>

Albumin and heparin together or separately - different outcome on lipoprotein lipase oligomerization and stability

Risti, Robert; Gunn, K.; **Villo, Ly**; **Hiis-Hommuk, Kristofer**; **Seeba, Natjan-Naatan**; **Karimi, Hamed**; **Vendelin, Marko**; Neher, Saskia B.; **Lõokene, Aivar** FEBS Open Bio 2023 / p. 223 <https://doi.org/10.1002/2211-5463.13646>

Angiopoietin-like protein 4 converts lipoprotein lipase to inactive monomers and modulates lipase activity in adipose tissue

Sukonina, V.; **Lõokene, Aivar**; Olivecrona, T.; Olivecrona, G. Proceedings of the National Academy of Sciences of the United States of America 2006 / 46, p. 17450-17455 <https://pubmed.ncbi.nlm.nih.gov/17088546/>

Apolipoprotein A-I infusions and cardiovascular outcomes in acute myocardial infarction according to baseline LDL-cholesterol levels: the AEGIS-II trial

Gibson, Charles Michael; Duffy, Danielle; Bahit, Maria Cecilia; Chi, Gerald; White, Harvey; Korjian, Serge; Alexander, John Hunter P.; Lincoff, A. Michael; Heise, Mark; Kingwell, Bronwyn A.; **Viigimaa, Margus** European Heart Journal 2024 / p. 5023 - 5038 <https://doi.org/10.1093/eurheartj/ehae614> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Apolipoprotein A-V-heparin interactions : implications for plasma lipoprotein metabolism

Lõokene, Aivar; Beckstead, Jennifer; Nilsson, S.; Olivecrona, G.; Ryan, R.O. Journal of biological chemistry 2005 / 27, p. 25383-25387 <https://pubmed.ncbi.nlm.nih.gov/15878877/>

Apolipoprotein C-II : the re-emergence of a forgotten factor

Wolska, Anna; **Reimund, Mart**; Remaley, Alan T. Current opinion in lipidology 2020 / p. 147-153 <https://doi.org/10.1097/MOL.0000000000000680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Apolipoprotein C-II mimetic peptide is an efficient activator of lipoprotein lipase in human plasma as studied by a calorimetric approach

Reimund, Mart; Wolska, Anna; **Risti, Robert**; Wilson, Sierra; Sviridov, Denis O.; Remaley, Alan T.; **Lõokene, Aivar** Biochemical and biophysical research communications 2019 / p. 67-72 <https://doi.org/10.1016/j.bbrc.2019.08.130> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Apolipoprotein mimetic peptides : potential new therapies for cardiovascular diseases

Wolska, Anna; **Reimund, Mart**; Sviridov, Denis O.; Amar, Marcelo J.; Remaley, Alan T. Cells 2021 / art. 597 <https://doi.org/10.3390/cells10030597>

Apolipoproteins C-I and C-III inhibit lipoprotein lipase activity by displacement of the enzyme from lipid droplets

Larsson, Mikael; Vorrjö, Evelina; Talmund, Philippa; **Lõokene, Aivar**; Olivecrona, Gunilla Journal of biological chemistry 2013 / p. 33997-34008 : ill <https://doi.org/10.1074/jbc.M113.495366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aterogeensete lipoproteiinide määramine Euroopa uusimate soovituste alusel

Serg, Martin; Zemtsovskaja, Galina; **Viigimaa, Margus** Eesti Arst 2021 / lk. 295-299 : ill http://www.ester.ee/record=b1072028*est <https://ojs.utlib.ee/index.php/EA/article/view/17432>

1,1'-bis(anilino)-4,4'-bis(naphtalene)-8,8'-disulfonate acts as an inhibitor of lipoprotein lipase and competes for binding with apolipoprotein CII

Lõokene, Aivar; Zhang, L.; Tõugu, Vello; Olivecrona, G. Journal of biological chemistry 2003 / p. 37183-37194 <https://doi.org/10.1074/jbc.m303894200>

Calcium triggers folding of lipoprotein lipase into active dimers

Zhang, L.; **Lõokene, Aivar**; Wu, G.; Olivecrona, G. Journal of biological chemistry 2005 / 52, p. 42580-42591 <https://pubmed.ncbi.nlm.nih.gov/16179346/>

Calorimetric assay reveals the importance of substrate choice for determination of lipoprotein lipase activity

Risti, Robert; **Villo, Ly**; **Lõokene, Aivar** Atherosclerosis 2021 / p. e122 <https://doi.org/10.1016/j.atherosclerosis.2021.06.361> [Journal metrics 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

Calreticulin promotes folding/dimerization of human lipoprotein lipase expressed in insect cells (sf21)

Zhang, L.; Wu, G.; Tate, C.G.; **Lõokene, Aivar**; Olivecrona, G. Journal of biological chemistry 2003 / 31, 29344-29351

Combined action of albumin and heparin regulates lipoprotein lipase oligomerization, stability, and ligand interactions
Risti, Robert; Gunn, Kathryn H.; Hiis-Hommuk, Kristofer; Seeba, Natjan-Naatan; Karimi, Hamed; Villo, Ly; Vendelin, Marko; Neher, Saskia B.; **Lõokene, Aivar** PLoS ONE 2023 / art. e0283358, 24 p. : ill <https://doi.org/10.1371/journal.pone.0283358> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Eesti teadlase töö apolipoproteiin B kohta avaldati ajakirjas Nature

Rospu, Piret med24.ee 2024 [Eesti teadlase töö apolipoproteiin B kohta avaldati ajakirjas Nature](#)

Effects of six APOA5 variant, identified in patients with severe hyperglyceridemia, on in vitro lipoprotein lipase activity and receptor binding

Dorfmeister, B.; Zeng, W.W.; **Lõokene, Aivar** Arteriosclerosis, thrombosis and vascular biology 2008 / 10, p. 1866-1871
<https://pubmed.ncbi.nlm.nih.gov/18635818/>

Evaluation of lipoprotein(a) in the prevention and management of atherosclerotic cardiovascular disease : a survey among the Lipid Clinics Network

Catapano, Alberico L.; Tokgozoglul, Lale; Banach, Maciej; Gazzotti, Marta; Olmastroni, Elena; Casula, Manuela; Ray, Kausik K.; **Viigimaa, Margus** Atherosclerosis 2023 / p. 5 - 11 <https://doi.org/10.1016/j.atherosclerosis.2023.02.007>

Fatty acids bind tightly to the N-terminal domain of angiopoietin-like protein 4 and modulate its interaction with lipoprotein lipase

Robal, Terje; Larsson, Mikael; **Martin, Miina**; Olivecrona, Gunilla; **Lõokene, Aivar** The journal of biological chemistry 2012 / p. 29739-29752 : ill <https://pubmed.ncbi.nlm.nih.gov/22773878/>

Functional analyses of human apolipoprotein CII by site-directed mutagenesis : identification of residues important for activation of lipoprotein lipase

Shen, Y.; **Lõokene, Aivar**; Nilsson, S.; Olivecrona, G. Journal of biological chemistry 2002 / 6, p. 4334-4342
<https://pubmed.ncbi.nlm.nih.gov/11719505/>

Glükosüülfosfatidüülinoositol ankurdatud kõrge tihedusega lipoproteiine siduva valk ühe N-terminaalse domääni roll interaktsioonis lipoproteiinlipaasiga

Reimund, Mart; **Robal, Terje**; Lillepruun, Miina; **Lõokene, Aivar** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 84

Identification of a small molecule that stabilizes lipoprotein lipase in vitro and lowers triglycerides in vivo

Larsson, Mikael; Caraballo, Remi; **Lookene, Aivar** Biochemical and biophysical research communications 2014 / p. 1063-1069 : ill <https://doi.org/10.1016/j.bbrc.2014.06.114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isolation and characterization of low sulfated heparan sulfate sequences with affinity for lipoprotein lipase

Spillmann, Dorothe; **Lõokene, Aivar**; Olivecrona, Gunilla Journal of biological chemistry 2006 / 33, p. 23405-23413 : ill <https://www.sciencedirect.com/science/article/pii/S0021925819463783>

Leptin acutely increases hepatic triglyceride secretion in patients with lipodystrophy

Beghini, Marianna; Metz, Matthäus; Baumgartner, Clemens; Wolf, Peter; Bastian, Magdalena; Hackl, Martina; Baumgartner-Parzer, Sabina; Marculescu, Rodrig; **Risti, Robert**; **Lõokene, Aivar** Metabolism 2025 / art. 156261
<https://doi.org/10.1016/j.metabol.2025.156261>

Lipoproteiiniga seostunud fosfolipaas A2 kui uus sõltumatu kardiovaskulaarne riskitegur ja ravi sihtmärk

Viigimaa, Margus Eesti Arst 2013 / lk. 92-97 : ill https://artiklid.elnet.ee/record=b2604075*est

Lipoproteiinlipaasi aktiivsuse regulatsioon angiopoietini-sarnase valgu 4 kaudu ning seda mõjutavad tegurid

Robal, Terje; Lillepruun, Miina; **Lõokene, Aivar** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 69

Lipoprotein lipase activity and interactions studied in human plasma by isothermal titration calorimetry

Reimund, Mart; Kovrov, Oleg; Olivecrona, Gunilla; **Lõokene, Aivar** Journal of lipid research 2017 / p. 279-288 : ill <https://doi.org/10.1194/jlr.D071787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metric at WOS](#) [Article at WOS](#)

Lipoprotein lipase activity does not differ in the serum environment of vegans and omnivores

Seeba, Natjan-Naatan; **Risti, Robert**; **Lõokene, Aivar** Nutrients 2023 / art. 2755 <https://doi.org/10.3390/nu15122755> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lipoprotein particles in cheese whey : composition and influence on microfiltration

Friedenthal, Margus; Dejmek, P.; Burling, H. Milk proteins : structure and functional properties : 11-12 November, 1996, Lund, Sweden : abstract book 1996

Lipoprotein(a) and Benefit of PCSK9 inhibition in patients with nominally controlled LDL cholesterol

Schwartz, Gregory G.; Szarek, Michael; Bittner, Vera A.; Diaz, Rafael; Goodman, Shaun G.; **Viigimaa, Margus** Journal of the American College of Cardiology 2021 / p. 421–433 : ill <https://www.jacc.org/doi/epdf/10.1016/j.jacc.2021.04.102>
<https://doi.org/10.1016/j.jacc.2021.04.102>

Lipoprotein-associated phospholipase A2 activity is a marker of risk but not a useful target for treatment in patients with stable coronary heart disease

Wallentin, Lars; Held, Claes; Armstrong, Paul W.; Cannon, Christopher Paul; Davies, Richard Y.; Granger, Christopher B.; Hagström, Emil; Harrington, Robert A.; **Viigimaa, Margus** Journal of the American Heart Association 2016 / art. e003407
<https://doi.org/10.1161/JAHA.116.003407> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mysterious lipoprotein particles from cheese whey : isolation and characterisation

Friedenthal, Margus; Burling, H.; Dejmek, P. NorFa Workshop : Milk Proteins, Structure and Functional Properties, 28-30.11.1998, Naantali, Finland : abstracts 1998 / p. 65

A negatively charged cluster in the disordered acidic domain of GPIHBP1 provides selectivity in the interaction with lipoprotein lipase

Risti, Robert; Reimund, Mart; Seeba, Natjan-Naatan; Löökene, Aivar Scientific reports 2024 / art. 19639
<https://doi.org/10.1038/s41598-024-70468-6> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

New aspects in stabilization and activation mechanisms of lipoprotein lipase = Uudsed aspektid lipoproteiinlipaasi stabiilsuse ja aktiivsuse regulatsioonis

Reimund, Mart 2019 <https://digikogu.taltech.ee/et/Item/e172019a-13cb-449f-bbe5-a471316ecfbb>

PCSK9 Inhibitor causes a decrease in the level of oxidatively modified low-density lipoproteins in patients with coronary artery diseases

Lankin, Vadim Z.; Tikhaze, Alla K.; **Viigimaa, Margus; Chazova, Irina Evgenievna** Terapevticheskii Arkhiv 2018 / p. 27-30
<https://doi.org/10.26442/terarkh201890927-30> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Prevalence of dyslipidemia in statin-treated patients in the Baltic states (Estonia, Latvia, and Lithuania): Results of the Dyslipidemia International Study (DYSIS)

Viigimaa, Margus; Erglis, Andrejs; Latkovskis, Gustavs; Mäeots, Ene; Petrulioniene, Žaneta; Šlapikas, Rimvydas; Gocentiene, Anete; Bramlage, Peter; Brudi, Philippe Medicina (Lithuania) 2014 / p. 44-53 : ill <https://doi.org/10.1016/j.medic.2014.05.003> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Rapid subunit exchange in dimeric lipoprotein lipase and properties of the inactive monomer

Löökene, Aivar; Zhang, L.; Hultin, M.; Olivecrona, G. Journal of biological chemistry 2004 / 48, p. 49964-49972
<https://www.sciencedirect.com/science/article/pii/S0021925820677857>

Surface plasmon resonance studies of lipoprotein interactions

Löökene, Aivar The 1st International Conference of Biomedical Spectroscopy : from Molecules to Man 2002 / ? p

The initiation of free radical peroxidation of low-density lipoproteins by glucose and its metabolite methylglyoxal: A common molecular mechanism of vascular wall injury in atherosclerosis and diabetes

Lankin, Vadim Z.; Konovalova, Galina G.; Tikhaze, Alla K.; Shumakov, Konstantin; Kumsikova, Elena; **Viigimaa, Margus** Molecular and cellular biochemistry 2014 / p. 241-252 : ill <https://doi.org/10.1007/s11010-014-2131-2> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Triacylglycerol-rich lipoproteins protect lipoprotein lipase from inactivation by ANGPTL3 and ANGPTL4

Nilsson, Stefan K.; **Löökene, Aivar** Biochimica et biophysica acta : molecular and Cell biology of lipids 2012 / p. 1370-1378 : ill <https://pubmed.ncbi.nlm.nih.gov/22732211/>

Uudne meetod aitab leida liigkõrgele vererasva tasemele kiiremini ravi

Seeba, Natjan-Naatan err.ee 2025 [meetod aitab leida liigkõrgele vererasva tasemele kiiremini ravi](https://meetod.aitab.leida.liigkõrgele.vererasva.tasemele.kiiremini.ravi) Uudne meetod aitab leida liigkõrgele vererasva tasemele kiiremini ravi

Uudsed mehhanismid lipoproteiinlipaasi aktiivsuse ja stabiilsuse regulatsioonis

Robal, Terje; Lillepruun, Miina; Reimund, Mart; Löökene, Aivar XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 87

Varajase südameinfarkti ohtu tüürib uudne riskitegur

Vikat, Marilin Postimees 2022 / Lk. 9 : fot <https://dea.digar.ee/article/postimees/2022/01/04/7.1>