

Acidification by nitrogen metabolism triggers extracellular biopolymer production in an oleaginous yeast

Sepulveda Del Rio Hamacek, Henrique; Tingajeva, Oksana; Ostertag, Katharina; Rekena, Alina; Illarionov, Aleksandr; Jõul, Piia; Monteiro de Oliveira, Paola; de la Caridad Martin-Hernandez, Giselle; Müller, Bettina; Bonturi, Nemailla; Passoth, Volkmar; Lahtvee, Petri-Jaan; Kumar, R. Applied and environmental microbiology 2025 / rt. e00947-25, 23 p
<https://doi.org/10.1128/aem.00947-25> <https://journals.asm.org/doi/10.1128/aem.00947-25>

The design-build-test-learn cycle for investigating lipid synthesis in oleaginous *Rhodotorula toruloides*

Rekena, Alina; Gavrilovic, Srdjan; Lahtvee, Petri-Jaan The 7th applied synthetic biology in Europe : programme and abstracts 2024 / p. 80 <https://bipeek-resources-onsite-prd.s3.amazonaws.com/54015/ASBE7-Programme-and-Abstract-Book.pdf?v=1730830392>

Ethylene glycol metabolism in the oleaginous yeast *Rhodotorula toruloides*

Senatore, Vittorio Giorgio; Rekena, Alina; Mapelli, Valeria; Lahtvee, Petri-Jaan; Branduardi, Paola Applied Microbiology and Biotechnology 2025 / art. 114 <https://doi.org/10.1007/s00253-025-13504-3>

Metabolic regulation of acetyl-CoA and NADPH production pathways in *Rhodotorula Toruloides*

Rekena, Alina; Gavrilovic, Srdjan; Lahtvee, Petri-Jaan Metabolic Engineering 16 (ME16) : conference proceedings 2025 / art. 706872 <https://aiche.confex.com/aiche/me16/meetingapp.cgi/Paper/706872>

Quantitative systems biology analysis of lipid-producing yeast *Rhodotorula toruloides* cultivation

Rekena, Alina; Pinheiro, Marina Julio; Pals, Kristjan; Belouah, Isma; Bonturi, Nemailla; Gavrilovic, Srdjan; Kerkhoven, Eduard Johannes; Lahtvee, Petri-Jaan FEBS3+ Baltics : Biochemistry at the Fore Line : Abstract Book 2025 / p. 69 [FEBS3+ Abstract Book \(PDF\)](#)