

Peer-reviewed articles

Algem PRO (current to June 2025, 53 articles)

- Song, S., Aljedaani, F., Liew, K. X., Mi, J., Salem, M., Bougouffa, S., Overmans, S., Lauersen, K. J., Zheng, X., & Al-Babili, S. Sustainable and secretory production of saffron pigments in *Synechocystis* sp. PCC 6803 and *E. coli*. Plant Communications (2025), 101388.
- Masson, M.L.P., Bastos de Freitas, B., Zybinskii, A., Althagafi, G., Amad, M., Fox, M.D., Peter J. Lammers, P.J., and Lauersen, K.J. Elevated carbon dioxide stimulates highly efficient organic-carbon consumption and confectionary-waste valorization under mixotrophy in the unicellular alga *Galdieria*. bioRxiv 2025.05.22.655468.
- Yahya, R.Z., Overmans, S., Wellman, G.B. and Lauersen, K.J. Engineered isoprene production from *Chlamydomonas reinhardtii* using herbicide selection markers and CO₂-fed cultivation optimization through multi-parallel photobioreactor headspace gas analysis. bioRxiv (2025) 04.22.649625.
- Wu, J., Cagney, N., Meeten, G.H., Jones, T.G.J. and Boek, E.S. Compressibility and permeability of flocculated microalgal sediment in filtration-permeation. J Water Process Eng, Volume 74 (2025) 107795.
- Wu, J., Meeten, G.H., Jones, T.G.J., Cagney, N and Boek, E.S. Membrane fouling during the harvesting of microalgae using static microfiltration. Separation and Purification Tech, Volume 353 (2025), Part A, 127737.

- Elghazy, E., Davies, M.M.J., Farr, N.T.H., Rodenburg, C., Willmott, J.R. and Pandhal, J. Capturing microalgae within aerosols provides carbon capture bio-functionality. *J CO₂ Utilization*. Volume 92, (2025) 103024.
- Overmans, S., Gallo Jr, A., Mishra, H. and Lauersen, K.J. Sustainable in situ extraction of microalgae-derived terpenoids using functionalized silica microparticles. *Separation and Purification Tech.* Volume 362 (2025), Part 2, 131837.
- Freyria, N.J., de Oliveira, T.C., Chovatia, M. *et al.* Stress responses in an Arctic microalga (*Pelagophyceae*) following sudden salinity change revealed by gene expression analysis. *Commun Biol* 7 (2024), 1084.
- Elghazy, E., Syed, M.D., Wianglor, K., Tetali, S., Raut, M., Roy, I. and Pandhal, J. Large-scale cultivation of *Synechocystis* sp. PCC6803 for the production of Poly(3-hydroxybutyrate) and its potential applications in the manufacturing of bulk and medical prototypes. *New Biotechnology*, Volume 83 (2024), 133-141.
- Villegas-Valencia, M., Stark, M. R., Seger, M., Wellman, G. B., Overmans, S., Lammers, P. J., Rader, S. D., & Lauersen, K. J. A rapid CAT transformation protocol and nuclear transgene expression tools for metabolic engineering in *Cyanidioschyzon merolae* 10D. *bioRxiv* (2024) .07.30.605877.
- Faustino, M.; Machado, D.; Rodrigues, D.; Andrade, J.C.; Freitas, A.C.; Gomes, A.M. Design and characterization of a cheese spread incorporating *Osmunda pinnatifida* extract. *Foods* (2023), 12, 611.
- Cruz, J.D., Delattre, C., Felpeto, A.B. *et al.* Bioprospecting for industrially relevant exopolysaccharide-producing cyanobacteria under Portuguese simulated climate. *Sci Rep* (2023) 13, 13561.
- Celente, Gleison, de Cassia de Souza Schneider, Rosana, Julich, Jennifer, Medianeira Rizzetti, Tieles, Alcayaga Lobo, Eduardo and Sui, Yixing. Life cycle assessment of microalgal cultivation medium: biomass, glycerol, and beta-carotene

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- Ozawa-Uyeda, Takehiro A., Sebastian J. Overmans, Barbara Bastos de Freitas, Edmundo Lozoya-Gloria, and Kyle J. Lauersen. "Comparison of alternative solvents for in situ extraction of hydrocarbons from the colonial green alga *Botryococcus braunii* race B (Showa)." bioRxiv (2023): 2023-10.
- Yang, Cong, Joyce Cavalcante, Bárbara Bastos de Freitas, Kyle J. Lauersen, and Gyorgy Szekely. "Crude algal biomass for the generation of thin-film composite solvent-resistant nanofiltration membranes." Chemical Engineering Journal 470 (2023): 144153.
- Villegas-Valencia, Melany, Ricardo E. González-Portela, Bárbara Bastos de Freitas, Abdulaziz Al Jahdali, Gabriel I. Romero-Villegas, Raghda Malibari, Rahul Vijay Kapoore, Claudio Fuentes-Grünewald, and Kyle J. Lauersen. "Cultivation of the polyextremophile *Cyanidioschyzon merolae* 10D during summer conditions on the coast of the Red Sea and its adaptation to hypersaline sea water." Frontiers in Microbiology 14 (2023): 1157151.
- Taunt, H.N., Jackson, H.O., Gunnarsson, I.N., Pervaiz, R. and Purton, S. Accelerating chloroplast engineering: A new system for rapid generation of marker-free transplastomic lines of *Chlamydomonas reinhardtii*. Microorganisms, (2023) 11(8), p.1967.
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- Seger, Mark, Fakhriyya Mammadova, Melany Villegas-Valencia, Bárbara Bastos de Freitas, Clarissa Chang, Iona Isachsen, Haley Hemstreet et al. "Engineered ketocarotenoid biosynthesis in the polyextremophilic red microalga *Cyanidioschyzon merolae* 10D." bioRxiv (2023): 2023-02.
- Booth, Matthew, Andrew Spicer, and Alexandros Kiparissides. "Shedding light on phototrophic biomass production of *Chlorella variabilis*: The importance of dissolved CO₂, light intensity and duty cycle." Biochemical Engineering Journal 179 (2022): 108315.
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- Umaiha Al Hoqani, Rosa León, Saul Purton. Over-expression of a cyanobacterial gene for 1-deoxy-d-xylulose-5-phosphate synthase in the chloroplast of *Chlamydomonas reinhardtii* perturbs chlorophyll: carotenoid ratios. *Journal of King Saud University - Science*, Volume 34, Issue 6, 2022, 102141.
- Schiano di Visconte G, Allen MJ, Spicer A. New Insights from the High-Resolution Monitoring of Microalgae–Virus Infection Dynamics. *Viruses*. 2022; 14(3):466.
- Umaiha Al Hoqani, Rosa León, Saul Purton. Over-expression of a cyanobacterial gene for 1-deoxy-d-xylulose-5-phosphate synthase in the chloroplast of *Chlamydomonas reinhardtii* perturbs chlorophyll: carotenoid ratios. *Journal of King Saud University - Science*, Volume 34, Issue 6, 2022, 102141.
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Algem HT24 (sold first unit 2021, 8 articles)

- Abdelkarim, O.H., Wijffels, R.H. & Barbosa, M.J. Microalgal lipid production: A comparative analysis of *Nannochloropsis* and *Microchloropsis* strains. *J Appl Phycol* 37 (2025), 15–34.
- Südfeld, Christian, Aamna Kiyani, Katrin Wefelmeier, René H. Wijffels, Maria J. Barbosa, and Sarah D'Adamo. "Expression of glycerol-3-phosphate acyltransferase increases non-polar lipid accumulation in *Nannochloropsis oceanica*." *Microbial Cell Factories* 22, no. 1 (2023): 1-14.
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Book Chapters, Review Papers and Conference Proceedings

- Overmans, S., & Lauersen, K. J. (2023). Novel approaches for in situ extraction of heterologous metabolites from living microalgae cultures. Algal BBB, (2023).
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Masters and PhD Theses (to date) (Algem PRO and Algem HT24, 31 😊)

- Yahya, R.Z. "Engineered volatile isoprene production from the eukaryotic green model microalga *Chlamydomonas reinhardtii*" (2024) King Abdullah University of Science and Technology, Doctoral Thesis.
- Booth, Matthew "Development of a turbidostat photo-bioreactor to investigate the effects of process parameters on the physiology and growth of micro-algae". (2023) Doctoral thesis (Eng.D), UCL (University College London).
- Grisenthwaite, Robert. "Establishing land tank cultivation of *Asparagopsis taxiformis* in Scotland". (2023) University of the Highlands and Islands (UHI), Master's Thesis.
- Grabarczyk, Natalia. "Food from the air: Selection and characterization of hydrogen oxidizing bacteria for sustainable anaerobic production of single-cell protein." (2023), Wageningen University, Master's Thesis.
- Schiano Di Visconte, G. "Exploration of scalable industrial platforms for the commercial production of active molecules from microalgae cell walls." (2023). University of Exeter, Doctoral thesis.
- Boisset, Nicolas. « Biologie synthétique de la fixation du carbone chez *Chlamydomonas reinhardtii* ». Biotechnologies. Université Paris-Saclay, (2023). Français.
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- bin Wan Razali, Wan Aizuddin. "Maximising long chain polyunsaturated fatty acids eicosapentaenoic acid biosynthesis of marine microalgae species *Nannochloropsis oculata*." (2022) The University of Sheffield, Doctoral thesis.

- Amaral, Hugo Ricardo Filipe. "OSMAC approach to identify novel metabolites from Spirulina with anti-obesity activity as future nutraceuticals." (2022). University of Porto, Master's thesis.
- Pardasani, Yash. "Survival potential of microalgae for long-term space missions." (2022). University of the Highlands & Islands (UHI), UK, Master's thesis.
- Gonçalves, A. P. R. (2022). Set-up and optimization of a pilot-scale photobioreactor for autotrophic microalgae growth (Doctoral dissertation). <https://hdl.handle.net/1822/80848>, University of Minho, Portugal
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- Moutinho, Mariana Miranda. "Manipulation of growth conditions of cyanobacteria to potentiate the production of high value compounds for obesity treatment." (2021). University of Portugal, Doctoral dissertation.
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- Li, Fuyao. "Cloning and expression of virus-like particles (VLPs) in microalgal expression systems." PhD diss., UCL (University College London), 2019.
- Ravendran Vasudevan, Ravendran. "Characterization of low molecular weight c-type cytochromes in cyanobacteria and plants." PhD diss., University of Cambridge, 2019.

- Josenhans, S. (2019). Environmental and nutritional parameters influencing the growth of *Skeletonema* cultures and optimization of the large-scale production in photobioreactors (Doctoral dissertation, Universidade do Algarve (Portugal)).
- Salazar, J. M. R. (2019). Optimization of the production of fucoxanthin-rich fractions from the microalga *Isochrysis galbana* (Doctoral dissertation, Universidade do Algarve (Portugal)).
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