

Dr. Kyle J. Lauersen

Curriculum Vitae 2026

Associate Professor of Bioengineering
Biological and Environmental Sciences and Engineering Division (BESE)
King Abdullah University of Science and Technology (KAUST)
ORCID [0000-0002-5538-7201](https://orcid.org/0000-0002-5538-7201), LinkedIn [kylejlaundersen](https://www.linkedin.com/in/kylejlaundersen), Twitter/X [@KyleLauersen](https://twitter.com/KyleLauersen)

Nationality: Canadian
Native English speaker
German working competency
kyle.lauersen@kaust.edu.sa

SCIENTIFIC POSITIONS

202507-present – Associate Professor, King Abdullah University of Science & Technology, Saudi Arabia, Bioengineering Program Synthetic Biology Track Leader, PI of [Sustainable & Synthetic Biotechnology \(SSB\) group](#)

202507-present – Adjunct Associate Professor, Arizona State University, School of Sustainable Engineering and the Built Environment, Arizona Center for Algae Technology and Innovation (AzCATI)

202303-202506 – Adjunct Assistant Professor, Arizona State University, School of Sustainable Engineering and the Built Environment, Arizona Center for Algae Technology and Innovation (AzCATI)

201908-202506 – Assistant Professor, King Abdullah University of Science & Technology, Saudi Arabia, Bioengineering Program Synthetic Biology Track Leader.

2015-2019 – Postdoctoral Researcher, Center for Biotechnology (CeBiTec), Bielefeld University, Germany
Group of Prof. Dr. Olaf Kruse, EU Horizon 2020 grant #640720: PHOTOFUEL.

EDUCATION

2011-2014 – Doktors der Naturwissenschaften (Dr. rer. nat./Ph.D.). Biology, Bielefeld University, Germany

Thesis: [Heterologous expression of an ice binding protein from the microalga *Chlamydomonas reinhardtii* with an optimized nuclear gene expression system](#). Thesis: 1.0, Defense: 1.0, Distinction: *Magna cum Laude*
Scholar in the Cluster of Industrial Biotechnology - Graduate Cluster (CLIB-GC)

2009-2011 – Master of Science. Biology, Queen's University, Canada

Thesis: [Lolium perenne antifreeze protein, part of a freeze-tolerance strategy](#)

2008-2009 – Bachelor of Education. Intermediate-Senior, Queen's University

Several school practica and international placement at the American School Foundation of Monterrey, Mexico

2004-2008 – Bachelor of Science (Honours). Biology Major, Queen's University

Honours Thesis: Using an antisense strategy to confirm the identity of a candidate gene in the shrivelled leaf activation tagged mutant poplar and identifying the role of epigenetic modification in the regulation of phenotype in activation tagged *Populus*

RESEARCH INTERESTS

My research interests are shared between the fundamental understanding of gene regulation and metabolism in eukaryotic organisms and the use of synthetic biology to enable sustainable biotechnology with algae. These organisms are fascinating and can serve as platforms for the development of sustainable biotechnological processes using light and waste carbon to generate high-value or bulk consumer products. My research leverages the technologies collectively known as engineering biology (synthetic biology & metabolic engineering) to enable modifications in algae that broaden their applications as green industrial cell factories. I am interested in the use of algae as models to probe the nature of eukaryotic genetic regulation, carbon metabolism, and to translate this fundamental understanding into green biotechnology concepts.

SCHOLARSHIPS & AWARDS

2024 – Laureate, KAUST Distinguished Teaching Award (also nominated in 2023).

2018 – Nominated, DFG Heinz Maier-Leibnitz Prize 2019 by Bielefeld University.

2014 – Laureate, Doctoral Completion Scholarship, Bielefeld Young Researcher's Fund, Bielefeld, Germany.

2011-2014 – Scholar, Cluster of Industrial Biotechnology Graduate program (CLIB-GC), Bielefeld, Germany.

2004 – Laureate, Jennings Scholarship in Life Sciences, the Professional Institute of the Public Service of Canada.

JOURNAL EDITORIAL BOARD POSITIONS

2025-present – Editorial Board member, journal **Critical Insights in Plant Science**.

2024-present – Editorial Board member, journals **New Biotechnology & Blue Biotechnology**.

2024-202512 – Early Career Editorial Board member, journal **ACS Synthetic Biology**.

2023-present – Editorial Board, Associate Editor, journal **Planta**.

20230101-20251231 – Guest Editor of Special issues [1](#) & [2](#) for journal **Algal Research**.

UNIVERSITY & COMMUNITY SERVICE

2026-present – KAUST Bioscience and Bioengineering Dual Program Chair
2025 – KAUST Distinguished Teaching Award selection committee
2025-present – KAUST Academic Council, Elected representative Associate Professor rank.
2023-present – KAUST Prototyping Core Lab (PCL) User Committee, member.
202401-03 – BESE Division & Academic Program Identity Committee, member.
202306 – KAUST Task Force on Postdoc Improvement, Bioscience representative.
2022-2024 – KAUST Academic Council, Elected representative Assistant Professor rank.
202211 – KAUST Core Lab Review, participating faculty.
2020-2023 – KAUST Analytical Core Lab (ACL) User Committee, Member (Chair from 2021-2023).

SOCIETY MEMBERSHIPS

2025-present – Algal Biomass organization, academic member.
2023-present – Sigma Xi, Global, full member at large.
2022-present – American Institute of Chemical Engineers (AIChE), member.
2022-present – Royal Society of Biology UK, member.
2022-present – British Phycological Society, ordinary member.

ORIGINAL RESEARCH (55) *corresponding/senior author Google Scholar h-index 31 i10-index 47

2026 Aljaziri, J., et al., *Biomass and Bioenergy* 208, 108899.
2025* Masson, M.L.P., et al., *Trends in Biotechnology* (In Press) <https://doi.org/10.1016/j.tibtech.2025.10.018>
2025* Abdallah, M., et al., *New Biotechnology* 91, 52-61.
2025 Rousseva, A., et al., *ACS Omega* 10, 44, 52783–52793.
2025* Yahya, R.Z., et al., *Algal Research* 92, 104394.
2025 Valle-Pérez, A., et al., *Engineering Science in Additive Manufacturing* 1(3), ESAM025270017.
2025 Perozeni, F., et al., *ACS Synthetic Biology* 14(9), 5c00510.
2025 Song, S., et al., *Plant Communications* (Correspondence) 6, 101388.
2025 Lezcano, G., et al., *Journal of Analytical and Applied Pyrolysis* 191, 107170.
2025 Perez-Botella, E., et al., *ACS Omega* 10(17), 5c00173.
2025* Overmans, S., et al., *Discover Plants* 2, 104.
2025 Overmans, S., de Freitas B.B., et al., *Sustainability Science and Technology* 2, 014002.
2025* Overmans, S., et al., *Separation and Purification Technology* 362, 131837.
2025* Villegas-Valencia, M., et al., *New Biotechnology* 85, 39-51.
2024* Gutiérrez, S., et al., *ChemBioChem Cover Feature*, e202400902.
2024 Fuhaid, L., et al., *Algal Research* 82, 103668.
2024 Jacobebbinghaus, N., et al., *The Plant Journal* 118, 1400-1412.
2024* Gutiérrez, S., et al., *Green Chemistry* Advance Article doi: 10.1039/D3GC03708H **Back cover article.**
2023 Yang, C., et al., *Chemical Engineering Journal* 470(15), 144153.
2023* Seger, M., et al., *Metabolic Engineering Communications* 17, e00226.
2023* Villegas-Valencia, M., et al., *Frontiers in Microbiology* 14, 1157151.
2023* Yahya, R., et al., *Metabolic Engineering Communications* 16, e00221.
2023 Amendola, S., et al., *ACS Synthetic Biology* 12(3), 820-831.
2023* de Freitas, B.B., et al., *Water Research* 229, 119486.
2022 Kato, N., et al., *Cells* 11, 2724.
2022 Wichmann J., et al., *Microbial Cell Factories* 21(1), 190.
2022* Gutierrez, S., Wellman, G., **Lauersen, K.J.** *Frontiers in Bioengineering and Biotechnology* 10:979607.
2022* Overmans, S. & **Lauersen, K.J.** *RSC Advances* 12, 16632–16639.
2022* Overmans, S., et al., **Lauersen, K.J.** *Green Chemistry* 24, 5479-5489 “GC HOT” & Cover article.
2022* Abdallah, M.N., Wellman, G., Overmans, S., **Lauersen, K.J.** *Frontiers in Microbiology* 13, 1-12.
2021* Kato, N., Nelson, G., **Lauersen, K.J.** *Cells* 10(8), 1940.
2021 Tanaka, T., et al., *Algal Research* 57, 102345.
2021 Kerselidou, D., et al., *Science Advances* 7(19), eabe8349.
2021* Gutierrez, S. & **Lauersen, K.J.** *Biology* 10(4), 265.
2021 Nelson, D.R., Hazzouri K.M., **Lauersen K.J.**, et al., *Cell Host & Microbe* 29(2), 250-266.e8.
2020 Baier, T., Jacobebbinghaus, N., Einhaus, A., **Lauersen, K.J.** & Kruse, O. *PLOS Genetics* 16, e1008944.
2020 Perozeni, F., et al., *Plant Biotechnology Journal* 18(10), 2053-2067.
2019* Jaeger, D., Baier, T., **Lauersen K.J.** *Algal Research* 42, 101588.

- 2019* Durante, L., Hübner W., **Lauersen, K.J.**, Remacle, C. *Plant Direct* 3(6), e00148.
- 2018 Baier, T., Kros, D., Feiner, R.C., **Lauersen, K.J.**, Müller, K.M., Kruse, O. *ACS Synthetic Biology* 7(11), 2547–2557.
- 2018 Crozet, P., *et al.*, *ACS Synthetic Biology* 7(9) 2074-2086.
- 2018 Yunus, I.S., *et al.*, *Metabolic Engineering* 49, 201-211.
- 2018* **Lauersen K.J.**, *et al.*, *Metabolic Engineering* 49, 116-127.
- 2018 Harun, I., *et al.*, *Industrial & Engineering Chemistry Research* 57(31), 10336-10344.
- 2018* Baier, T., Wichmann, J., Kruse, O., **Lauersen, K.J.** *Nucleic Acids Research* 46(13), 6909-6919.
- 2018 Henke N.A., *et al.*, *Genes* 9(4), 219.
- 2018 Wichmann J., Baier T., Wentnagel E., **Lauersen K.J.**, Kruse O. *Metabolic Engineering* 45, 211-222.
- 2016 **Lauersen K.J.**, *et al.*, *Metabolic Engineering* 38, 331-343.
- 2016 **Lauersen K.J.**, Willamme R., Coosemans N., Joris M., Kruse O., Remacle C. *Algal Research* 16, 266–274.
- 2015 **Lauersen K.J.**, *et al.*, *Journal of Biotechnology* 215, 62-71.
- 2015 **Lauersen K.J.**, Kruse O., Mussnug J.H. *Applied Microbiology and Biotechnology* 99(8):3491-3503.
- 2013 **Lauersen K.J.**, *et al.*, *Applied Microbiology and Biotechnology* 97 (22):9763-9772.
- 2013 Bogen C., *et al.*, *BMC Genomics* 14:926.
- 2012 **Lauersen K.J.**, Berger H., Mussnug J.H., Kruse O. *Journal of Biotechnology* 167(2):101-110.
- 2011 **Lauersen K.J.**, Brown A., Middleton A.J., Davies P.L., Walker V.K. *Cryobiology* 62 (3):194-201.

PATENT APPLICATIONS (3)

- 20250511 PCT Filing. **Lauersen, K.J.** US Provisional Design Patent App. No. **30/003,158**.
- 20250109 PCT Filing. Lammers, P., *et al.*, US Provisional Patent App. No. **63/742,730**.
- 20241218 PCT Filing. Lammers, P., *et al.*, US Provisional Patent App. No. **63/735,781**.
- 20230323 PCT Filing. Cavalcante, J., *et al.*, US Provisional Patent App. No. **63/454,210**.
- 20220831 PCT Publication. Overmans, S. & **Lauersen, K.J.** US Provisional Patent App. No. **63/239142**.
- 20140115 PCT Publication. **Lauersen, K.J.**, Mussnug, J.H., Kruse O. European Patent App. No. **EP2684960A1**.

REVIEWS, OPINIONS, & PERSPECTIVES (9) *corresponding/senior author

- 2024* Goold, H.D., Moseley, J.L., **Lauersen, K.J.** *Cell Genomics*. 100505.
- 2023 Hirt, H., *et al.*, *Trends in Plant Science*. 28(5), 537-543.
- 2023 Santos Correa, S., *et al.*, *Journal of Advanced Research*. 47, 75-92.
- 2022 Rafique, F., *et al.*, *Plants* 11(11), 1467.
- 2021 Wichmann, J., **Lauersen, K.J.**, Kruse, O. *Trends in Biotechnology* 39(4), 323-327.
- 2021 Ahmed, M. *et al.*, *ACS Synthetic Biology* 10(4), 646-669.
- 2020* Lefers, R. M., Tester, M., and **Lauersen, K.J.** *Frontiers in Plant Science* 11, 1–7.
- 2020 Wichmann, J., **Lauersen, K.J.**, Kruse, O. *Current Opinion in Biotechnology* 61, 28–37.
- 2019* **Lauersen, K.J.** *Planta* 249(1), 155-180.

CONFERENCE PRESENTATIONS

- 20251112 Invited Speaker. National Transformation Institute Open House. **KAUST, KSA**.
- 20250616-18 Invited Speaker. International Conference on Algal Biomass, Biofuels and Bioproducts. **Phoenix, USA**.
- 20250327 Invited Speaker. Engineering Biology Research Council Global Forum 3.0. **La Jolla, California**.
- 20250218 Invited Speaker. KAUST Research Conference on Optimizing Energy in the Circular Economy. **KAUST**.
- 20240916-18 Invited Speaker. 13th International CeBiTec Research Conference ICRC2024. **Bielefeld, Germany**.
- 20231123 Invited Speaker. Symposium Sustainable Biotechnology. HHU. **Düsseldorf, Germany**.
- 20231107 Invited Speaker. Aramco: Biotechnology applications towards industrial sustainability. **Dammam, KSA**.
- 20230612-14 Speaker & co-author of talk by S. Overmans. Algal BBB 2023. **Kona Island, Hawaii, USA**.
- 20230607 Speaker by Zoom. [Chlamydomonas Research Conference 2023](#). **Princeton, NJ, USA**.
- 20230519 Speaker by Zoom. SynDiatom 2.0 Meeting. **London, ON, Canada**.
- 20230220 Invited Speaker. KSA Rep. Engineering Biology Research Council 2.0. **Singapore**.
- 20221206 Invited Speaker. Photosynthetic microorganisms for sustainable development. **Online. Rome, Italy**
- 20221205 Invited Speaker. International workshop on algae culture and innovation. **Thuwal, KSA**.
- 20221018 Invited Speaker. Saudi Agricultural Business Forum. **Riyadh, KSA**.
- 20211103-05 3rd Speaker. International *Cyanidioschyzon merolae* conference. **Online**.
- 20210913-15 8th Selected Speaker. International Bielefeld-CeBiTec Research Conference. **Bielefeld, Germany**.
- 20210614-16 Invited Speaker. International Conference on Algal Biomass, Biofuels, & Bioproducts. **Online**.
- 20210117 Invited Lecture by Zoom. Winter Enrichment Program: Connectivity. **KAUST, KSA**.

20200120 Speaker. Computational Bioscience Research Center (CBRC) Digital Health Conference. **KAUST, KSA.**
20191128-30 Invited Speaker. KAUST/NEOM Retreat & Workshop. **Tabuk, KSA.**
20191129 Invited Speaker. Red Sea Research Center (RSRC) Open Science Conference. **KAUST, KSA.**
20191011-12 Invited Speaker. Future trends in synthetic biology. **National University of Singapore (NUS).**
20190204-08 Invited Speaker. Genomics & Systems Biology IX. **New York University Abu Dhabi (NYUAD), UAE.**
20180625-28 Speaker. 1st European Congress on Photosynthesis Research. **Uppsala, Sweden.**
20180205 4th Invited Speaker. *LASSB* Mini-symposium on Systems and Synthetic Biology. **NYUAD, UAE.**
20170924-27 Selected Speaker. 7th International Bielefeld-CeBiTec Research Conference. **Bielefeld, Germany.**
20170618-21 Speaker. 7th International Conference on Algal Biomass, Biofuels and Bioproducts. **Miami, USA.**
20160926-28 Selected Speaker. 6th International Bielefeld-CeBiTec Research Conference. **Bielefeld, Germany.**
20160406-08 Speaker. European Roadmap for an Algae-Based Industry. **Olhão, Portugal.**
20140921-24 Speaker. International CeBiTec Research Conference: Advances in industrial biotechnology: Prospects and challenges for the development of algal biotechnology. **Bielefeld, Germany.**
20130616-19 Speaker. 3rd International Conference on Algal Biomass, Biofuels & Bioproducts. **Toronto, Canada.**
20130421-26 Speaker. 17th International Pushchino School Conference of Young Scientists "Biology – The Science of The XXI Century". *Best lecture at conference prize.* **Pushchino, Russia.**

CONFERENCE POSTERS

20250616-18 Algal Biomass, Biofuels and Bioproducts. Posters [1+2*](#) Best Poster prize. **Phoenix, USA.**
20240916-18 13th International CeBiTec Research Conference ICRC2024. Posters [1+2](#). **Bielefeld, Germany.**
20230611-15 Metabolic Engineering 15. Posters [1, 2, 3, 4, 5*](#) [Biotechnology Notes Poster prize](#). **Singapore.**
20230612-14 Algal Biomass, Biofuels & Bioproducts (AlgalBBB) 2023. Posters [1, 2, 3, 4](#). **Kona Island, Hawaii, USA.**
20230604-08 Chlamydomonas Research Conference 2023. Posters [1, 2, 3](#). **Princeton, NJ, USA.**
20230530-0602 Synthetic Biology: Engineering, Evolution & Design (SEED). Posters [1 & 2](#). **Los Angeles, USA.**
20230227-0301 KAUST Research Open Week. Posters [1, 2, 3](#). **Saudi Arabia.**
20211130 KAUST Research Open Week. Posters [1 & 2](#). **Saudi Arabia.**
20140512-15 9th Canadian Plant Biotechnology Conference. McGill University, **Montreal, Canada.**
20120403-04 9th Center for Industrial Biotechnology Symposium: Molecular Biotechnology. **Bielefeld, Germany.**
20111217-19 7th Center for Industrial Biotechnology (CeBiTec) Symposium: Bio-integrated Organic Synthesis in Industry: Biocatalytic Breakthroughs, Industrial Processes, Emerging Fields. **Bielefeld, Germany.**

SCIENTIFIC EVENT ORGANIZATION AND CONFERENCE SESSION CHAIRING

20240916-18 Conference Co-Chair. [13th International CeBiTec Research Conference \(ICRC\)](#) Prospects & challenges for the development of algal biotechnology. **Bielefeld, Germany.**
20231206 Session Chair. [Green Christmas Session](#), online. **Rome, Italy.**
20230613 Session Chair. Algal BBB Conference. Kona, Hawaii
20160708 PHOTOFUEL Young Researcher's Collaboration Meeting. **Bielefeld, Germany.**
20130311 4th CLIB-GC Student Symposium, Patents in Biotechnology Perspectives from Society and Industry, Bielefeld University Center for Biotechnology (CeBiTec). Chairperson. **Bielefeld, Germany.**

TEACHING

2026-present – Program Chair (Dual): Bioengineering and Bioscience teaching programs
2023-2025 Summer BESE 201 (BioS 294) Scientific Soft Skills Communications Course – **co-instructor.**
2021-2025 Autumn BioE 201/230 Foundations in Bioengineering Lecture + Lab – **course architect / co-instructor.**
2021-2025 Spring BioE 300 KAUST: Microbial Engineering & Bioprocess Design Lecture & Lab – **sole-instructor.**
2021-present – KAUST Track Leader for Synthetic Biology Admissions in the Bioengineering study program.

HOSTED RESEARCH STAYS OF INTERNATIONAL STUDENTS/FACULTY

20250702-1206 Visiting PhD Student Anne Steensma from **Michigan State University, USA.**
20240201-0630 Visiting MS Student Georges Sainte-Rose from **Paris Saclay University, France.**
20230912-1222 Visiting MS Student Mark Pampuch from **Western University, Canada.**
20230912-1222 Visiting MS Student Diedrich Vahrenkamp from **Wageningen University Research, Netherlands.**
20230514-26 Visiting PhD Student Savignien Lepruvost from **Universität Münster, Germany.**

20230120-0620 Visiting PhD Student Takehiro Uyeda from **CINVESTAV-Irapuato, Mexico**.

20220525-0607 Visiting Scholars Prof. Stephen Rader & Dr. Martha Stark from **UNBC, Canada**.

20210710-0830 Visiting BS Student Iona Isachsen from **Arizona State University, USA**.

STUDENT SUPERVISION. *BESE Dean's Award recipients, **BESE Dean's Travel Award Recipient

PhD: Present: Nuran Albarakati, Mark Pampuch, Mauricio Masson. **Graduated:** Dr. M. Villegas** (16.11.2025), Dr. R. Yahya* (26.11.2024), Dr. M. Abdallah* (21.11.2024), Dr. S. Gutiérrez-Zapata* (24.07.2024). Supervised as PostDoc w/ Prof. Dr. Olaf Kruse: Dr. T. Baier (22.07.2018), Dr. J. Wichmann (04.07.2019).

Master's Graduated: Fatimah Abualsaud (05.2023), Amna Abdullah (05.2023), Manar Shbl (04.2022), Salma Alkaff (04.2022), Melany Villegas (07.2021, Liège University, remote), From the group of Prof. Dr. Olaf Kruse: Daniel Basiry (06.2018), Stephan Brinkmann (09.2017), Olga Ganswind (07.2015), Celia Recke (10.2013), Isabel Huber (12.2012)

Bachelor's: Graduated (from the group of Prof. Dr. Olaf Kruse): Annabel Eggert (09.2018), Christina Wiebe (06.2016), Stephan Brinkmann (07.2014), Paulina Pula (09.2016), Isabell Kaluza (01.2013).

THIRD PARTY FUNDING & LOCALLY AWARDED GRANTS

20250831-20260731 KAUST National Transformation Institute (NTI) Program. **Grant #TTO-NTI1-2024-005 Phase 2**

20250101-20271231 Office of Naval Research Global. **Grant #N629092512005**.

20240601-20250831 KAUST National Transformation Institute (NTI) Program. **Grant #TTO-NTI1-2024-005**

20240101-20251231 KAUST Opportunity Fund Program 2023. **Grant #5576**.

20240101-20251231 KAUST Smart Health Initiative. **Grant #6051**.

20231001-20250930 Saudi International Petrochemical Company, **role: Co-PI**, Lead PI: Mani Sarathy. **Grant #5623**.

20220901-20240831 KAUST Circular Carbon Initiative 2022, **role: Co-PI**, Lead PI: Mani Sarathy. **Grant #5213**.

20220401-20240331 KAUST Competitive Research Grants 2021 **Grant #4751**.

20220101-20221231 KAUST Climate and Livability Initiative 2021 **Grant #4913**.

20211101-20221031 KAUST Impact Acceleration Funds 2021 **Grant #4843**.

20210701-20230630 KAUST Circular Carbon Initiative 2021 **Grant #4796**.

20201201-20211130 KAUST Impact Acceleration Funds 2019, **role: Lead PI**, Co-PI Pascal Saikaly. **Grant #4238**.

20210101-20213112 KAUST Impact Acceleration Funds 2019, **role: Co-PI**, Lead PI: Peiyong Hong. **Grant #4224**.

20201201-20210630 KAUST Red Sea Research Center CCF 2020, **role: Lead PI**.

20201201-20230630 KAUST Red Sea Research Center CCF 2020, **role: Co-PI**, Lead PI: Francesca Benzoni.

20180701-20210701 Horizon 2020 grant agreement 722361 "MERIT". Contributing Author. **Germany**.

20180901-20200901 Personnel exchange DAAD co-fund with CAPES Brazil. Contributing Author. **Germany**.

20180801-20200801 BMBF IBÖM-04 (031B0587B). Contributing Author. **Germany**.

INVITED LECTURES, SEMINARS, & RESEARCH STAYS

20251105 Invited course speaker. **Zoom**. EIT Food Algal Biotechnology Course. **Cambridge, UK**.

20241113 Invited course speaker. **Zoom**. EIT Food Algal Biotechnology Course. **Cambridge, UK**.

20240907 Invited speaker. University of Toronto BioZone. **Toronto, Canada**.

20240904 Invited speaker. University of Western Ontario. **London, Ontario, Canada**.

20240307 Invited speaker. SynBYSS Seminar Series with Jing-Ke Weng and Tae Seok Moon. **Online**.

20240120 Invited speaker. Bioengineering student seminar. **KAUST, Saudi Arabia**.

20231128 Invited seminar speaker. Universität Bielefeld. **Bielefeld, Germany**.

20231129 Invited course speaker. **Zoom**. EIT Food Algal Biotechnology Course. **Cambridge, UK**.

20231122 Invited speaker. University of Basque Country. **Bilbao, Spain**.

20231108 Invited speaker. **Zoom** Seminar series, Valley DAO, **CA, USA**.

20230623 Invited seminar speaker. Stazione Zoologica Anton Dohrn. **Naples, Italy**.

20220429 Invited seminar speaker. Queen's University Faculty of Biology. **Kingston, Canada**.

20220425 Invited seminar speaker. University of Northern British Columbia. **Prince George, Canada.**

20220421 Invited seminar speaker. Photosynthesis seminar series. **Berkeley, USA.**

20220418 Invited seminar speaker. J. Craig Venter Institute. **San Diego, USA.**

20220411 Invited speaker. Arizona State University School of Sustainability & the Built Environment. **Phoenix, USA.**

20220524 Invited speaker. **Zoom** Seminar series. CINVESTAV. **Irapuato, Mexico.**

20201212-19 Exhibition booth. Circular Carbon Initiative Launch Event. **KAUST, KSA.**

20201027 Guest lecturer **Zoom**. Red Sea Research Center, Marline Life student seminar. **KAUST, KSA.**

20200716 Guest lecturer **Zoom**. Red Sea Research Center, International student seminar. **KAUST, KSA.**

20200512 Invited speaker. **Zoom** BioSustain student seminar, Technical University of Denmark. **Copenhagen, DK.**

20200113 Invited speaker. Laboratory of algal, synthetic, & systems biology retreat, NYU Abu Dhabi. **UAE.**

20191021 Invited speaker. Macquarie University. **Sydney, Australia.**

20191017 Invited speaker. Institute for Molecular Biosciences, University of Queensland. **Brisbane, Australia.**

20181113 Invited speaker. Le Commissariat à l'énergie atomique et aux énergies alternatives. **Caderache, France.**

20181024-1103 Research stay. Prof. Jose A.V. Costa group. Fed. U. of Rio Grande (FURG), **Rio Grande do Sul, Brazil**

20181009 Invited speaker. Dept. of Biology Seminar. University of York. **UK.**

20170816 Invited speaker. Dept. of Life Sciences, Institute of Botany. University of Liège. **Belgium.**

20170418 Invited speaker. Dept. of Plant & Environmental Sciences, University of Copenhagen, **Copenhagen, DK.**

20170130 Invited speaker. Institute of General Botany, Johannes Gutenberg-Universität. **Mainz, Germany.**

20161011-1110 Research stay. Prof. Ben Hankamer group. IMB University of Queensland, **Brisbane, Australia**

20160307 Invited speaker. Dept. of Life Sciences, Institute of Botany. University of Liège. **Belgium.**

20160115 Invited speaker. Dept. of Biology I, Plant Science, Ludwig Maximillians Universität, **Munich, Germany.**

20141106 Invited speaker. Dept. of Plant Sciences, University of Cambridge. **UK.**

HOSTED GUEST LECTURES – Videos on request where available

20251116 KAUST Seminar. **In person KAUST.** Prof. Dr. Claire Remacle, **Liege Univesity, Belgium.**

20251111 KAUST Seminar. **In person KAUST.** Dr. Vimal Nolla-Ardevol, **Puratos, Belgium.**

20251021 KAUST Seminar. **In person KAUST.** Prof. Dr. Sotirios Kampranis, **U. Copenhagen, Denmark.**

20250319 KAUST BioE 300 Lecture. **Zoom.** Dr. Vimal Nolla-Ardevol, **Puratos, Belgium.**

20250316 KAUST BioE 300 Lecture. **Zoom.** Dr. Ahmed Zahoor, **Givaudan, Switzerland.**

20241120 KAUST BioE Seminar. **In person KAUST.** Prof. Claire Remacle, **Liege Univesity, Belgium.**

20241001 KAUST BioE Seminar. **In person KAUST.** Prof. Ira Levine, **University of Southern Maine, USA.**

20240320 KAUST BioE 300 Lecture. **Zoom.** Dr. Ahmed Zahoor, **Givaudan, Switzerland.**

20240317 KAUST BioE 300 Lecture. **Zoom.** Prof. Gyorgy Szekeley, **KAUST, Saudi Arabia.**

20240313 KAUST BioE 300 Lecture. **Zoom.** Dr. Scott Walper, **Office of Naval Research Global (US), London.**

20240310 KAUST BioE 300 Lecture. **Zoom.** Dr. Anupriya Thind, **British American Tobacco, UK.**

20231107 KAUST BioE Seminar. **Zoom.** Prof. Saul Purton, **University College London.**

20230515 KAUST BESE Distinguished Lecture. **In person KAUST.** Prof. Patrick Cai, **University of Manchester.**

20230316 KAUST BioE Seminar. **In person KAUST.** Prof. Peter Lammers, **Arizona State University.**

20230316 KAUST BioE Seminar. **In person KAUST.** Dr. Jeffrey Moseley, **Berkeley.**

20230308 KAUST BioE Seminar. **Zoom.** Dr. Jan Schwarzans. **Roche, Switzerland.**

20221115 KAUST BioE Seminar. **Zoom.** Prof. Mathieu Pernice. **University of Technology Sydney.**

20221004 KAUST BioE Seminar. **In person KAUST.** Prof. Claudia Vickers. **Queensland University of Technology.**

20220920 KAUST BioE Seminar. **Zoom.** Dr. Jenny Du. **Apeel Science. California.**

20220531 KAUST BioE Seminar. **In person KAUST.** Prof. Stephen Rader. **University of Northern British Columbia.**

20220418 KAUST BioE Seminar. **Zoom.** Prof. Stephen Rader. **University of Northern British Columbia.**

20220314 KAUST BioE 300 Lecture. **Zoom.** Dr. Andrew Spicer. **Algenuity, UK.**

20220315 KAUST BioE 300 Lecture. **Zoom.** Giorgio Todesco, Roberto Lovo. **Marzotto Wool Manufacturing, Italy.**

- 20220308 KAUST BioE 300 Lecture. **Zoom**. Mr. David Lips. **Spiber, Japan**.
- 20210607 KAUST BESE Distinguished Lecture. **Zoom**. Prof. John Glass. **J. Craig Venter Institute, USA**.
- 20210318 KAUST BioE 394 Lecture. **Zoom**. Mr. David Lips. **Spiber, Japan**.
- 20210315 KAUST BioE 394 Lecture. **Zoom**. Dr. Patrick Rose. **Office of Naval Research Global (US), London**.
- 20210311 KAUST BioE 394 Lecture. **Zoom**. Dr. Benjamin Mülller. **Biofidus AG, Germany**.
- 20210308 KAUST BioE 394 Lecture. **Zoom**. Dr. Vimal Nolla-Ardevol. **Puratos, Belgium**.
- 20210302 KAUST BioE Seminar. **Zoom**. Prof. Claudia Vickers. **CSIRO, Queensland University of Technology**.
- 20211117 KAUST BioE Seminar. **Zoom**. Prof. Peter Lindblad. **Uppsala University**.
- 20201020 KAUST BioE Seminar. **Zoom**. Prof. Sarah d'Adamo. **Wageningen University**.
- 20201013 KAUST BESE Distinguished Lecture. **Zoom**. Prof. Matthew Wook Chang. **National U. of Singapore**.
- 20201006 KAUST BioE Seminar. **Zoom**. Prof. Patrik Jones. **Imperial College London**.
- 20200519 KAUST BioE Seminar. **Zoom**. Prof. Kirill Alexandrov. **Queensland University of Technology**.
- 20200107 KAUST Seminar. **In person KAUST**. Dr. Jonas Frohwitter. **MPI Magdeburg**.
- 20200216 KAUST Seminar. **In person KAUST**. Dr. Julian Wichmann. **Universität Bielefeld**.
- 20191203 KAUST Seminar. **In person KAUST**. Dr. Boas Pucker. **Universität Bielefeld**.

NEWS MEDIA – copies available upon request when no link available

- 20251215 "[Algae innovation: Scientists convert chocolate processing waste into valuable blue pigment](#)" **Food Ingredients 1st Online Magazine**. Author Elizabeth Green.
- 20251211 "[Algae and the Chocolate Factory](#)" **KAUST Discovery Online**. Author. James M. Crow.
- 20251202 "[KAUST scientists convert food waste into sustainable ingredients using algae](#)" **Arab News**.
- 20251201 "[Scientists use algae to convert food waste into sustainable ingredients](#)" **KAUST News**. Author: Peter Karagiannis
- 20250323 "[High value harvests from designer algae](#)" **KAUST Discovery**. Author: James M. Crow.
- 20250123 "[The chops for science: Lauersen's journey from karate to biotech innovation at KAUST](#)" **KAUST**. Author: Carter Haydu
- 20241128 "[BESE's Kyle Lauersen Wins 2024 KAUST Distinguished Teaching Award](#)" **KAUST**. Author: Claire Salle
- 20240318 "[Greening the scent of Arabia](#)" **KAUST News**. Author: Robin Taylor
- 20240315 "[Plant Science Research Weekly](#)" **American Society of Plant Biologists**. Author: Mary Williams
- 20240313 "[Saudi scientists produce sustainable oudh, aroma of the Arab world](#)" **The Circuit**. Author: Louise Burke
- 20240310 "[KAUST scientists use synthetic biology and green chemistry to synthesize popular fragrances](#)" **KAUST Press Release**. Author: Peter Karagiannis
- 20240308 "[كاوست تستخدم علم الأحياء التركيبي والكيمياء الخضراء لتحسين صناعة العطور](#)"
- 20240307 "[KAUST finds chemical alternatives for agarwood perfume production](#)" **Arab News**.
- 20240306 "[علوم وتقنيات / "كاوست" تنهي دراسة بحثية علمية في استخدام علم الأحياء التركيبي والكيمياء الخضراء لتحسين صناعة العطور](#)" **Saudi Press Agency**
- 20240306 "["كاوست" تنهي دراسة لاستخدام "الأحياء التركيبية والكيمياء الخضراء" في صناعة العطور](#)" **sabq**.
- 20231213 "[The sweet smell of successful wastewater treatment](#)" **KAUST Insight Magazine**. Author: Robin Taylor.
- 20230818 "[KAUST Produces Tutankhamun Perfume Oil from Algae](#)" **Al Sharq Al Awsat Newspaper**.
- 20230809 "[KAUST Scientist Leads Effort to Harness the Power of Algae for Saudi Arabia](#)" **Leaders Magazine**. Author: Unknown.
- 20230809 "[Where I Work: Razan Yahya: Tiny microalgae offer big potential for a fruitful career](#)" **KAUST Insight Magazine**. Author: James Mitchell Crow.
- 20230709-0816 "Tiny algae have huge potential for Saudi Arabia's bioeconomy"
- 20230709 [Al Sharq Al Awsat Newspaper](#), 20230816 [Al Riyadh Newspaper](#), [Okaz Newspaper](#), [Saudi Gazette](#)

- 20230706 "[Modifying algae to make rare antioxidants in extreme environments](#)" **PharmiWeb.com**. Authors: Amy Thomas & Jasmin Shearan.
- 20230530 "[Algae Biotechnology](#)" **Joyful Microbe Blog**. Author: Dr. Justine Dees.
- 20220725 "[Milking molecules from microbes](#)" **KAUST Discovery Magazine 14**. Research highlight [Magazine pg 48](#).
- 20220614 "[Creating an algal innovation bloom](#)" **KAUST Insight Magazine**. Author: Lara Reid.
- 20220426 "[The future of algae — a treasure trove of green for the Kingdom](#)" **KAUST Features**. Author: Julie West.
- 20211020 "[High-throughput screening of green algae transformants](#)" **Singer Instruments**. Author: Charlotte Cullen.
- 20200816 "[Desert greenhouses offer growth opportunities](#)" **KAUST Discovery Magazine 10**. Author: Lara Reid.
- 20190116 "[Die Uni als >>Inkubator<<](#)" **Westfalen-Blatt** (German language newspaper), Author: Sabine Schulze.
- 20180715 "Overcoming limitations of engineering eukaryotic algae" **Algae Industry Magazine**. Offline.
- 20160901 "[ImpFest](#)" **Imperial College London Festival**, Community engagement with genetically modified microbes, 2016 Microbial Metabolic Engineering group: Dr. Patrik Jones.
- 20121001 "Willkommen in der Zukunft" **H1 Das Magazin der Universität Bielefeld**. Author: Daniel Pirker. **Print**.
- 20110801 "[Queen's grad explores the possibilities of algae.](#)" **Queen's University Alumni Review**. Author: Elamin Abdelmamdouh.
- 20110310 "Kingston man sees big things in algae, Kyle Lauersen heads to Germany." **EMC Newspaper**, Kingston, Canada. Author: Mark Bergin. **Print**.

YOUTUBE/VIDEO MEDIA/OTHER APPEARANCES

Podcasts:

- 20230530 "[Algae in Nature and Biotechnology: Dr. Kyle Lauersen](#)" **Joyful Microbe Podcast**, host Dr. Justine Dees.
- 20230116 "[Genetic engineering of algae – with Kyle Lauersen](#)" **Tiny Living Beings Podcast**, host: Julia van Etten.
- 20220927 "[Algae – a metabolic treasure trove](#)" **Sciencetown Podcast**, host: Julie West.

Lectures:

- 20250130 [Prof. Kyle Lauersen Promotion Colloquium](#). **KAUST. Saudi Arabia**
- 20240307 [SynBYSS Seminar Series with Jing-Ke Weng and Tae Seok Moon](#). **Online**.
- 20231122 [Invited Lecture at University of Basque Country](#). **Bilbao, Spain**.
- 20231108 [Invited Seminar by Zoom](#). **ValleyDAO Science Spotlight, Online**.
- 20220928 [Chlamydomonas: Unlocking discoveries in sustainable biotechnology](#). **SpringerNature Webinar**.
- 20210117 [Invited lecture. KAUST Winter Enrichment Program: Connectivity](#). **KAUST. Saudi Arabia**.

Other:

- 20221024 [KAUST Faculty in Focus Interview](#). **Saudi Arabia**.
- 20211128 [KAUST Research Open Week Interview](#). Segment from 6:51:00-6:56:10. **Saudi Arabia**.
- 20210825 KAUST Virtual Academy Sci Café Guest. **Saudi Arabia**.
- 20210630 KAUST Saudi Research & Science Institute Sci Café Guest. **Saudi Arabia**.
- 20210615 KAUST Saudi Research & Science Institute Sci Café Guest. **Saudi Arabia**.
- 20210407 KAUST Saudi Program for Emerging Leaders Sci Café Guest. **Zoom. Saudi Arabia**.
- 20201202 [KAUST Circular Carbon Initiative Launch Event Interview](#). Segment from 2:10:00-2:14:00. **Saudi Arabia**.
- 20200219 [KAUST Sci Café, Circular Carbon Economy Panelist](#). **Saudi Arabia**.