



# bioCEED Annual Report 2023

## Impact summary



## bioCEED Annual Report 2023 (Impact summary)

The bioCEED Annual Report 2023 – Impact summary was made as an appendix to the bioCEED End Report.

Outreach output for previous years can be found at [bioCEED.no](http://bioCEED.no) and [cristin.no](http://cristin.no) (project 468879).

Many of these activities are further described in our [Newsletter bioCEEDnews](#).

The bioCEED community and beyond – seminars, workshops, courses

Table 1 bioCEED seminars and bioCEED Professional development activities 2023- 24

bioCEED Professional development activities 2023-2024			
Topic	Speaker(s)/Facilitator(s)	What	When and where
BioBERG, research group meeting	Facilitated by Sehoya Cotner	Meetings	Bi-weekly through the year, BIO/online
Collegial Teaching and Learning in STEM (MNPED660)	Roy Andersson, Sehoya Cotner, and Oddfrid Førland	Course (5 ECTS)	2023 – 2024 UiB
TA course, Course for Teaching assistants/PhDs BIO ad Chemistry	Sehoya Cotner and Lucas Jenø	Course (2 days)	9-10 Jan 2023
TA course, Course for Teaching assistants/PhDs, open to Mat.Nat	Sehoya Cotner and Lucas Jenø	Course (2 days)	14-15 Aug 2023
Teaching with Large Language Models workshop	Ståle Ellingsen, Anne Bjune, Sehoya Cotner and David Grellscheid	Workshop	22 Aug 2023
Teaching with Large Language Models workshop 2	Ståle Ellingsen, Anne Bjune and Sehoya Cotner	Workshop	18 Oct 2023, UNIS
Learning Forum UNIS	Tina Dahl and Stephen Coulson – see list below for talks	Learning Forum	21-23 Nov 2023, UNIS
BIO Teachers Retreat	Sehoya Cotner, Robert Kordts, Anne Bjune, Kristin Holtermann	Teachers Retreat	30 Nov – 1 Dec 2023, Voss
100-klubb/redesign BSC biologi – curriculum map workshop	Kristin Holtermann, Christian Strømme, Sehoya Cotner	Workshop	22 Feb 2023
Communicating a Growth Mindset to Support Stigmatized Students in STEM Fields	Assistant Professor Elizabeth A. Canning, Washington State University	bioCEED seminar	13 Mar 2023, UiB
Using Computational Essays to Support Student Creativity and Agency in Science	Associate Professor Tor Ole Odden, UiO	bioCEED seminar	13 Mar 2023, UiB
How can we help our colleagues in STEM use active learning	Anja Møgelvang	Trial lecture	14 Mar 2023, UiB

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Study motivation and turnover intentions: Implications for students and universities, trial lecture PhD	Marius Ole Hohansen	Trial lecture	17 Apr 2023
Motivation and organizational behavior	Professor Halgeir Halvari, University of South-Eastern Norway	bioCEED seminar	18 Apr 2023
Studying the role of basic psychological needs and which needs matter for well-being	Professor Lennia Matos Fernandez, Pontifical Catholic University of Peru	bioCEED seminar	18 Apr 2023
Workshop – Intended learning outcomes for 100 level biology courses (100 level teachers)	Christian Strømme	workshop	25 May 2023, BIO
Digital Teachers' Meeting @ BIO - Oppsummeringer fra redesign-prosjektet/ Results from the redesign-project at BIO	Cecilie Boge, Ståle Ellingsen, Anne Bjune, Pernille Nerile, Sile Maria Midthjell Høydal, Christian Strømme, Kristin Holtermann, Sehoya Cotner	Digital Teachers' Meeting	2 Nov 2023, BIO/online
Digital Teacher's Meeting @ BIO: Student produced films to be used in laboratory teaching	Kirsten Krause, Department of Arctic and Marine Biology, UiT The Arctic University of Norway	Digital Teachers' Meeting	19 Okt 2023 BIO/online
Teaching with ChatGPT	Sehoya Cotner	bioCEED seminar	14 Apr 2023, UNIS
Should we involve students in our 'real' research?	Vigdis Vandvik	bioCEED seminar	28 Apr 2023, UNIS
Digital Teacher's Meeting @ BIO – Activity BINGO to increase student learning, an example from the BIO325 cruise	Taraneh Westerbergerling and Francesco Saltalamacchia, BIO	Facilitated by A.Bjune and K.Holtermann	15 Feb 2024

Table 2 bioCEED student meetings and seminars 2023-24

bioCEED Student meetings & seminars 2023-2024		
Topic	Who	When and where
bioHIVE	Student partners at bioCEED	Bi-weekly through the year, BIO
biOrakel	Oracles	Every Wednesday, BIO
UNISoracle	MSc students at AB	Run 16 times x 2 hours fall 2023, AB, UNIS
UNISbreakfast	PhD students and student representatives	6 Mar 2023, UNIS
bioCEED seminar for students: Work relevance	Facilitated by student representatives	31 Mar 2023, UNIS
UNISbreakfast	PhD students and student representatives	24 Apr 2023, UNIS
Student Poster Symposium at BIO, Spring 2023 (7 courses)	BIO teachers, BIO students, 7 BIO courses, Guest course: GEO338, J. Soule, K. Holtermann, (46 posters and <120 students)	16 May 2023, UIB
Student seminar – future careers for biologists	Facilitated by Gina Koulibaly Barry and Silje Maria Midthjell Høydal	10 Oct 2023, MatNat, Bergen
Conference: SCOPE- student led conference on Polar Environment	Facilitated and run by Merle Alice Scheiner and Lea Anna Berta Kneissle (102 participating students).	13 - 14 Oct 2023, UNIS
UNISbreakfast	PhD students and student representatives	19 Oct 2023, UNIS
Seminar: Motivasjon under eksamensperioden	Speaker: Lucas M. Jenø, facilitator Hanif Kawousi and Gina Koulibaly Barry	16 Nov 2023, BIO
Workshop Learning Forum students: Cooperative Learning and the Jigsaw Classroom	Anja Møgelvang	20 Nov 2023, UNIS
Workshop Learning Forum students: Opportunities and risks in Large Language Models in Higher Education	Ståle Ellingsen and Anne Bjune	22 Nov 2023, UNIS
UNISbreakfast	PhD students and student representatives	20 Nov 2023, UNIS
Student seminar: Hva er bærekraftig mat fra havet?	Gabrielle Ljungström, Facilitated by Gina Koulibaly Barry	28 Sep 2023, BIO

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Student Poster Symposium at BIO, Fall 2023 (5 courses)	BIO teachers, BIO students Jonathan Soule, Kristin Holtermann 5 BIO courses (54 posters and 155 students)	28 Nov 2022, Vil Vite, Bergen
UNISbreakfast	PhD students and student representatives	04 Dec 2023, UNIS

bioCEED reaching out - conferences, events, meetings and seminars

Table 3 Presentations at scientific conferences (peer reviewed) 2023-2024

Presentations at scientific conference (peer reviewed) 2023-2024				
Title	Occasion	Contribution	Authors	When and where
<a href="#">What challenges do students face in introductory STEM courses, and how can instructors help?</a>	MNT Conference	Conference paper	S.S. Bolland, E.C. Rønning, T.T. Try, S.H. Cotner, K.B. Daae and M.S. Glessmer	March 16-17, 2023, Stavanger
<a href="#">Omlegging fra tradisjonelle forelesninger til studentaktiv læring – eksempel fra et grunnemne i biologi.</a>	MNT Conference	Conference paper	A. E. Bjune, G. Bratbak, S. Eliassen, B. A. Hatteland, K. Holtermann, M. Rigstad Langvad, R.A. Sandaa, T. Stokka and A.C. Øvergård	March 16-17, 2023, Stavanger
<a href="#">Understanding student Sense of Belonging in introductory STEM courses.</a>	MNT Conference	Conference paper	R. Costello, S. Hammarlund, E. Christensen, K. Kiani, M. Glessmer, and S. Cotner	March 16-17, 2023, Stavanger
<a href="#">Certification of practical skills engages students and promotes learning</a>	MNT Conference	Presentation	S. Lang, T. Dahl and P. B. Eidesen	March 16-17, 2023, Stavanger
<a href="#">Surveying constructive alignment using CALEQ – exploratory factor analysis.</a>	MNT Conference	Conference paper	C.B. Strømme, H. Barron, and J. Nyléhn	March 16-17, 2023, Stavanger
<a href="#">Core Themes in Critical Thinking: Perspectives from Students and Teachers.</a>	MNT Conference	Conference paper	J. Nyléhn, C. Boge, and J. Soulé	March 16-17, 2023, Stavanger
<a href="#">Creating better work placements by understanding mentor challenges</a>	MNT Conference	Conference paper	K. Holtermann and S. Cotner	March 16-17, 2023, Stavanger
<a href="#">Tools and practices for structured and documented student reflective thinking as</a>	MNT Conference	Poster	K. Kalia	March 16-17, 2023, Stavanger

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<a href="#">a way to promote learning, enable better evaluation of learning activities and validate the achievement of intended learning outcomes.</a>				
<a href="#">STEM Teachers and Heads of Education as partners in change of Teaching and Learning.</a>	MNT Conference	Poster	O. Førland, K. Holtermann, A. Bjune and S. Eliassen	March 16-17, 2023, Stavanger
<a href="#">Supporting Educational Change through Change Teams,</a>	MNT Conference	Poster	R. Andersson, T. Roxå, A. Ahlberg and S. Cotner	March 16-17, 2023, Stavanger
Is our Education Authentic?	MNT Conference	Keynote	S. Cotner	March 16-17, 2023, Stavanger
Supporting Educational Change Teams through SoTL	ISSOTL Conference	Poster	R. Andersson, S. Cotner, and T. Roxå	November 8-11, 2023, Utrecht
Core Themes in Critical Thinking: Perspectives from Students and Teachers	ISSOTL Conference	Presentation	J. Nyléhn, C. Boge, and J. Soulé	November 8-11, 2023, Utrecht
Redesign model meets reality – Reflections on change approaches applied when a structured model for change meets reality,	ISSOTL Conference	Poster	Holtermann, Kristin, Cecilie Boge, Christian Strømme and Sehoja Cotner	November 8-11, 2023, Utrecht
Student participation in curriculum redesign – are their voices heard?	ISSOTL Conference	Presentation	Førland, Oddfrid and Kristin Holtermann	November 8-11, 2023, Utrecht
Student posters and assessment that outlives the course	ISSOTL Conference	Poster	Soule, Jonathan, Kristin Holtermann and Cotner, Sehoja	November 8-11, 2023, Utrecht
Redesigning a BSc programme in biology – a collaborative systems approach to curriculum development	ISSOTL Conference	Poster	Strømme, Christian, Kristin Holtermann, Cecilie Boge, Ståle Ellingsen and Sehoja Cotner	November 8-11, 2023, Utrecht

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Bridging the Gap – a Study on Equity in STEM and the Impact of Test Anxiety Interventions	ISSOTL Conference	Poster	Ruben S. Thormodsæter	November 8-11, 2023, Utrecht
Contextualizing a psychosocial intervention in a Norwegian introductory-STEM course"	ISSOTL2023 Conference	Presentation	Conter, Sehoya and Bolland, Sondre	November 8-11, 2023, Utrecht
How do new Large Language Models like "chatGPT" impact teaching and learning?	ISSOTL2023	Presentation	Bjune, Anne, Cotner, Sehoya, Grellscheid, David, and Ståle Ellingsen	November 8-11, 2023, Utrecht
Bounded rationality in wide educational development and the need for a scholarship.	ISSOTL2023	Presentation	Roxå, T. & Førland, O.	November 8-11, 2023, Utrecht
Cross disciplinary digital toolbox for teaching, learning and research activities in the Arctic	Svalbard Science Conference	Poster	Simen Salomonsen Hjelle, Tina Dahl, Peter Betlem, Rafael Kenji Horota, Kim Senger and Marius Jonassen	Oct. 31, 2023
The way forward: teaching and learning traits in a FAIR Open Science world.	Ecological Society of America	Talk	Vandvik V, Enquist BJ, Halbritter AH, Maitner BS, Michaletz ST, Telford RJ.	Portland, USA, August 9 <sup>th</sup> .
Poster Sessions as constructive alignment in BIO courses	UiB Læringskonferansen 2023	Poster	Soule, Jonathan and Kristin Holtermann	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Meaningful involmnet of students in eductional development.	UiB Læringskonferansen 2023	Workshop	Nerlie, P. & Førland, O.	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Core Themes in Critical Thinking: Perspectives from Students and Teachers	UiB Læringskonferansen 2023	Poster	J. Nyléhn, C. Boge, and J. Soulé	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Digital samarbeidslæring i høyere biologiutdanning	UiB Læringskonferansen 2023	Poster	Anja Møgelvang	UiB Studentsenteret, April 25 <sup>th</sup> 2023



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Open Undergraduate Research Systems (OURS) – Integrating learning and research in an Open Science framework for students	UiB Læringskonferansen 2023	Poster	Christian Strømme	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Understanding Student Sense of Belonging in Introductory STEM Courses	UiB Læringskonferansen 2023	Presentation	Sehoya Cotner	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Studentpartnerskap – erfaringer fra en SFU	UiB Læringskonferansen 2023	Workshop	Pernille Eyde Nerlie & Oddfrid Førland	UiB Studentsenteret, April 25 <sup>th</sup> 2023
Academic teachers` attitudes to the Pedagogical Academy at The Faculty of Mathematics and Natural Sciences, University of Bergen, Norway	LTH:s 12:e Pedagogiska Inspirationskonferens	Talk and conference paper	Førland, O.	LTH, Lund, Sweden 7 <sup>th</sup> Dec 2023

Table 4 Presentations at seminars, workshops, conferences, etc 2023-24

Presentations at seminars, workshops, conferences, etc. 2023-2024				
Title	Occasion	Contribution	Speaker	When and where
Workshop Teaching SDGs and ocean science in higher education	Ocean science in higher education	Presentation	Sehoya Cotner	Jan. 2023 Cape Town, South Africa
Workshop: Research-integrated learning and assessment	MatNat Teachers Retreat 2023	Workshop	Fiksen, Øyvind; Soule, Jonathan; Holtermann, Kristin	29. Mars 2023, UiB/Uphiets hus
BioCEED Centre for Excellence in Biology Education	NHH Teaching Day	Presentation	Sehoya Cotner	12 May 2023, NHH Bergen
Escape boxes for learning	Passion for Ocean festival	Stand	Ruben Thormodsæter	3 Jun. 2023, Bergen
DEVELOP presentation	Workshop with SAMPRAKSIS/ Fiskerihøgskolen	Presentation	Sehoya Cotner	25. Sept 2023, Bergen
BIO298 presentation	Workshop with SAMPRAKSIS/ Fiskerihøgskolen	Presentation	Gaute Velle	25. Sept 2023, Bergen
Eduactional change leaders and bounded rationality	Teled seminar	Presentation	Torgny Roxå, Oddfrid Førland	28. Sept 2023, UiB/online
Escape boxes	Open school day UNIS – 250 school children	Stands	Tina Dahl, Simone Lang, Sine Sara	28 Sept. 2023, UNIS
Escape boxes	Open day for Longyearbyen UNIS 750-800 participants	Stands	Tina Dahl, Simone Lang, Sine Sara	30 Sept. 2023, UNIS
Creating 360 Virtual Field guides to improve field learning	Svalbox data days	Poster presentation	Simone Lang, Simen Salomonsen Hjelle, Tina Dahl and Pernille Bronken Eidesen	19. Oct. 2023, UNIS
Hvordan bruke studentevalueringer av undervisning?	Kompetanseutvikling for erfarne studiekonsulenter, modul 5 - Kvalitet i utdanningen (KUSK 5)	Talk	Kristin Holtermann	20. Oct 2023, UiB

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Evidence-based teaching strategies to make our courses more inclusive”	UNIS Learning Forum	Keynote	Sehoya Cotner	21-23 Nov. 2023, UNIS
Designed for Inclusion: Strategies for Facilitating Belonging in Field Courses	UNIS Learning Forum	Workshop	Sehoya Cotner and Marie van der Kloet	21-23 Nov. 2023, UNIS
Cooperative Learning and Jigsaw Structures in STEM	UNIS Learning Forum	Workshop	Anja Møgelvang	21-23 Nov. 2023, UNIS
Use of Instructional Videos as a Learning Too	UNIS Learning Forum	Workshop	Lisa Baddeley, Simone Lang and Simen Hjelle	21-23 Nov. 2023, UNIS
Elvesletta Student Learning Area – how can it support students learning?	UNIS Learning Forum	Poster	Tina Dahl, Stephen Coulson, Sehoya Cotner and Ivar Nordmo	21-23 Nov. 2023, UNIS
What happens when you transform a large introductory biology course?	UNIS Learning Forum	Poster	Anne E. Bjune	21-23 Nov. 2023, UNIS
bioCEED student activities	UNIS Learning Forum	Poster	Lea B. Kneissle, Merle A. Scheiner, Fredrik Selmer, Sarah A. Frericks and Sil Schuurin	21-23 Nov. 2023, UNIS
Redesign Model Meets Reality: Reflections on change approaches applied when a structured model for change meets reality”	UNIS Learning Forum	Poster	Kristin Holtermann, Cesilie Boge, Christian B. Strømme and Sehoya Cotner	21-23 Nov. 2023, UNIS
Student posters: Scientific products and assessment that outlives the course	UNIS Learning Forum	Poster	Jonathan Soulé, Kristin Holtermann and Sehoya Cotner	21-23 Nov. 2023, UNIS
How to grow a positive teaching culture through collegiality and SoTL	NIKT Conference	Keynote	Roy Andersson	28 Nov. 2023
Creating better work placements by understanding mentor challenges	BIO Teachers Retreat	Talk	Kristin Holtermann, Jonathan Soulé	21. Nov, Voss

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The use of Large Language Models like chatGPT in our teaching	UiB Studiekvalitetsseminar 2023	Presentation	Sehoya Cotner	8. Dec, Bergen/UiB
Ett år med chatGPT – hva nå	UiB Studiekvalitetsseminar 2023	Panledebatt	Sehoya Cotner, Pinar Heggernes, Benedicte Mosby Irgens, Alexander Sæbøe Svendsen	8. Dec, Bergen/UiB
Studentaktiv forskning og overførbare ferdigheter i redesign av biologiutdanningen - Program for studentaktiv læring 2019-2022(2023)	Prosjektsamling for studentaktiv læring, UiB Læringslab	Invited talk	Kristin Holtermann	Dec. 12 <sup>th</sup> UiB Læringslabben, Bergen
Inferring constructive alignment in teaching and learning using student survey data	Project workshop	Invited talk	Christian B. Strømme	Monday Dec. 11 <sup>th</sup> , Department of Education, UiB
Academic teachers` attitudes to the Pedagogical Academy at The Faculty of Mathematics and Natural Sciences, University of Bergen, Norway.	LTH and Luleå university site visit, LTH.	Invited talk	Oddfrid Førland	8 Feb. 2024, LTH, Lund, Sweden
The BSc Biology at UiB – and what can we expect from the new MSc students?	UiB Fisheries and Marine Biology Educations Revision Workshop with invited guests from industry and international collaborators, organized by Prima Learning project and BIO	Invited talk	Kristin Holtermann	13-14 Feb 2024, Bekkjarvik
Redesign av studieprogram – erfaringer fra prosjektet Studentaktiv forskning i redesign av BSc biologi	Studieseksjonen ved det Matematisk Naturvitenskapelige Fakultet,	Invited talk	Kristin Holtermann	UiB, 21 feb 2024
Fagmiljø og student	NOKUT konferansen 2024	Key note	Sehoya Cotner and Pernille Eyde Nerlie	Oslo, 8. Feb 2024

#### bioCEED publications 2023-24

- Eidesen, P. B., Førland, O., Håkansson, L. M., Christiansen, H. H., Dahl, T., & Strømseng, E. (2023). How formal initiatives to improve teaching can lead to more significant informal conversations and increased sharing practice. *Nordic Journal of STEM Education*, 7(1), 84–97. DOI: [10.5324/njsteme.v7i1.4951](https://doi.org/10.5324/njsteme.v7i1.4951)
- Eidesen, P. B., Bjune, A. E., & Lang, S. I. (2023). “Show me how to use a microscope” – The development and evaluation of certification as direct assessment of practical lab skills. *Ecology and Evolution*, 13, e10592. DOI: [10.1002/ece3.10592](https://doi.org/10.1002/ece3.10592)
- Førland, O. & Roxå, T. (2023) Establishing reward systems for excellence in teaching – the experience of academics pioneering a reward system, *European Journal of Higher Education*, DOI: [10.1080/21568235.2023.2214713](https://doi.org/10.1080/21568235.2023.2214713)
- Johansen M. O, Eliassen S & Jenø L.M. (2023). The bright and dark side of autonomy: How autonomy support and thwarting relate to student motivation and academic functioning. *Front. Educ.* 8:1153647 DOI:[10.3389/educ.2023.1153647](https://doi.org/10.3389/educ.2023.1153647)
- Johansen, M. O., Eliassen, S., & Jenø, L. M. (2023) “Why is this relevant for me?”: Increasing content relevance enhances student motivation and vitality. *Frontiers in Psychology* 14:1184804. DOI:[10.3389/fpsyg.2023.1184804](https://doi.org/10.3389/fpsyg.2023.1184804)
- Johansen, M. O., Eliassen, S., & Jenø, L. M. (2023). Autonomy need satisfaction and frustration during a learning session affect perceived value, interest, and vitality among higher education students. *In review - Scandinavian Journal of Educational Research*.
- Møgelvang, A., Vandvik, V., Ellingsen, S., Strømme, C. B., & Cotner, S. (2023). Cooperative learning goes online: Teaching and learning intervention in a digital environment impacts psychosocial outcomes in biology students. *International Journal of Educational Research*, 117, 102114. DOI: [10.1016/j.ijer.2022.102114](https://doi.org/10.1016/j.ijer.2022.102114)
- Møgelvang, A., & Nyléhn, J. (2023). Interdependence between Perceived Cooperative Learning, Sense of Belonging, and Generic Skills in Undergraduate STEM Education. *Nordic Journal of STEM Education*, 7(4) DOI: [10.5324/njsteme.v7i1.4949](https://doi.org/10.5324/njsteme.v7i1.4949)
- Gya R, Birkeli K, Dahle JJ, Foote CG, Geange SR, Lynn JS, Töpfer JP, Vandvik V, Zernichow C, & Jenkins GB 2023. Registered Reports: A new chapter at *Ecology & Evolution* 13: e10023 (4 pp). <https://doi.org/10.1002/ece3.10023>
- Jenø LM, Nyléhn J, Hole TN, Raaheim A, Velle G, & Vandvik V. 2023. Motivational determinants of students’ academic functioning: the role of autonomy-support, autonomous motivation, and perceived competence. *Scandinavian Journal of Educational Research* 67(2): 194–211. <https://doi.org/10.1080/00313831.2021.1990125>
- #### Conference papers
- Bolland, S.S., E.C. Rønning, T.T. Try, S.H. Cotner, K.B. Daae and M.S. Glessmer (2023): [What challenges do students face in introductory STEM courses, and how can instructors help?](#), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023. Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Bolland.pdf>
- Bjune, Anne E., Gunnar Bratbak, Sigrunn Eliassen, Bjørn Arild Hatteland, Kristin Holtermann, Maria Rigstad Langvad, Ruth-Anne Sandaa, Tone Stokka and Aina-Cathrine Øvergård (2023): [Omlegging fra tradisjonelle forelesninger til studentaktiv læring – eksempel fra et grunnemne i biologi](#), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023. Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Bjune.pdf>

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Costello, Robin, Hammarlund, Sarah, Christensen, Emily, Kiani, Kate, Glessmer, Mirjam and Cotner, Sehoya (2023): [Understanding student Sense of Belonging in introductory STEM courses](https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Costello.pdf), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023, Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Costello.pdf>

Førland, O. (2023, Dec 7). Academic teachers` attitudes to the Pedagogical Academy at The Faculty of Mathematics and Natural Sciences, University of Bergen, Norway. LTH:s 12:e Pedagogiska Inspirationskonferens, Lund, Sweden. [https://www.lth.se/fileadmin/cee/genombrottet/konferens2023/F3\\_Foerland.pdf](https://www.lth.se/fileadmin/cee/genombrottet/konferens2023/F3_Foerland.pdf)

Holtermann, K and S. Cotner (2023): [Creating better work placements by understanding mentor challenges](https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Holtermann.pdf), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023. Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Holtermann.pdf>

Nyléhn, J, C. Boge, and J. Soulé (2023): [Core Themes in Critical Thinking: Perspectives from Students and Teachers](https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Nyl%C3%A9hn.pdf), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023. Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Nyl%C3%A9hn.pdf>

Strømme, CH, H. Barron, and J. Nyléhn (2023): [Surveying constructive alignment using CALEQ – exploratory factor analysis](https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Str%C3%B8mme.pdf), conference paper, MNT konferansen 2023, Stavanger, 16-17 mars 2023, Conference paper: <https://bioceed.uib.no/dropfolder/bioCEED/MNT2023-Str%C3%B8mme.pdf>

### Poster Presentations

A selection of bioCEED posters can be found here: <https://bioceed.w.uib.no/posters/>

### PhD dissertation

Anja Møgelvang, [Cooperative Learning in Undergraduate STEM Education: Applications and Outcomes](#), March 14<sup>th</sup>, 2023

Marius Ole Johansen, [Effects of autonomy and control on student motivation and functioning in higher education](#), April 7<sup>th</sup>, 2023

### Master theses

Marte Røssland Henriksen og Maria Kjeilen Steinseide juni 2023, *Forståelse av naturlig seleksjon - En kvantitativ undersøkelse av elevs og studenters misoppfatninger knyttet til naturlig seleksjon ved bruk av Diagnostisk Test av Naturlig Seleksjon*. Hovedveileder: Jorun Nyléhn, biveileder: Ragnhild Gya. 30 studiepoeng. <https://bora.uib.no/bora-xmlui/handle/11250/3072392>

Åse Kristoffersen juni 2023, *Samanhengar mellom studentars vurderingspreferansar og motivasjon. Ein kvalitativ studie av biologistudentar sin preferanse for vurdering knytt til motivasjon*. Hovedveileder: Sehoya Cotner, biveileder: Jorun Nyléhn. 30 studiepoeng.

Shinujah Roman Sinnathurai juni 2023, *Vurderingspreferanser hos studenter i høyere utdanning*. Hovedveileder: Sehoya Cotner, biveileder: Jorun Nyléhn. 30 studiepoeng. <https://bora.uib.no/bora-xmlui/handle/11250/3071448>

### Op -eds 2023 -24

- Oddfrid Førland, Sigrunn Eliassen og Harald Walderhaug, In Khrono: Merittering av undervisning — et viktig tiltak i stadig utvikling, Khrono, December 2023 <https://www.khrono.no/merittering-av-undervisning-et-viktig-tiltak-i-stadig-utvikling/836497>
- Ståle Ellingsen, Anne Bjune and Sehoya Cotner: In Sciencenorway.no: Let's not vilify our students over chatGPT, Sciencenorway.no 28 April 2023 <https://www.sciencenorway.no/artificial-intelligence-chatgpt-education/lets-not-vilify-our-students-over-chatgpt/2190432>

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- [Vigdis Vandvik: In Khrono: Frykter at Sentre for fremragende utdanning står på kuttlista til Sandra Borch, Khrono, 22 September 2023](https://www.khrono.no/frykter-at-sentre-for-fremragende-utdanning-star-pa-kuttlista-til-sandra-borch/811728) <https://www.khrono.no/frykter-at-sentre-for-fremragende-utdanning-star-pa-kuttlista-til-sandra-borch/811728>
- [Jostein Bakke, Malcolm Langford, Elin Børrud, Sehoya Cotner, Eivind Engebretsen, Doris Jorde, Birgit Rognebakke Krogstie, Thomas Gjesteland, Anders Malthé-Sørenssen, Salman Nazir, Daniel Nordgård, Ellen Stabell and Øystein Widding: In Khrono: Fremtidens høyere utdanning trenger en oppgradering – ikke budsjettkutt, Khrono 9 October 2023](https://www.khrono.no/fremtidens-hoyere-utdanning-trenger-en-oppgradering-ikke-budsjettkutt/) <https://www.khrono.no/fremtidens-hoyere-utdanning-trenger-en-oppgradering-ikke-budsjettkutt/816292>

### Podcasts:

- Ruben Thormodsæther & Oddfrid Førland (2024, January). [#60 Den om studenter som partnere – før og nå](#). Nokutpodden.
- P. Bronken Eidesen (2023, February). [FieldPass](#). The ColdCast, UNIS.
- M. Jensen and S.J. Coulson (2023, June). [I Earth and bioCEED](#). The ColdCast, UNIS.

### bioCEED online and in the media

See also our [web archive](#) for press.

- **Monthly bioCEED Newsletter:** <http://bioceednews.w.uib.no/>
- **bioCEED Web pages:** <http://bioceed.w.uib.no/>
- **bioCEED Web page UNIS:** <https://research.unis.no/bioceed/>
- **Twitter:** @sfubioceed @VVandvik @OysteinVarpe @lucas\_jeno @Frueidesen @bioCEED\_JS @oddfriidforland @sehoyacotner @laffustotalus @Ruben\_ST
- **Facebook:** <https://www.facebook.com/bioceed/>
- **Facebook UNIS:** <https://www.facebook.com/bioceedUNIS>
- **Instagram:** sfubioceed
- Monthly updates from DEVLEOP project on DEVELOP webpages: <https://dvlp.w.uib.no/>

### bioCEED platforms

- **BioCEED tool kits:** <https://bioceed.w.uib.no/resources/toolkits/>
- **bioCEED newsletter:** <https://bioceednews.w.uib.no/>
- **BiKUBEN:** <https://bikuben.w.uib.no/nb/>
- **bioST@TS:** <https://biostats.w.uib.no/>
- **bioPRACTICE student blogs:** <https://biopraksis.w.uib.no>
- **bioPITCH:** <https://biopitch.w.uib.no/>
- **BioWRITE:** <https://biowrite.w.uib.no/>
- **BioSKRIV:** <https://bioskriv.w.uib.no/>
- **Learning Arctic biology:** <https://www.learningarcticbiology.info/>
- **Virtual field guides, Svalbard:** <https://360.learningarcticbiology.info/>
- **Virtual field guides, Svalbard & Bergen:** <https://bioceed.w.uib.no/virtual-field-guides/>
- **FieldPass:** <https://research.unis.no/fieldpass/>
- **Bjørndalen Integrated Gradient (BIG):** <https://www.unis.no/project/big/>
- **Internship students blogs from the AB-208 course:** <https://blog.learningarcticbiology.info/>
- **Teach2Learn:** <https://teach2learn.w.uib.no/>
- **ArtsAPP:** <https://artsapp.uib.no/> and **Identify arctic plants with your phone:** <https://www.youtube.com/watch?v=i1IPoDaZrvo>
- **Larvae Knowledge Incubator:** <https://lki.w.uib.no/>, project leader Ivar Rønnestad.
- **CodeRclub:** <https://coderclub.w.uib.no/>
- **Biorakel:** <https://biorakel.w.uib.no/>

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- Biospire: <https://biospire.w.uib.no/>
- UNISprout: <https://unisprout.w.uib.no/>
- UNISbreakfast: <https://unisbreakfast.w.uib.no/>
- DEVELOP: <https://dvlp.w.uib.no/>
- Information page for students: <https://bioceed.w.uib.no/resources/explore-bioceed/#norsk>
- Praksisveileder: <https://praksisveileder.no/>

### Awards

Awards 2023		
Who	Title	From
Vigdis Vandvik	Excellent Teaching Practitioner	MN Faculty UiB
Sehoya Cotner	Excellent Teaching Practitioner	MN Faculty UiB
Anne Bjune	Excellent Teaching Practitioner	MN Faculty UiB
Jorun Nyhlén	Excellent Teaching Practitioner	MN Faculty UiB



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bioCEED Personnel 2023-24

Name	Function in bioCEED, position	Unit
Sehoya Cotner	Centre director, professor	BIO, UiB
Stephen Coulson	Deputy Centre director, professor	AB, UNIS
Oddfrid Førland	Centre coordinator, PhD student	BIO, UiB
Jonathan Soulé	Senior engineer	BIO, UiB
Tina Dahl	Advisor, adm. and tech support	AB, UNIS
Sine Sara Egrin Astad	Staff member, adm support	AB, UNIS
Kristin Holtermann	Project coordinator, administration	BIO, UiB
Roy Andersson	Associate professor II, academic developer	bioCEED
Lucas Jenø	Associate professor	PED,UiB
Gro van der Meeren	Core team member, senior scientist	IMR
Vigdis Vandvik	Core team member, professor, PI	BIO,UiB
Marius Ole Johansen	PhD candidate	bioCEED
Anja Møgelvang Jacobsen	PhD candidate	bioCEED
Christian Bianchi Strømme	Post doc	bioCEED
Simone Lang	Core team member, associate professor	AB, UNIS
Pernille Bronken Eidesen	PI, Associate professor II	AB, UNIS
Gaute Velle	PI, researcher, Prof II	Norce /BIO, UiB
Jorun Nyléhn	Core team member, associate professor	BIO, UiB
Ragnhild Gya	Project leader bioSPIRE, researcher	BIO,UiB
Kseniia Kalian	Post doc	AB, UNIS
Simen Hjelle	Technician	AB, UNIS
<b>Student partners:</b>		
Sarah Frericks	Student representative	AB, UNIS
Fredrik Selmer	Teaching assistant UNISoracle	AB, UNIS
Johanne Frisholm	Student representative	AB, UNIS
Line Framnes Voldmo	Student representative	AB, UNIS
Solvår Tørres Berntsen	student representative	AB, UNIS
Pernille Eyde Nerlie	Student representative /bioBEE	BIO,UiB and AB, UNIS
Jørund Johansen	Student research assistants (bioBEE)	BIO, UiB
Tonje Totland	Student research assistants (bioBEE)	BIO, UiB

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Lars Martin Myhre	Student research assistants (bioBEE)	BIO, UiB
Ruben Schelbred Thormodsæter	Student research assistants (bioBEE)	BIO. UiB
Silje Maria Høydal	Student research assistants (bioBEE)	BIO. UiB
Susanne Zazzera	Student research assistants (bioBEE)	BIO. UiB
Emily Christensen	Student research assistants (bioBEE)	BIO. UiB
Sofie Haave Orthe	Student research assistants (bioBEE)	BIO. UiB
Gina Kolbari Barry	Student research assistants (bioBEE)	BIO. UiB
Hanif Kwousi	Student research assistants (bioBEE)	BIO, UIB