

Fra toppen!

Utvikling

Det er hyggelig å kunne slå fast at vi som institutt utvikler oss på flere felter. Denne uken hadde vi vårt første lederseminar. Gruppelederne var samlet på Espegrend i to dager for å diskutere ledelse, rolleforståelse og forventninger til forskningsgruppene. Under kyndig veiledning fra AFF ble det diskutert og reflektert rundt disse temaene, og prosessene fortsetter nå internt i gruppene og i ledersamlinger fremover høsten.

En annen nyvinning er midtveiseevaluering av PhD-prosjektene våre. Førstemann ut var Atif Kamil (Fiskesykdomsgruppen) som presenterte prosjektet sitt for et evalueringspanel. Dette fungerte etter rapportene veldig bra. Her er det viktig at alle vitenskapelig ansatte stiller solidarisk opp i panelene som blir oppnevnt for høstens og vårens runder.

Hilsen Anders



Ukens bilde



Sea Lice Research Centre opened

Friday 9 Sept. the new Centre for Research-based Innovation (SFI), the Sea Lice Research Centre, was opened.

Here UiB Rector Sigmund Grønmo gives Centre Leader, **Frank Nilsen**, the SFI plaque. Also present are the Norwegian Fisheries and Coastal Affairs Minister, Lisbeth Berg-Hansen (r) and Eirik Normann from the Research Council of Norway (l). Photo: Lars Arne Hamre

[Read more.](#)

You are invited to submit photos (electronically!) for "Ukens bilde". Please include a very short description and credit information. Picture can be of researchers / students in action, technology, organisms, field sites. Please send your

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Siste nytt fra BIO

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Oppstart midtveisevaluering, ph.d. kandidat – Atif Kamil

Instituttet gjennomførte torsdag 16. september sin første midtveisevaluering av ph.d. kandidater. Instituttet er pålagt å gjennomføre midtveisevaluering som en del av UiB tiltaksplan for forskerutdanning.

Ph.d. kandidat Atif Kamil var utpekt som BIOs pilotkandidat og presenterte status og videre fremdrift av sitt prosjekt "Characterization of Immunoglobulin isotypes and accessory molecules in Atlantic salmon (*Salmo salar*)" for et professoralt toppungt evalueringspanel bestående av Anders Fernø, Gunnar Bratbak, Heidrun I. Wergeland, Dag L. Aksnes samt Seniorforsker Kristin Hamre, NIFES.



Det er planlagt midtveisevaluering i perioden 24-28 oktober 2011 for BIOs øvrige kandidater som er i sitt 2 studieår.

For øvrig var både kandidat Atif Kamil, veileder Ivar Hordvik samt evalueringspanelet fornøyd med gjennomføringen av midtveisevalueringen.

Young Scientists' Retreat 2011: Get involved in a scientific and social network.

13 th October at Vilvite

Open to all PhDs and post-docs at BIO, MBI, II, BBB, Sars and CGB

MCB's Young Scientists' Retreat is a great opportunity to meet your fellow PhD students and postdocs, to learn about their research and to practice presenting data in an informal setting.

All participants are requested to submit an abstract of their work or any published article you find interesting. The talks requested will be short presentations of 10-12 minutes.

After the presentations there will be a dinner for all the participants.

Registration Deadline: September 30th, 2011

To register, please submit a short abstract (max. 300 words) to puja.gupta@mbi.uib.no

[Learn more.](#)

Fiskaren om forskning

Anders Goksøyr, instituttleder, Institutt for biologi og Dag Rune Olsen, dekan, Det matematisk-naturvitenskapelige fakultet sier i et [leserbrev i På Høyden](#) at PFU har slått fast at Fiskeribladet Fiskaren (FF) ikke har brutt god presseskikk i sine oppslag om varslingsaken ved Institutt for biologi i vår. De sier at de er overrasket over konklusjonen, men tar PFUs vurdering til etterretning.

Retningslinjer for betaling av ekstra sensur og undervisning

Fastsatt 31. august 2011 (sak nr 2011/2911)

Bl.a. Retningslinjer for registrering av arbeidstid og overtid for ansatte ved UiB, fastsatt 7. april 2011 (jnr 2011/4819) gjelder også for ansattes arbeid med ekstra sensur og undervisning.

[Les mer.](#)

New on the External Web pages

Norwegian:

[Vitenskapshistorier: Mat eller Miljø?](#)

[Brukar Sogn som klimalaboratorium](#)

BIO-info

Nyheter fra Institutt for biologi

[BIO har fått en SFI
Bløte slektninger](#)

English:

[A Siberian field experience](#)
[BIO has a new research centre](#)
[Molluscan relationships clarified using phylogenomics](#)

Scottish and Norwegian microbiology prize winners

Professor Tracy Palmer of the University of Dundee has been appointed a Royal Society Wolfson Research Merit Award holder. In Norway, the Møbius Prize for 2010 is awarded to eminent microbiologist University of Bergen's Professor **Tron Frede Thingstad** at the Department of Biology. Read more from [Compute Scotland](#).

Undervisningsnytt

UNIS courses, EndNote course, BIO300

UNIS – Arctic and environmental pollutants and toxicology

Please see [here](#) for more information about the Master/Phd course package of AT-324 Techniques for Detection of Organo-Chemical Pollutants in the Arctic Environment, AT-330 Arctic Environmental Toxicology and AT-331 Arctic Environmental Pollution: Atmospheric Distribution and Processes for spring semester 2012. Application deadline is 15. October 2011.

EndNote course for Master's students

The Science Library offers a course in EndNote X4 for Master's students at BIO, and you can choose between two alternative dates and times: Wednesday **21 September, 13:00-15:45** or Thursday **29 September 9:15-12:00**.

16 places per course. Sign up by e-mail to oddfrid.forland@bio.uib.no as soon as possible. BIO300 students will be given priority, but the course is open for others if there are still available places.

The focus will be on:

- 1) What is a reference tool and how can it help you?
- 2) Cite as you write - Using EndNote to take insert references/generate reference lists in a MS Word Document
- 3) How to fill up your EndNote library: Exporting from databases/Searching from EndNote/Manual entries
- 4) Using and changing journal styles

BIO-info

Nyheter fra Institutt for biologi

BIO300 students doing field work

In total, eight groups in BIO300 (Biological data analysis and research design) has during the past two weeks done investigations on water quality in recipient systems in collaboration with Bergen municipality to assess impacts from waste water treatments in areas under environmental pressure and (potential) swimming/bathing locations in Bergen.



Master students in BIO300 (group 3) taking water samples and biodiversity samples in Store Lungegårdsvannet in Bergen, Thursday Sept. 8. In spite of heavy rain most of the day, they were highly motivated for the tasks in field! From left; Ann Carole Vallejo, Martin Søndergaard Jørgensen, Ina Bakke Birkeland, Nawaraj Gautam, and Karina Skjervheim Prestegård)

Foto: Christian Irgens



One of the sampling sites of group 3 is nearby the large construction site next to Store Lungegårdsvannet. Foto: Christian Irgens

Foto: Christian Irgen

Siste nytt fra verden rundt oss

Forskningsdagane; Nytt bloggvertøy for formidling frå tokt eller feltarbeid; UiB kontor på Mongstad: INN September



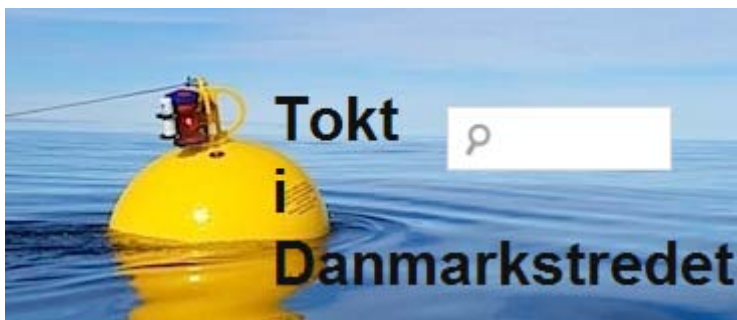
Forskningsdagene

Universitetet i Bergen er vertskap for Forskningsdagene i Bergen, 23. september - 2. oktober 2011. I år kan du få med deg Forsker grand prix, Kunnskapsfest, forskningstorg, skoleprosjekter, museumsdag, filmvisninger, foredrag, debatter og seminarer.

[Les mer.](#)

BIO-info

Nyheter fra Institutt for biologi



Bloggverktøy for formidling frå tokt eller feltarbeid

Me har tilrettelagt eit bloggverktøy i samband med eit tokt der forskarar på GFI deltek – [se mer](#). Det spesielle med bloggen er at innlegga også blir [synlege på kart](#).

Det er to geofagklassar i Bergen som følger toktet spesielt (Olsvikåsen vgs og Tertnes vgs), men også andre

elevar les bloggen. Ein journaliststudent er med på toktet og sørger for det meste av tekst og bilete til [bloggen](#).

Eg veit ikkje om Insitutt for biologi har planar om å drive formidling frå tokt eller feltarbeid, men skulle de nokon gong få behov for ein georeferert blogg, kan det vere greit å vite om at verktøyet er laga. Det er sjølvsagt like enkelt å lage kart over eit feltarbeid på landjorda som eit tokt til sjøs. Me bruker Google-kart internasjonalt og Statens kartverk sine kartdata her heime.

Kontakt Olaug Vetti Kvam, [Skolelaboratoriet i realfag](#), Universitetet i Bergen for mer info.

UiB-kontor på Mongstad

Dekan Dag Rune Olsen sier at gjennom et eget kontor skal UiB komme nærmere både næringslivet og kunnskapen på Mongstad.

Les mer i [På Høyden](#).

Fikk 10 millioner

Nå skal Sigmund Grønmo gi museumsparken et løft.

Les mer i [Bergens Tidende](#) og i [På Høyden](#).

Nyhetsbrevene

[IMBER-Sept](#) [CICERO](#)



INN September 2011

News and Activities in Bergen for autumn – for everyone!

[Read more](#).

Ledige stillinger for biologer

Mer info finner du [her](#). Stillinger utlyst på BIO finner du nederst til høyre på instituttets [nettside](#).

Forskning: utlysninger, nye satsinger og prosjekter

Mer info om utlysninger inkl. løpende, dvs. uten frister finner du [her](#)

Husk å sende søknadsutkastet til post@bio.uib.no 1 uke i forveien (gjelder ikke mindre bevilgninger som legater og fonds)

[Midler til prosjekter som fremmer innovasjon og entrepenørskap i høyere utdanning](#)

EKSTRAORDINÆR utlysning. Utdanningstilbud innenfor høyere utdanning relatert til entrepenørskap og innovasjon

I fjor lyste Kunnskapsdepartementet ut 4,4 millioner til prosjekter for å fremme innovasjon og entrepenørskap i høyere utdanning i tråd med handlingsplan utformet av Kunnskapsdepartementet, Kommunal- og regionaldepartementet og Nærings- og handelsdepartementet. Utlysningen fra i fjor er av KD besluttet videreført i år, og økt til 4,45 millioner.

BIO-info

Nyheter fra Institutt for biologi

"Entreprenørskapskompetanse er relevant for alle områder i arbeids- og næringslivet, både innenfor nye og etablerte virksomheter"

(Handlingsplan 2009-2014 - KD, KR, NHD - Oslo 08/2009)

Søknadsfristen i år er den 30. september, [Mer info](#)

Kurs, møter, seminar og arrangement

Mer info om kurs, møter, seminar og arrangement etc finner du [her](#).

Strålevern kurs; Habitat Day; Workshop deep-sea corals; Deep-Sea-Biology Symposium; Fagleg-pedagogisk dag

Invitasjon til 3-dagers strålevernskurs 24.-26. oktober 2011

HMS-seksjonen ved Personal- og organisasjonsavdelingen ved Universitetet i Bergen inviterer til 3-dagers kurs i strålevern. Invitasjon bes viderefremmet aktuelle personer ved enheten.

[Les mer.](#)

Habitat Day

WORLD HABITAT DAY 2011 - CITIES AND CLIMATE CHANGE: URBAN FOOD SECURITY
Monday 3 October, 9am – 2pm, evening event 6 pm at Litteraturhuset

[Learn more.](#)

Looking for a location for a conference?

Check out Ernst & Young Marineholmen Conference Centre, Thormøhlensgt. 53.

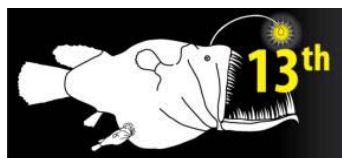
[Learn more.](#)

Identification of deep-sea corals from imagery data

Workshop 1st April 2012

A workshop 'Identification of deep-sea corals from imagery data' focusing on deep-water coral identification from imagery, convened and organised by Ifremer in association with the French Marine Protected Areas Agency, CoralFISH, NOAA and the University of Plymouth will take place on Sunday 1 April in the Artis conference premises.

[Learn more.](#)



13th Deep-Sea Biology Symposium

Details of the 13th International Deep-Sea Biology Symposium to be held in New Zealand can be found on [a website](#). You can register your interest in the symposium at this site, and receive email updates when registration is open etc.

Havdagen 11. oktober 2011

Som et ledd i Vitenskapsåret arrangeres Havdagen i Oslo tirsdag 11. oktober. Arrangementet setter havet i sentrum og vil presentere marin forskning i stor bredde og med ulike formidlingsformer. Datoen 11. oktober er ikke tilfeldig valgt. Dagen før markeres Nansens 150-årsjubileum.

Finn program og mer info hos [Forskningsrådet](#).

Livsvitenskapskonferanse 'Life Science for Innovation and Health' med nobelprisvinner Varmus

Kunnskapsdepartementet, Helse Sør-Øst og Universitetet i Oslo inviterer til livsvitenskapskonferansen 'Life sciences for Innovation and Health' med Nobelprisvinner professor Harold Varmus

Dato: 11. oktober Kl: 12.00 - 16.15. Sted: Universitetet i Oslo. [Mer info](#)

Faglig-pedagogisk dag 2012

Invitasjon om tema og forelesingar til FAGLEG-PEDAGOGISK DAG - 3. februar 2012:

SEVU inviterer fagmiljøa ved UiB til å komme med forslag til tema dei ønskjer å forelese i/halde kurs om på neste års Fagleg-pedagogisk dag, som blir arrangert *fredag 3. februar 2012*.

Formålet med dagen er som kjent bl.a. å gje lærarar høve til å bli oppdatert på utviklinga innanfor sine fag og det som skjer på forskingsfronten. Denne opne fagdagen for lærarar frå ungdoms- og vidaregåande skular frå heile Vestlandet har blitt ein svært viktig tradisjon.

Bidraga kan vere i form av forelesingsrekkjer eller miniseminar innan eit fagområde, eller som "vanlege" forelesingane på ein til to undervisningstimar. Særleg i den vidaregåande skulen blir det undervist i eit mangfald av fag ved ulike studieretningar og med mykje tverrfagleg prosjektarbeid. Dette inneber at *emne frå fagområde ved alle fakulteta er aktuelle som forelesingstema*.

Her oppfordres alle BIO-ansatte til å bidra! Studieseksjonen koordinerer bidraga frå BIO. Finn meir info her, og ta kontakt med studieseksjonen dersom du ønskjer å bidra med forelesing til Fagleg-pedagogisk dag (studie@bio.uib.no). **Frist 5. oktober.**

Nye artikler

Rapp; Mayer; Skjæråsen; Rodewald; Sverdrup; Fernö; Høisæter; Schander; Sundelöf; Reigstad; Jørgensen; Schleper

Rossi AL, Russo CAM, Solé-Cava AM, **Rapp HT**, Klautau M. 2011. Phylogenetic signal in the evolution of body colour and spicule skeleton in calcareous sponges. *Zoological Journal of the Linnean Society*. doi: 10.1111/j.1096-3642.2011.00739.x

Abstract: Some of the morphological characters used in Porifera taxonomy have often been shown to be inconsistent. In the present study, we tested the phylogenetic coherence of currently used taxonomic characters of the calcarean genus *Clathrina*. For this, 20 species of *Clathrina* and three other calcarean genera (*Ascandra*, *Guancha*, and *Leucetta*) were sequenced for the ITS and D2 region of the 28S ribosomal DNA. Maximum-likelihood and maximum parsimony algorithms were used to reconstruct phylogenetic trees. Deep divergences were observed in our tree and *Clathrina* was shown to be paraphyletic. The major split in our topology showed a clear-cut distinction between sponges with and without tetractine spicules. Moreover, a group of yellow-coloured *Clathrina* was clearly separated from the remaining white-coloured species. Our results show that the presence of diactines, water-collecting tubes, the degree of cormus anastomosis, and actine shapes do not correlate with the major clades of the calcarean phylogeny. On the other hand, the presence of tripods, the absence of tetractines, and the presence of spines in the apical actine of tetractines seem to be good synapomorphies for clades in our tree. Our results demonstrate that skeleton characters can be reliably used in higher level taxonomy in Clathrinida.

Mayer, I., Meager, J., Skjæråsen, J.E., Rodewald, P., Sverdrup, G. and Fernö, A. 2011. Domestication causes rapid changes in heart and brain morphology in Atlantic cod (*Gadus morhua*). *Environmental Biology of Fishes* 92, 181–186.

Abstract: Brain and heart development is very plastic in teleost fishes, and receptive to changes in social and environmental conditions. Domestication in salmonids has been reported to result in pronounced changes in both heart and brain morphology. In particular, a high prevalence of heart deformities has been reported in farmed salmonids, which has been linked to increased stress responsiveness that can impair survival of both farmed and escaped fish. Here we report for the first time that significant changes in heart and brain morphology occur following domestication of Atlantic cod (*Gadus morhua*), an emerging aquaculture species. Juvenile farmed cod developed significantly larger hearts and smaller brains, by weight, compared to their wild conspecifics. These differences occurred within the first captive generation, suggesting that they were driven largely by the strong contrast in environmental and social conditions experienced within their respective rearing environments. Changes in brain and heart morphology, as a consequence of domestication could affect the well-being and survival of Atlantic cod raised under intensive aquaculture conditions.

Tore Høisæter, Jon-Arne Snelli, **Christoffer Schander**, **Hans Tore Rapp**, Matz Berggren (2011). *Xandarovula patula* (Gastropoda: Ovulidae) new to Scandinavia. *Marine Biodiversity Records*,

1-4. # Marine Biological Association of the United Kingdom. doi:10.1017/S1755267211000583; Vol. 4; e58; 2011 Published online.

Abstract: In August 2009 six specimens of the ovulid gastropod *Xandarovula patula* (Pennant, 1777) (formerly known as *Simnia patula* Pennant, 1777), were found in dredge samples from a locality west of Smögen in western Sweden (58 822'N 11 805'E). In June and November 2010 a total of three specimens of the same species were found in dredge samples from near Svelgen Bridge, Øygarden, Hordaland, western Norway (60 827'N 04 857'E). Several small colonies of the presumed prey species, *Alcyonium digitatum* Linnaeus, 1758 and *Tubularia indivisa* Linnaeus, 1758, were found in the same dredge hauls. *Xandarovula patula* has been recorded from the Atlantic coast of southern Spain to the western end of the English Channel, with scattered records from the west coasts of Ireland and Britain, as far north as the Orkneys. More recently it has been reported from most Irish coasts, several parts of the Scottish coast and also from some places in the North Sea. Until now there have been no confirmed records from Scandinavian waters. The specimens recorded here may indicate recent immigration of a southern species due to warmer water temperatures.

Tore Høisæter, Daniel L. Geiger (2011). Species of *Anatoma* (Gastropoda: Anatomidae) in Norwegian and adjacent waters, with the description of two new species. *The Nautilus* 125(3):89–112.

Abstract: The species of *Anatoma* Woodward, 1859 from Norwegian waters and from the Norwegian Sea are treated taxonomically. *Anatoma crispata* (Fleming, 1828) has until quite recently been regarded as the sole representative of this family in north European waters, but constant conchological differences make it evident that at least three species have been lumped under this name in Norwegian and other Scandinavian literature. Three species, *A. crispata*, *A. aspera* (Philippi, 1844) and *A. tenuisculpta* (Seguenza, 1877) are redescribed and two new species from deep water in the Norwegian Sea, *A. schioettei* new species and *A. schanderi* new species, are described based on shell characters. The distribution in inshore Norwegian waters and in the Norwegian Sea is described, and possible microhabitats suggested. Also geographical variability of conchological characters is discussed in some detail.

Andreas Sundelöf & Per R. Jonsson. Larval dispersal and vertical migration behaviour – a simulation study for short dispersal times. *Marine Ecology*. doi:10.1111/j.1439-0485.2011.00485.x

Abstract: Current speed often varies with depth, so vertical movements of larvae are expected to have profound effects on dispersal velocity and therefore dispersal potential. Systematic behaviours are expected to have strong effects on dispersal. However, reliable information on the presence of vertical migrations in larvae is scarce, but the few well investigated empirical examples justify a detailed simulation study and an analysis of potential effects. We present a spatially explicit 3D hydrodynamic model that incorporates biological information in the form of active particles advected in a Lagrangian fashion. The set-up is designed to analyze the sensitivity of dispersal distances to variation in vertical behaviour of larvae. We simulated short (4 days) pelagic larval durations (PLDs) to determine whether behaviour might be important over short dispersal periods. We found that sinusoidal behaviours (slow vertical migration) in or out of phase with tides did not significantly change the dispersal patterns compared to those of larvae that remained at the surface. By contrast, a quadratic pattern of behaviour resulting in rapid vertical migration, in or out of phase with tides, had dramatic effects on both distance and direction of dispersal. The resulting dispersal kernels were found to be multimodal due to the interaction between tidal and meteorological components in flow. Incorporating biological information on larval migrations in Lagrangian simulation of dispersal will be important in estimates of connectivity and forecasting marine reserve networks.

Laila Johanne Reigstad, **Steffen Leth Jørgensen**, Stein-Erik Lauritzen, **Christa Schleper**, Tim Ulrich Sulfur-Oxidizing Chemolithotrophic Proteobacteria Dominate the Microbiota in High Arctic Thermal Springs on Svalbard. *ASTROBIOLOGY* Volume 11, Number 7, September 2011, p. 665-678.

Abstract: The thermal springs Trollosen and Fisosen, located on the High Arctic archipelago Svalbard, discharge saline groundwaters rich in hydrogen sulfide and ammonium through a thick layer of permafrost. Large amounts of biomass that consist of filamentous microorganisms containing sulfur

granules, as analyzed with energy dispersive X-ray analysis, were found in the outflow. Prokaryotic 16S rRNA gene libraries and quantitative polymerase chain reaction (qPCR) analyses reported bacteria of the c- and e-proteobacterial classes as the dominant organisms in the filaments and the planktonic fractions, closely related to known chemolithoautotrophic sulfur oxidizers (Thiotrix and Sulfurovum). Archaea comprised *1% of the microbial community, with the majority of sequences affiliated with the Thaumarchaeota. Archaeal and bacterial genes coding for a subunit of the enzyme ammonia monooxygenase (amoA) were detected, as well as 16S rRNA genes of Nitrospira, all of which is indicative of potential complete nitrification in both springs. 16S rRNA sequences related to methanogens and methanotrophs were detected as well. This study provides evidence that the microbial communities in Trollosen and Fiosen are sustained by chemolithotrophy, mainly through the oxidation of reduced sulfur compounds, and that ammonium and methane might be minor, additional sources of energy and carbon.