

Fra toppen!

BIO300 ruler!

Denne uken hadde det nye master-kullet på BIO300 sine avsluttende prosjektpresentasjoner. Fra før hadde ryktene nådd oss om spennende performance-forestillinger i samarbeid med Carte Blanche. Onsdag formiddag fikk vi innfridd forventningene. Med kreativitet, innovativitet, entusiasme og innlevelse klarte gruppene å formidle sine vannkvalitetsundersøkelser fra Bergens-området på en særdeles engasjerende måte.

Vinnerne i ulike kategorier fikk sine velfortjente premier av en jury som ikke hadde noen lett oppgave (mer om dette lenger bak i BIO-info). Takk til Arild Folkvord og kanskje spesielt Karin Pittman for gjennomføringen av årets kurs, og en særlig takk til alle studentene for en flott formidlingsopplevelse! Nå er det bare å fortsette det gode arbeidet gjennom resten av masteroppgaven!



Hilsen Anders



Ukens bilde

A Great Day Out!

Photographer: **Hilary Birks**

Here is a photo of the **BIO 250** Palaeoecology class field day. We cored the sediments of Fjell Lake to study the history of the lake and its environment.

You are invited to submit photos (electronically!) for "Ukens bilde". Include a very short description and credit information. Picture can be of researchers / students in action, technology, organisms, field sites ... Send to bio.info@bio.uib.no

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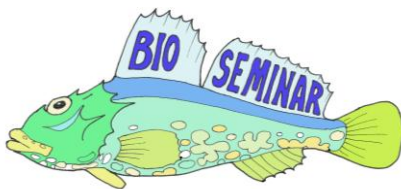
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HVA SKJER PÅ BIO?

Bio-seminar Larsson; Disputas Skulstad; Prøveforelesning Caballero; Mastergrads-eksamen Kambestad; Tangen og Marwaha

Neste uke på BIO, oversiktstabell

Dato	Handlinger, navn	Tid og sted
28.11.2010	Avsluttende mastergradseksamen Marius Kambestad	Mandag, 28.november 2011, kl. 13.15 i K1, Biobyggene
29.11.2011	Avsluttende mastergradseksamen Janhavi Marwaha	kl. 10:00, Seminarrom K3, 1. etasje, Biobyggene
01.12.2011	Avsluttende mastereksamen Sigrid V. Tangen	Kl. 10:15, Seminarrom K1, Biobyggene
01.12.2011	BIO seminar, Petter Larsson	kl 13-14 Seminarrom K1/K2, 1. etg A-blokka
02.12.2011	Prøveforelesning Arguitxu del la Riva Caballero	kl. 13:15, Seminarrom K1, 1 etasje, Blokk A, Institutt for biologi
02.12.2011	Disputas Ole Fredrik Skulstad	10.15, Stort Auditorium, Høyteteknologisenteret, Thormøhlens gt. 5
02.12.2011	JULEFEST	Kantinen HIB 19.00.- 02.00...



BIO seminar, Petter Larsson

Torsdag 1. desember kl 13-14
Seminarrom K1/K2, 1. etg A-blokka

By : Petter Larsson
Aquatic Behavioural Ecology



Be fat or have sex? – Daphnia over-wintering strategies at high and low altitudes.

Daphnia is an ideal model organism for the study of life history strategies. This is because it has both a sexual and asexual reproduction modus, and which one they choose is to a large extent a response to the environmental conditions. As herbivore zooplankton they have a particular challenge in overcoming the winter. When there is no phytoplankton, there is oxygen depletion under the ice and there might be winter active fish or invertebrate predators. How they manage to survive is what the talk is about and their reproduction modus is a crucial point.

Presentation will be held in Norwegian with English text on slides

Disputas Ole Fredrik Skulstad

Ole Fredrik Skulstad disputerer for ph.d. graden fredag 2. desember med avhandlingen: "Effects of photoperiod manipulation on behaviour and sexual maturation in farmed Atlantic cod (*Gadus morhua* L.), production and welfare implication"

Veiledere: Geir Lasse Taranger, HI, Ian Mayer, BIO, Ørjan Karlsen og Tore Kristiansen, HI

Bedømmelseskomite: Leader, Cefas Fish Ecology team David Righton, Lowestoft Laboratory, CEFAS, UK, Professor Even Jørgensen, Norges Fiskerihøgskole, Universitetet i Tromsø, Professor Karin Pittman, Department of Biology, University of Bergen

Leder av disputasen: Professor Arild Folkvord, Universitetet i Bergen

Tid og sted: 2. desember 2011, kl. 10.15, Stort Auditorium, Høyteknologisenteret, Thormøhlens gt. 5

Alle interesserte er velkommen

Ph.d. prøveforelesning

Arguitxu del la Riva Caballero vil fredag 2. desember holde forelesning over oppgitt emne for PhD graden.

Tittel: " Responses to environmental gradients - adaptations of mites "

Tid og sted: Fredag 2. desember 2011, kl. 13:15, Seminarrom K1, 1 etasje, Blokk A, Institutt for biologi

Bedømmelseskomité: Anne Karin Hufthammer(leder), Gaute Grønstøl, Manuel Antonio E. Malaquias

Alle interesserte er velkommen

Avsluttende mastergradseksamen

Marius Kambestad vil presentere sin masteroppgave Biologi, Biodiversitet, evolusjon og økologi

"Coexistence of habitat generalists in neotropical petiole-breeding bark beetles: Molecular evidence reveals cryptic diversity, but no niche segregation".

Veileder: Lawrence Kirkendall, Sensor: Hans K. Stenøyen, Bisitter: Rune Rosland

Tid og sted: Mandag, 28.november 2011, kl. 13.15 i K1, Biobyggene

Alle interesserte er velkommen

Avsluttende mastergradseksamen

Janhavi Marwaha holder tirsdag 29. november avsluttende presentasjon av sin masteroppgave i Havbruksbiologi:

"The protection afforded by the outer lectin layer to procercoids of *Schistocephalus solidus* during passage through the stomach lumen of their vertebrate host (*Gasterosteus aculeatus*)."

Veileder: Per Johan Jakobsen, Knut Helge Jensen

Sensor: Geir Helge Johnsen, Rådgivende biologer Bisitter: Are Nylund

Tid og Sted: Tirsdag 29. november, kl. 10:00, Seminarrom K3, 1. etasje, Biobyggene

Alle interesserte er velkommen

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Nyheter fra Institutt for biologi

Avsluttende mastergradseksamen

Sigrid V. Tangen holder tirsdag 29. november avsluttende presentasjon av sin masteroppgave i Marinbiolog, Marin biodiversiteti:

“A taxonomic inventory of Demospongiae occurring at abyssal depth on an arctic seamount, the Scultz Massive.”

Veileder: Hans Tore Rapp

Sensor: Jon Arne Sneli , Bisitter: Jorun Egge

Tid og Sted: torsdag 1. desember, kl. 15:00, Seminarrom K1, 1. etasje, Biobyggene

Alle interesserte er velkommen

NYHETER FRA BIO

BIO300 presentations; Report from Ethiopian symposium; Ulf Lie fyller 80 år

Creative BIO 300 students!

This year's new master students in BIO300 had their final presentations Wednesday this week. The students had analyzed the water quality of samples taken from various locations in Bergen. Eight groups presented their results and four presentations were enriched by creative performance. All presentations were of very high quality and for the audience, three hours were flying. A panel representing BIO, Bergen Kommune and Høgskolen i Stord og Haugesund Musikklinjen awarded prizes for the best and for the most creative presentations. We recommend everyone at BIO to mark their calendar for next years event!



Happy winners of “best presentation” (left) and “most creative presentation” (right) with their prizes. Harald Kryvi, another creative biologist, has made the art prize shown in the right picture.

At the end we were shown, a video made by Marcus Soyland and the other students from Group 5. For this he got flowers from one of the teachers Arild Folkvord (right picture) who in his enthusiasm called this years students “the best BIO300 students ever”

Marcus and the others have made a beautiful film about “Water in Bergen”.

Enjoy! <http://vimeo.com/32411081>





Biotechnology and microbial diversity of Ethiopian soda lakes

In October this year Lise Øvreås arranged a symposium together with Associate professor Amare Gessese at Addis Ababa University. For this symposium 15 internationally recognized scientists, within the field of microbial ecology were invited. By doing this we envisage that the workshop would give us the opportunity to bring together scientists from different countries working in the field and share experiences. It could also have an impact in increasing awareness of policy makers in Ethiopia about the potential of the alkaline soda lakes as sources of unique genetic resource and the danger posed on such valuable ecosystems from different human activities.



The project, which started in 2007, is now in its final year. 16 master students and 3 PhD students have worked on the project and the team has run several training programmes for technical personnel in Ethiopia. The project has begun the mammoth task of forming an inventory of microbial life in the Ethiopian alkaline soda lakes and their surrounding environments. These unique ecosystems having the highest primary productivity ever recorded for a natural habitat. Because of their high productivity and pH, and salinity gradients the lakes are thought to support a tremendous variety of (halo) alkaliphilic microorganisms.

This unique and valuable microbial genetic resource has enormous potential, especially in biotechnology. It is however threatened because of changes in the chemistry of lakes mainly caused by human activities. New laboratory facilities have been created in the Department of Biology, Addis Ababa University to ensure that Ethiopian scientists have the facilities they need to document, monitor and preserve this resource for future generations.

The research project is supported by the Norwegian Programme for Development, Research and Education (NUFU) in recognition of the outstanding potential of this environment and the outstanding strategic importance of sustained and consequential research collaboration between academic institutions in Africa and the rest of the world.

You can read more about the project in this weeks [På Høyden](#)

All photos: Anders Lanzén



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Nyheter fra Institutt for biologi

Ulf Lie fyller 80 år 26 november!

Under følger et utdrag av kronikk i [På Høyden](#) som er skrevet av

Dag L. Aksnes, Jorun Egge, Jarl Giske, Peter M. Haugan, Eystein Jansen, Truls Johannessen, Stein Kaartvedt, Rune Rosland, Andreas L. Steigen, John-Inge Svendsen, Frede Thingstad, Thorolf Magnesen

«Ringer i vannet: betydningen av et forskerliv

En forskers meritter måles i dag med et enkelt tastetrykk som gir oss antall publikasjoner, siteringer, h-indeks med mer. At betydningen et forskerliv må måles langs flere dimensjoner viser vi her i anledning av at Ulf Lie, professor emeritus og forhenværende direktør for Senter for miljø- og ressursstudier ved UiB, fyller 80 år 26. november 2011. Vi konkluderer at flere av UiBs sterke faglige sider kan spores tilbake til Lies virke. I tillegg har hans engasjement i globale miljø- og utviklingsspørsmål hatt ringvirkninger langt utover vårt land. Dette skjedde fordi Ulf Lie ikke lyttet til oppfordringen «Vær deg selv, nok». Universitetet trenger enere som aldri mister fokuset på nye publikasjoner, men må også dyrke fram slike ledere som trekker andre med seg.»

Les hele kronikken [her](#)

ANDRE NYHETER

NFR-innspill stasbudsjettet 2013; Ny informasjonsplakat villaks/oppdrettslaks



Prioriterer samfunnsutfordringene

Forskningsrådet foreslår en budsjettvekst på 1 milliard kroner i sitt første innspill til statsbudsjettet for 2013. Fem innsatsområder foreslås prioritert spesielt.

[Les mer](#)

Villaks eller oppdrettslaks? – Oversendelse av informasjonsplakat

KLV har utarbeidet plakat som blant annet kan brukes i undervisningssammenheng både på skoler og i ulike lag og foreninger. Mer info [39lakseplakat.msg](#)

NYE UTLYSNINGER

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)

[Hypergravity Experimentation; Marine Biology Courses;](#)

ESA Education Supported Hypergravity Experimentation - Spin Your Thesis! 2012

On September 5, 2011, the European Space Agency proudly announced its 'Spin Your Thesis!' 2012 programme. Through this programme, several teams of university students* will be given the

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opportunity to carry out experiments in hypergravity using the Large Diameter Centrifuge (LDC) in ESTEC, the Netherlands. The LDC allows samples to be exposed to acceleration forces of 1-20 times Earth's gravity. A total of six gondolas can be supported, each with a payload of up to 80 kg. More details on the program are available [here](#):

The deadline for experiment proposals, December 12, 2011, is quickly approaching! Now is the time to submit proposals by following the steps outlined [here](#):

Kurs

Marine Biology Courses Elba Island 2012

2012 Marine Biology course program at the field station of Elba Island / Italy, now bookable [here](#). From mid-August Curriculum on SCUBA diving as a scientific method in cooperation with the University of Tübingen (Germany) is also offered. Two Course Combinations, "Basic Field Course" and "Advanced Field Course" are available, including the award of credit points. More informations about all Courses in Marine Biology [here](#)

KOMMENDE MØTER OG SEMINAR

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

Møteplass marin; 3rd Marine Board Forum; Hjernekart;



Møteplass marin

inviterer til åpent informasjons- og debattmøte om:
Fremtidens fiskerinæring – fangsteffektiv, energioekonomisk og bærekraftig

Tid: Mandag 5. desember 2011, kl. 1500-1800
Sted: Grand Selskapslokaler i Bergen. Nedre Ole Bulls Plass
39MMarin.doc

3rd Marine Board Forum: NEW TECHNOLOGIES FOR A BLUE FUTURE



The 3rd Marine Board Forum is designed to examine emerging or future "Blue Technologies". In this case, blue technologies are those technologies which will either be used in, or drawn from, the seas and oceans and which should have the potential to make a step-changing contribution to science and society.

The Forum will address the following questions:

- What blue technologies can we expect in the future?
- What impacts might they have on science and/or society? and
- What support is necessary to fast-track their development?

Time and Place: **Brussels, Wednesday 18 April 2012.**

You can find more info [here](#) and register [here](#)

Hjernekart – vitenskapsteoretisk seminar om kartlegging av mentale funksjoner i hjernen

Sted: Senter for vitenskapsteori, Allégaten 34, Seminarrommet, 3. etasje.

Tid: Tirsdag 13. desember 10:15-16:00

Påmelding til judith.larsen@svt.uib.no (mrk: "Hjernekart") innen mandag 12. desember kl. 10:00
[Mer info](#)

LEDIGE STILLINGER

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

[Student jobs Iversity](#);

Internships or Student Job. Become an iversity Campus Ambassador!

By way of background, iversity is an online platform for research and education funded by the European Union.

As our Campus Ambassador, you must be creative, communicative, entrepreneurial and have excellent networking skills. You should be passionate about reforming higher education and promoting iversity's vision. Your job as a Campus Ambassador will be to spread the word – on your campus, in social media, press, etc. – for example, with the help of our video contest starting early 2012.

[More info](#)

NYE ARTIKLER

***A full listing of BIO's ISI publications can be found on BIO's internal web pages. [Click here](#)

[Urtizberea](#); [Braithwaite](#); [Lenhard](#)

Torres AP, Reglero P, Balbin R, **Urtizberea A**, Alemany F (2011) Coexistence of larvae of tuna species and other fish in the surface mixed layer in the NW Mediterranean. *Journal of Plankton Research* 33:1793-1812

Abstract: To analyze the potential trophic interactions among tuna larvae and other fish species, we studied the larval fish assemblages inhabiting the surface mixed layer around the Balearic Islands using data from two surveys carried out in summer 2006 and 2008. Despite the high diversity, *Thunnus alalunga*, *Auxis rochei*, *Cyclothone pygmaea* and *Ceratoscopelus maderensis* clearly dominated the catch in both years. The spatial distribution of several larval fish assemblages, in which tuna larvae were among the dominant species, was related to the presence of fronts and mixed Atlantic waters (AW). Different developmental stages of tuna were found in similar hydrographical scenarios. Smaller tuna larvae and plausible piscivorous tuna were found in the areas with mixed AW. Later in the season, potential piscivorous tuna were found together with small larvae from other non-tuna species that had been spawned later and transported by the fresh AW flow to offshore stations. That the different life stages of tuna co-occur with mesopelagic species in the mixed layer reveals the interesting possibility of ecological interactions between the different larvae.

Luong LT, Hudson PJ, **Braithwaite VA** (2011) Parasite-induced Changes in the Anti-predator Behavior of a Cricket Intermediate Host. *Ethology* 117:1019-1026

Abstract: Many parasites with complex life cycles are known to modify their host phenotype to enhance transmission from the intermediate host to the definitive host. Several earlier studies explored these effects in acanthocephalan and trematode parasites, especially in aquatic ecosystems; however, much less is known about parasite-mediated alterations of host behavior in terrestrial systems involving nematodes. Here, we address this gap by investigating a trophically transmitted nematode (*Pterygodermatites peromysci*) that uses a camel cricket (*Ceuthophilus pallidipes*) as the intermediate host before transmission to the final host, the white-footed mouse (*Peromyscus leucopus*). In a laboratory experiment, we quantified the anti-predatory responses of the cricket intermediate host using simulated predator cues. Results showed a decrease in jumping performance

among infected crickets as compared with uninfected crickets, specifically in terms of frequency of jumps and jumping distance. Additionally, the relationship between parasite load and frequency of jumps is negatively correlated with the intensity of infection. These behavioral modifications are likely to increase vulnerability to predation by the definitive host. An analysis of the age-intensity pattern of infection in natural cricket populations appears to support this hypothesis: parasites accumulate with age, peak at an intermediate age class before the intensity of infection decreases in older age groups. We suggest that older, heavily infected crickets are preferentially removed from the population by predators because of increased vulnerability. These results show that cricket intermediate hosts infected with *P. peromysci* have diminished jumping performance, which is likely to impair their anti-predatory behavior and potentially facilitate parasite transmission.

de Almeida, CR, Stadhouders, R. de Bruijn, MJW, Bergen, IM, Thongjuea, S, **Lenhard, B.** van Ijcken, W. Grosveld, F. Galjart, N. Soler, E. Hendriks, RW. (2011) The DNA-Binding Protein CTCF Limits Proximal V kappa Recombination and Restricts kappa Enhancer Interactions to the Immunoglobulin kappa Light Chain Locus. *Immunity* 35:501-513

Abstract: Regulation of immunoglobulin (Ig) V(D)J gene rearrangement is dependent on higher-order chromatin organization. Here, we studied the in vivo function of the DNA-binding zinc-finger protein CTCF, which regulates interactions between enhancers and promoters. By conditional deletion of the *Ctcf* gene in the B cell lineage, we demonstrate that loss of CTCF allowed Ig heavy chain recombination, but pre-B cell proliferation and differentiation was severely impaired. In the absence of CTCF, the Ig kappa light chain locus showed increased proximal and reduced distal V kappa usage. This was associated with enhanced proximal V kappa and reduced J kappa germline transcription. Chromosome conformation capture experiments demonstrated that CTCF limits interactions of the Ig kappa enhancers with the proximal V(kappa) gene region and prevents inappropriate interactions between these strong enhancers and elements outside the Ig kappa locus. Thus, although Ig gene recombination can occur in the absence of CTCF, it is a critical factor determining V kappa segment choice for recombination.