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Denne ukas viktigste

Studieplanendringer for studieåret 2008/2009

Studieseksjonen ved BIO minner om fristen for å melde inn evt. studieplanendringer for studieåret 2008/2009 som er **15. september** (til studieseksjonen). Gi beskjed hvis det kommer innspill til over helgen så kan vi klare å få dem med også.

UiB: positioning funding for new EU projects is now continuous

Simone Heinz at the UiB Dept of Research Management (Forskningsavdelingen) reminds us that the Positioning Funding in FP7 is now continuous. This programme provides funding for organising workshops, conferences etc. in order to prepare EU-proposals. [More information](#)

She also tips anyone doing research relating to environmental issues that the FP7 funding programme in Environment has now been through three draft phases. The fourth version will be released at any moment. The final version is expected to come out in October/November with deadlines for proposals approximately three months later (i.e. February). More information to come.



Viktige tidsfrister

Mer info om følgende utlysninger og mange flere (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)

- | | | | |
|---------|--|---------|---|
| 15. sep | Fulbright grants
Fellowships for taxonomy of deep sea life | 30. sep | - COST
- ESF: Thermal adaptations in ectotherms |
| 17. sep | NordForsk: Såkornmidler | 1. okt | - Forskningsrådets BIP og KMB (skissefrist)
- Nordic Marine Academy: Forskerkurs |
| 18. sep | FP7: IDEAS /European Research Council:
Starting Independent Research Grants | 10. okt | HAVBRUK: BIP |
| 28. sep | -SYNTHESIS: access to taxonomic
Resources in Europe | 15. okt | FRESH-COST post-doc learning techniques |
| | | 17. okt | FP7: Marie Curie: Reintegration Grants |

Essentials in English

Changes to your courses of study for school year 2008/2009

Just a reminder that you need to send in possible changes to your courses of study for school year 2008/2009 by 15 September (send them to studieveileder@bio.uib.no). As the 15th is Saturday. Please let us know before the weekend if you think that you may be submitting changes – thanks!

Open House at UiB, 1 February 2008 – thinking about this year's presentations

It is once again time to begin to plan for this year's Open House day (the 15th such annual event), when teachers are invited to UiB to learn about the latest developments in their field and to find out what is happening on the research front today. BIO's contributions have rotated among the different research groups so that over the course of several years, all the different fields of research at BIO will have been presented. Studieseksjonen will contact the research groups whose turn is this year. If you would like to contribute, please contact studie@bio.uib.no.

Siste nytt fra BIO

Skjørt på Høyteknologisenteret?

BIO har fått kopi av brev fra Sars-senteret til universitetsledelsen, der Sars-senteret ber om at det bygges skjørt rundt deler av den nåværende bioblokken på Høyteknologisenteret. Dette fører til at arealet for våtlaboratorier i første etasje vokser. Lenge før Sars-senteret skrev dette brevet, årevis, faktisk, så har BIO framført samme ønske overfor universitetsledelsen. Vi deler derfor Sars-senterets og Industrilaboratoriets syn på at våtlabarealene er sprengt, og at det ingen steder er mulig å få billigere arealvekst enn gjennom et slikt påbygg på første etasje. Det kommer heller ikke noen slik arealer i de nybyggene som er planlagt på Marineholmen.

Vi har allerede skjørt på deler av nordvest-siden av bygget, og dette ønsker vi forlenget sørover (i retning Danmarks plass ..). Sars-senteret er i vekst og trenger mer våtlabareal for sine nye grupper. ILAB er fra før sterkt presset på arealer, og vil kunne øke framtidig utleieareal til glede for UiB og vår randsone på denne måten. For vår del håper vi også å kunne sitte igjen med litt av arealveksten.

Etter dagens planer skal BIOs eget areal i samme etasje bygges om vinteren 2009-2010. Disse ombyggingene av labarealer, både de tørre labene i 3. etasje i 2008 og de våte i første etasje 2009-2010, er veldig utfordrende. Vi må klare å fortsette å gjøre forskning mens arealene bygges om. Det finnes ingen oppskrift på hvordan det skal gå enkelt. Men dersom dette skjørtet hadde vært på plass, kunne vi fått låne deler av det i vår egen ombyggingsfase, slik at vi ikke blir alvorlig hemmet mens vi venter på at alt skal bli så mye bedre.



Etter at vi la våre nåværende arealplaner i 2004, har vi dessuten fått en flott tilvekst i professor Frank Nilsen som nettopp har fått FUGE-midler for å studere lakselus gener, og vi får senere i høst Mikko Heinos gruppe i evolusjonære konsekvenser av fiske (finansiert over Bergen forskningsstiftelse). Begge disse gruppene trenger laborer vi ikke har på tegningene våre. Forhåpentligvis vil vi allerede før vi har flyttet inn i nybyggene fått enda flere utfordringer av denne gledelige sorten.

Hilsen Jarl

I verktøykassen: Sebrafisk

Det hviler et tungt ansvar på **Heikki Savolainens** skuldre: Hver dag har han ansvar for opp til 40.000 av disse krabatene. Savolainen er avdelingsingeniør på BIOs og MBIs felles sebrafiskanlegg.

– Akkurat nå er det rundt 6000 fisk i tankene, vi kjører på 15 prosent bruksgrad. Men ved full kapasitet kan det være kanskje 40.000 fisk i dem, sier han. Vi befinner oss i et dunkelt belyst, varmt, fuktig rom på Høyteknologisenteret. På et areal på størrelse med en liten studenthybel står nærmere 1700 tanker oppstilt i 6 rekker. Tankene huser sebrafisk, i forskjellige livsstadier: Alt fra yngler til fullvoksne individer. Les mer [På Høyden ..](#)

Heikki kommenterte denne uka et forslag om å installere en dusj i slusen som skal hindre uønsket biologi og kjemi i å komme inn i sebrafisklaben slik: ”for min del kan det heller være en sauna”.



Emeritus with merit!

One of a few hundred students, **Bjørn Berland** knew everyone at UiB when he graduated in 1957. With three papers in Nature under his belt by 1961, Berland was well on his way to a long and fruitful scientific career that remains active to this day. Unbelievably, in less than a month he will celebrate his 78th birthday.

A native Bergenser, his work has taken him to many places around the world, with longer stays in Africa, Canada and South-East Asia (he finished a stint as a visiting fellow in Malaysia in 2005). His research area, fish parasites (particularly nematodes), became increasingly relevant with the advent of a serious aquaculture industry in Norway in the 70's. (Read his work, "Musings on nematode parasites" and you may re-evaluate your growing taste for sushi!)

Among a number of activities at realfagbygget, Berland is currently preparing to bring a few frozen ring seal stomachs with him to the International Fish Parasite



Symposium in Italy next month! In addition to giving a presentation at the conference, he will meet with colleagues in Italy who will do some molecular studies on his material. The results may prove that he and his colleagues may identify a new species of nematode parasite!

Berland is an advocate of "hands-on" biology. Over the years, his protocols for handling specimens and preparing mounts for microscope work have been circulated among hundreds of students and workshop participants around the world. He has now published a small monograph on the subject. In addition to his research, Berland is well known as being an enthusiastic and motivated teacher. He warns students that science is not about the answers one finds in textbooks; it is about questions, as one quickly learns when one starts to read the literature. His advice is; reflect, be curious and do not take "no" for a "no". Keep this in mind and you may find, as Berland has, that your scientific career is filled with serendipitous moments.

You are invited! Two guest lectures ...

Guest lecture: Microbial molecular ecology of Antarctic soil biotopes
Speaker: Professor Don Cowan, Univ of the Western Cape, South Africa
When and where: Friday 21 September, 13:15 in Auditorium 101, Jahnebakken 5

The Dry Valleys of Eastern Antarctica, which constitute one of the few regions of the continent not covered by glacial ice, are one of the harshest environments on Earth. Over the past 6 years of field studies, Cowan and his colleagues have demonstrated that both microbial biomass levels and phylogenetic diversity are very much higher than previously believed. [More information](#)



Guest lecture: Thermophile Hunters

Speaker: Dr. Frank Robb, University of Maryland Biotechnology Institute
When and where: Tuesday 25 September 12:30 at the conference locale, Scandic Bergen City

Thermophiles 2007 is testing a model for Public Outreach that [Christa Schleper](#) experienced at a conference abroad last year. The model involves a public lecture and an open poster session; the latter is aimed particularly at schools as students are encouraged to "interview" a scientist about their poster. Dr. Frank Robb will be the guest speaker. Skolelaboratoriet has managed the relationship with local schools and over 100 participants have already signed up. Some places are reserved for BIO faculty and students! [More information](#)



Siste nytt fra verden rundt oss

Nytt nordisk strategisk og langsiktig forskningssamarbeid

En meget viktig beslutning, kommenterer NordForsk-direktør Liisa Hakamies-Blomqvist. Jeg er glad for at de nordiske landene har ledere som innser forskningens strategiske betydning og våger å satse langsiktig. By the summer of 2008 The Nordic Council of Ministers will prepare a proposal on how to enhance excellence in research in the Nordic region. The proposal will also present strategies for the development of stronger network collaborations between National Centres of Excellence in research and between research and industry in the region. Special priority will be given to areas such as innovation, the climate, energy & environmental issues, and welfare & health research. [Les mer.](#)

Norsk-svensk samarbeid innen nordområdesatsningen

For å kunne videreutvikle det svensk-norske samarbeidet i nordområdene best mulig, har de to landene utarbeidet et felles referansedokument. Dette er ment å være et arbeidsredskap for norsk næringsliv, Exportrådet (Sverige), Innovasjon Norge og begge lands myndigheter. Kunnskap er navet i nordområdestrategien, og begge sider legger stor vekt på utvikling av samarbeid mellom regionenes universitets- og forskningsmiljøer. I dokumentet sees det også på videre samarbeidsmuligheter om infrastrukturprosjekter i regionen, om muligheter innen gruvedrift og ikke minst på de tre spesifikke områdene telemedisin, marin bioprospektering og romindustri. [Les hele dokumentet her.](#)

Veien til fremragende nordisk forskning

Kvaliteten på nordisk forskning skal løftes til globalt toppnivå. Forskere, næringslivsrepresentanter og beslutningstakere fra hele Europa diskuterte hvordan, på en internasjonal konferanse om nordisk forskningspolitikk i Åbo 27-28 august 2007. [Les mer.](#)

Evaluering: norsk utviklingsforskning er for styrt

En internasjonal komité har evaluert norsk utviklingsforskning. Et oppsiktsvekkende råd er at forskerne bør holde brukerne på en armlengdes avstand. Evalueringen ble presentert på et møte i Forskningsrådet onsdag 13. september. [Les mer ..](#)

Genenes gåte: Ny bok av Hessen og Lie

Politikk og ideologi. Dag O. Hessen og Thore Lie har i boken om *Genenes gåte* (Spartacus, 2007) fortalt om gjennombruddet for genetisk vitenskap fra Johann Gregor Mendels eksperimenter med erterblomster i 1860-årene frem til moderne DNA-sløyd og sauen Dolly i vår egen tid. Innledningen er noe omstendelig, men snart blir man trukket med i en strøm som driver raskere og raskere. Genetikken er en spesiell vitenskap, ikke bare fordi den er så ny at utviklingen av den stort sett ligger badet i dokumentarisk lys, men den har åpenbart en rekke politiske forutsetninger og ideologiske effekter som gjør den til et krysningspunkt for en serie ulike interesser. Les omtale i [Morgenbladet ..](#)

Forskning: utlysninger, nye satsinger og prosjekter

FP7-Capacity Programme: Infrastructures

Food-Agriculture and Biotechnology: INFRA-2008.1.1.2.7: enabling investigation of impacts of food on health, including developing of tools for cross compatibility and networked usage, of standards and codes of practice.

Environment (including Climate Change)-

§ *INFRA-2008-1.1.2.21: Establishing an European e-Infrastructure for earth system's understanding and modelling.*

§ *INFRA-2008-1.1.2.24: integrating, for efficient polar research, existing observation and monitoring stations in both Arctic and Antarctic regions.*

Call is expected to be published by 15 Nov with deadline on 15 Feb. The call will be published [here](#) **NB!!! Integrating activities skal omfatte forskningsinfrastruktur på Europeisk skala og det forventes derfor kun en søknad per tema, men det blir konkurranse mellom de ulike prioriterte temaene. Det er viktig at de norske miljøene undersøker om det allerede er etablert konsortier innenfor de ulike temaene og forsøker å bli med som partner på disse, eller hvis det er aktuelt, tar initiativ til å danne passende konsortier. NFR organiserer et informasjonsmøte i Oslo 10. oktober om utlysningen ([påmelding](#) innen 26. september).**

Miljøene oppfordres på det sterkeste å starte arbeidet med å danne passende konsortier så raskt så mulig.



Call for ESF research networking programme

The European Science Foundation announces a Call for Proposals for its Research Networking Programme (all disciplines). This is a networking activity (research is not funded) bringing together existing nationally funded research activities over four to five years, thereby addressing a major scientific issue or a science-driven topic of research infrastructure at the European level. The Call and the submission form are available [here](#). The deadline for submission is 30 October 2007

Call for proposals: European centre for arctic environmental research ARCFAC

European research teams are offered free access (including travel) to the Ny-Ålesund Research Infrastructure in Svalbard, Norway. [Read more](#)

FRESH opportunities for post-docs!

Fish Reproduction and Fisheries (FRESH), which is a COST Action (European COoperation in the field of Scientific and Technical Research), invites applications for funding support for a Short-Term Scientific Mission (STSM), which aim to strengthen existing scientific networks between institutions

by allowing scientists to visit an institution or laboratory in another COST member state to learn a new technique or to take measurements using instruments and/or methods not available in their own institution/laboratory. Applicants should apply to stay a minimum one week (5 working days), and a maximum of 3 months. Deadline for applications: 15 October 2007 at 17.00 h Brussels time.

[More information.](#)

Ny doktorgrad

PhD lecture Howaida Faisal Abdelrahman

Howaida Faisal Abdelrahman wil give a lecture over self chosen title:

"African Savannah: Is it managed or natural ecosystems"

Evaluation committee: Professor Hilary Birks, Professor Tor Tønsberg (Bergen Museum)

Dato: 17 sept 2007, Tidspunkt: 14.15, Sted: Aud. 2, Realfagbygget

Avsluttende mastergradseksamen

Silje Seim: Testing an image analysis technique on larval and juvenile fish

Silje Seim holder onsdag 19. september avsluttende presentasjon av sin mastergradsoppgave i Water Resources and Coastal management.

Tittel på oppgaven: Testing an image analysis technique on larval and juvenile fish. A case study of morphometric development of Atlantic cod larvae (*Gadus morhua*) started on rotifers or zooplankton

Veileder: Audrey Geffen. Sensor: Håkon Otterå

Tid og sted: Mandag 17. september kl. 10:15, Konferanserom B, Bergen Vitensenter (2. etasje)

Alle interesserte velkommen!

Anne-Christine Knag: Effects of produced water from the offshore oil-industry on cod

Anne Christine Knag holder onsdag 19. september avsluttende presentasjon av sin mastergradsoppgave i Water Resources and Coastal management.

Tittel på oppgaven: Produced water from the offshore oil-industry: Does it have any long-term effects on the reproductive performance of Atlantic Cod (*Gadus morhua*)?

Veileder: Audrey Geffen. Sensor: Anders Mangor-Jensen. Bisitter: Ivar Hordvik

Tid og sted: Onsdag 19. september kl. 10:15, Seminarrom 328C1, Institutt for biologi, HIB

Alle interesserte velkommen!

Kjartan Eduard: Reproductive tactics of the male Two Spotted Goby

Kjartan Eduard holder torsdag 20. september avsluttende presentasjon av sin mastergradsoppgave i Marinbiologi.

Tittel på oppgaven: Size dependent seasonal plasticity in the reproductive tactic of the male Two Spotted Goby, *Gobiusculus flavescens* (Fabricus).

Veiledere: Anne-Christine Utne Palm og Per Jakobsen. Sensor: Geir Johnsen (Rådgivende biologer)

Tid og sted: Torsdag 20. september, kl. 10:15, Seminarrom 328C1, Institutt for biologi, HIB

Alle interesserte velkommen!

Info fra studieseksjonen

Kurs i universitetspedagogikk? Åpent for alle vitenskapelig ansatte!

Universitetspedagogikken ved UiB har den siste tiden gjennomgått en grunnleggende omlegging.

Pedagogisk basiskompetanse oppnåes i dag gjennom fullføring av ulike moduler som til sammen teller 20 studiepoeng. Basismodulen, som teller 10 stp, er obligatorisk. Ut over dette velger deltakerne

ulike påbygningsmoduler, som enten er normert til 2,5 stp eller til 5 stp. Listen over mulige påbygningsmoduler varierer noe fra semester til semester. Kursene er åpne for alle ansatte i

vitenskapelige stillinger ved UiB. Det er et ønske å etablere et nærmere samarbeid med de ulike fakultetene ved UiB, slik at vi i framtiden kan tilby "skreddersydde" moduler for bestemte

fag/fakulteter, eller bistå med andre tjenester som måtte være ønskelig. Dette vil vi komme tilbake til.

Mer informasjon og oversikt over de forskjellige kursene som tilbys kan dere finne på hjemmesiden til Program for universitetspedagogikk: <http://www.uib.no/plf/>

Faglig – pedagogisk dag – 1. februar 2008- Forslag til tema for forelesinger

Så er det tid for å planlegge forelesinger for faglig pedagogisk dag som avholdes 1. februar 2008. Faglig pedagogisk dag har vært ett årlig arrangement siden 1992, og skal gi lærerne mulighet til å bli oppdatert på utviklingen innen sine fag og det som skjer på forskningsfronten. Instituttet bestemte for et par år siden at bidrag fra BIO skal gå på omgang mellom forskergruppene slik at man over noen år har vært innom de fleste fagfeltene ved instituttet. Studieseksjonen vil derfor ta kontakt med noen av de forskergruppene som står for tur og be dem bidra på faglig-pedagogisk dag. Hvis det er noen som ønsker å ta "sin tur" nå så ta kontakt med studie@bio.uib.no.

Informasjon til fagpersoner under besøk i eksamenslokale

Noen av dere skal snart være ansvarlig for skriftlige eksamener (utsatt eksamen/"konteeksamen"), og informasjonen nedenfor informerer om hvordan man skal forholde seg til skriftlige eksamener i forberedelsen til eksamen og i eksamenslokalet:

"Fagpersoner skal stå oppført med navn og telefonnummer på eget skjema som følger med oppgavekonvolutten i eksamenslokalet. Det må være mulig å kontakte fagpersonen(e) på telefon i hele det tidsrommet eksamen pågår, spesielt i de tilfeller hvor fagpersonen ikke besøker lokalet. Når fagpersonen ankommer lokalet skal vedkommende først henvende seg til hovedvakten, legitimere seg og signere skjemaet som er sendt ut med eksamensoppgaven og som spesifiserer hvem som skal møte i lokalet. Hovedvakten kan instruere fagpersonen om hvor kandidatene i det gjeldende emnet sitter, hvis de sitter samlet.

Fagpersonen skal kun svare på spørsmål som er av faglig art og som gjelder eksamensoppgaven. Fagpersonen skal ikke ta stilling til spørsmål om administrasjon av eksamen. Spørsmål av en administrativ art skal avklares med de ansvarlige på det enkelte institutt/fakultet.

I lokalet må fagpersonen opptre diskret og med lav stemmebruk slik at kandidater i andre emner ikke blir forstyrret.

Fagpersoner som ønsker å bruke mobiltelefon må gjøre dette utenfor eksamenslokalet for å unngå forstyrrende uro. Skru alltid av ringelyden på egen mobil før du går inn i lokalet.

Vær oppmerksom på at henting av besvarelser i eksamenslokalet ikke er tillatt. Etter endt eksamen blir besvarelsene samlet inn av hovedvakten. Hovedvakten leverer besvarelsene til Utdanningsavdelingen, Langes gate 1, hvor de blir klarert for utlevering. Her kan de hentes etter kl 9 neste virkedag. Dersom det er spesielle forhold som gjør at henting direkte i lokalene er absolutt nødvendig, kan det søkes om dispensasjon fra hovedregelen. Henvendelsen rettes til Utdanningsavdelingen, hvor hvert enkelt tilfelle vil bli vurdert av personalet som er ansvarlig for forholdene i eksamenslokalet.

Kontaktpersoner angående avvikling av eksamen er: Guro Akre 5558 8854 guro.akre@ua.uib.no, Marit Midtun 5558 2141 marit.midtun@ua.uib.no, Anne Gjelsvik 5558 2134 anne.gjelsvik@ua.uib.no

Gjesteforelesninger, seminarer og kollokvier

Seminar: Marine Sponges and their Associated Ecosystems



A seminar on marine sponges will be hosted by the Marine Biodiversity Group (BIO) on **Thursday the 20th of September in Vitensenteret – VILVITE, conference room B**

The presentations will be given by international and national specialists and students. A wide range of sponge related topics will be covered, including taxonomy/systematics, ecology of sponge grounds, sponge associated microorganisms and microbial processes, development, reproductive biology, speciation and zoogeography.

- 10.00 Opening - Hans Tore Rapp (Dept of Biology, Univ. of Bergen)** An introduction into taxonomy and biology of marine sponges. Sponges and sponge research in Norwegian and NE Atlantic waters (ecology of sponge grounds, distribution, recruitment and the role of sponge associated microorganisms)
- 11.00 Maja Adamska (SARS)** Developmental signaling in sponges – almost like in vertebrates
- 11.30 Michelle Klautau (Univ. Fed., Rio de Janeiro, Brasil)** Reproduction, development and recruitment of calcareous sponges
- 12.00** Lunch break
- 12.45** “Guided tour” in the sponge lab at Høyteknologisenteret (we will meet outside the canteen)
- 13.00 Paco Cardenas (Dept of Biology, Univ. of Bergen)** Taxonomy and Phylogeny of astrophorid sponges in the Atlantic Ocean
- 13.30 André Linhares Rossi (Univ. Fed., Rio de Janeiro, Brasil)** Molecular Phylogeny and morphological evolution of the genus *Clathrina* (Porifera, Calcarea)
- 14.00 Friederike Hoffmann (Max Planck Inst. for Marine Microbiology, Bremen)** Aerobic and anaerobic microbial processes in sponges
- 14.30 Regina Radax (Univ. of Vienna and Univ. of Bergen)** Diversity, Phylogeny and Function of sponge-associated prokaryotes
- 15.00** Coffee
- 15.15 Michelle Klautau (Univ. Fed. Rio de Janeiro, Brasil)** Sponge speciation in the western Atlantic
- 15.45** General discussion, closing remarks
- The seminar is open and we hope to see you there!** For further information or questions please contact **Hans Tore Rapp** at **55584413** or hans.rapp@bio.uib.no

Konferanse om forskningssamarbeid med Sør-Afrika

31. oktober - 2. november arrangerer Forskningsrådet og National Research Foundation of South Africa (NRF) en internasjonalt konferanse basert på Forskningssamarbeid mellom Sør-Afrika og Norge. [Les mer..](#)

Living with climate change: are there limits to adaptation?

The Tyndall Centre for Climate Change Research and the University of Oslo, with the support of the Global Environmental Change and Human Security (GECHS) project, announce a two day international conference to be held on 7 and 8 of February 2008 at the Royal Geographical Society in London on the subject of "Living with climate change: are there limits to adaptation?" Theme 1: Adapting to thresholds in physical and ecological systems, Theme 2: The role of values and culture in adaptation, Theme 3: Governance, knowledge and technologies for adaptation. Further details [here](#)

Samhandling og innovasjon i norske regioner

Norsk institutt for by- og regionforskning (NIBR) arrangerer i samarbeid med Norges forskningsråd en nasjonal konferanse om regional foresight 29.-30. oktober 2007. Konferansen vil sette fokus på behovet for å styrke og fornye regionale strategiprosesser. [Les mer](#)

SOOS planning workshop

The SCAR/SCOR Oceanography Expert Group ([web page](#)) will participate at the Southern Ocean Observing System (SOOS) Planning workshop which will be held in Bremen, Germany on the 1-3 October 2007. The goal of the meeting is to develop a plan for a (post IPY) Southern Ocean Observing System (SOOS). Further details [here](#)

Utdanningsmuligheter

Floating University in the subtropical and temperate Northeast Atlantic

Berth space offered for 8 young scientists.

Deadline for Application: November 15, 2007. [More](#)

2007-2008 Earth System Science Student Professional Development Opportunity

The MS PHD'S PDP provides professional development experiences to facilitate the advancement of undergraduate and graduate underrepresented minority students who are committed to achieving outstanding Earth system science careers. [More](#)

Euro-Mediterranean Center on Climate Change (CMCC) - School on Climate Extremes

21-25 January 2008: Lecce, Italy

Deadline for Application: 15 September, 2007. [More](#)

Marie Curie Training Course: "The Human Dimension of Global Environmental Change – Participation in Earth Governance"

18 -27 February 2008: Berlin, Germany

Deadline for Application: 15 October, 2007. [More](#)

IPY NGPR Symposium for the New Generation of Polar Researchers

4-11 May 2008: Colorado Springs, CO, USA

The NGPR Symposium will bring together early-career polar investigators from the physical, biological and social sciences, humanities, engineering and other relevant fields to cultivate cross-disciplinary interactions during the 2007/2008 International Polar Year (IPY). Travel and on-site costs for the invited participants will be defrayed by a grant from the U.S. National Science Foundation. [More](#)

Placement positions in environmental research and conservation



We would like to inform you that *Archipelagos, Institute of Marine and Environmental Research of the Aegean Sea*, has available placement positions during autumn 2007 and 2008, on the following fields related to environmental research and conservation:

- Marine research and conservation
- Flora Research & Conservation
- Research on Bird Populations
- Agronomic Research & Seed Bank Projects
- Chemical assessment of environmental impacts
- GIS analysis of marine & terrestrial biodiversity data
- Drawing flora & fauna of the eastern Aegean
- Graphic Design for environmental conservation
- Production of DVDs & animations on the environment of the Aegean Sea
- Environmental photography & filming in the region of eastern Aegean Sea
- Applications of renewable energy sources
- Administrative Assistant

PLACEMENT DURATION

Individual trainees can join in placements of duration 3 - 12 months

For the participation of groups, placements are of more flexible duration (from few weeks to several months - varying according to the characteristics and interests of the group)

ARCHIPELAGOS CAN ALSO PROVIDE FOR THE PARTICIPANTS

Organising of transport from airport and ferry ports on the island of Ikaria (location of host organisation research base)

Full board accommodation for groups and individuals on long term placements
Guidance of a tutor who will be responsible for monitoring the progress of the work placement/field course

Tutoring, final evaluation and final report

Greek or English Language Courses

At the end of the training period, the participants receive certifications from *Archipelagos*, *IMERAS*, about the experience gained and results and outcomes of the project

Placements can take place in the framework of the Lifelong learning (Leonardo, Erasmus) or other relevant programmes. For more information you may wish to visit our website at www.archipelago.gr



Nye artikler

Ian Mayer: må ål svømme langt for å kjønnsmodne?

van Ginneken V, Dufour S, Sbaihi M, Balm P, Noorlander K, de Bakker M, Doornbos J, Palstra A, Antonissen E, Mayer I, van den Thillart G 2007. Does a 5500-km swim trial stimulate early sexual maturation in the European eel (*Anguilla anguilla* L.)? *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY* 147: 1095-1103

Abstract: The catadromous European eel (*Anguilla anguilla* L.) undertakes a 6000-km spawning migration from its freshwater habitats to the Sargasso Sea. In large Blazka swim tunnels of 127 l, the physiological effect of such a prolonged swimming performance on sexual maturation in adult female eels was investigated. Two groups of eels were placed in swim tunnels for 173 days, one group was able to swim at 0.5 body lengths/second (Swim group) covering a distance of c. 5500-km over the experimental period, and one group kept in static (End Control group). A control group was sampled at the start of the experiment in order to determine the initial stage of reproductive development (Initial Control group). At the end of the swim trial, the maturation parameters 11-ketotestosterone, pituitary levels of LH and plasma levels of estradiol were higher (although not significantly) in the Swim compared to the End Control group. In addition, no significant differences were observed in most measured morphometric and reproductive parameters, including eye-index, gonadosomatic index, hepatosomatic index, and plasma levels of vitellogenin, cortisol and melanophore-stimulating hormone (MSH). Also, pituitary levels of both MSH, and adrenocorticotrophic hormone (ACTH) were unaffected. In contrast, the oocyte diameter was found to be significantly higher in the Swim compared to the End Control group. Based on these observations we conclude that a period of prolonged swimming might be a physiological stimulus necessary for the onset of maturation in the European eel.

Albert Imsland, Gunnar Nævdal, Torild Johansen & Sigurd Stefansson: hemoglobintype og vekst hos torsk

Imsland AK, Foss A, Nævdal G, Johansen T, Stefansson SO, Jonassen TM 2007. New haemoglobin genotypes in Atlantic cod, *Gadus morhua*: Possible relation with growth. *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY* 147: 955-960

Abstract: In a preliminary study, 121 individually tagged juvenile Atlantic cod (*Gadus morhua*) were classified according to their haemoglobin genotypes into four groups, i.e., two main haemoglobin genotypes [Hb-I(1/2), Hb-I(2/2)] and two sub-types [Hb-I(1/2b), Hb-I(2/2b)], and reared for 3 months at 10 degrees C, 13 degrees C and T-step (fish reared at 16 degrees C and then subsequently moved to 13 and later to 10 degrees C). Overall growth rates across temperatures were 10% and 19% higher in the Hb-I(2/2b), Hb-I(1/2b) sub-types compared to corresponding Hb-I(2/2) and Hb-I(1/2) main types, respectively. Individual growth rate trajectories varied between the genotypes at all temperatures studied. Our study indicates that under certain environmental conditions higher growth in the two sub-types compared to the main genotypes could be expected. This may indicate difference in other

physiological characters not studied here, but seen in previous studies, i.e., oxygen affinity and competitive performance.

Hans Christian Ingerslev: aktivering av immungener hos laks etter parasittangrep

Kania P, Larsen TB, Ingerslev HC, Buchmann K 2007. Baltic salmon activates immune relevant genes in fin tissue when responding to *Gyrodactylus salaris* infection. DISEASES OF AQUATIC ORGANISMS 76: 81-85

Abstract: Immune mechanisms in 2 strains of *Salmo salar* (Baltic salmon from River Ume Alv in Sweden and East Atlantic salmon from River Skjerna in Denmark) infected with the monogenean ectoparasite *Gyrodactylus salaris* were elucidated by molecular tools (real-time PCR). The gene expression in the fins (the preferred microhabitat of the parasite) of the susceptible but responding Swedish salmon was compared to the expression in the fins of the highly susceptible and non-responding East Atlantic salmon. Experimental infections confirmed that both the Swedish and the Danish salmon allowed initial propagation of the parasite on the fins for a few weeks. Baltic salmon subsequently activated a response from Day 28 and limited the parasite population to a few parasites per host within the following weeks. In contrast, the Danish salmon did not respond and experienced a continuing increase in the parasite load during the same period, which reached several hundreds of parasites per host. RNA was isolated from fins of the 2 salmon strains during the course of infection and subsequent real-time PCR showed an increased expression of INF gamma, Mx and MHC I genes in Baltic salmon fins during large segments of the response phase. No upregulation of these genes could be detected in susceptible salmon. No increase in immunoglobulin genes was seen in any of the fish strains, which supports the notion that antibodies are not involved in the response. Further, the work suggests that cellular factors could at least partly contribute to the anti-parasitic response in Baltic salmon.

Anita Rønneseth, Heidrun Wergeland, Margunn Devik & Eirin Fausa Pettersen: dødelighet etter IPN-virus hos laks

Rønneseth A, HI Wergeland, M Devik, Ø Evensen & EF Pettersen 2007. Mortality after IPNV challenge of Atlantic salmon (*Salmo salar* L.) differs based on developmental stage of fish or challenge route. Aquaculture 271: 100-111

Abstract: The mortality of Atlantic salmon parr and post-smolts was studied after experimental challenge using a virulent strain of infectious pancreatic necrosis virus (IPNV). No mortality was obtained in parr challenged in freshwater, but challenge three weeks after seawater transfer resulted in high mortalities (up to 64%) in cohabitants compared to the intraperitoneally injected fish (up to 19%). No non-infected control fish died. In parr, challenge was performed using intraperitoneal injection (ip) or bath, but even after stressing the fish three times by lowering the water level no mortality occurred. The parr had low virus titres and almost undetectable levels of anti-IPNV antibodies five weeks post-challenge. Post-smolts of the same origin as the parr and challenged by ip injection and/or cohabitation with the same batch of virus, died after challenge. The surviving post-smolts had low virus levels and low antibody levels. Clinically diseased post-smolts had higher IPNV titres in internal organs and virus was detected in all fish that died during the experiment. The IPN virus re-isolated from challenged fish had the same VP2 gene virulence motif as the virus used for challenge. The mortality profiles show that the cohabitant challenge is a reliable challenge model for post-smolts. The parr and post-smolts were fed four different diets, but no difference in mortality was observed between the diet groups. The feed consumption varied between the diets, and fish fed with immunostimulant had eaten less than the others and did not grow well. As there were no differences in mortalities between the diet groups, this verifies the stability of the challenge model for post-smolts.

Sven Leininger: svampe-spesifikke bakteriesamfunn

Thiel V, S Leininger, R Schmaljohann, F Brümmer & JF Imhoff 2007. Sponge-specific bacterial associations of the Mediterranean sponge *Chondrilla nucula* (Demospongiae, Tetractinomorpha). Microbial Ecology 54: 101-111

Abstract A stable and specific bacterial community was shown to be associated with the Mediterranean sponge *Chondrilla nucula*. The associated bacterial communities were demonstrated to be highly similar for all studied specimens regardless of sampling time and geographical region. In

addition, analysis of 16S rDNA clone libraries revealed three constantly *C. nucula*-associated bacterial phylotypes belonging to the *Acidobacteria*, the *Gamma*- and *Deltaproteobacteria* present in sponge specimens from two Mediterranean regions with distinct water masses (Ligurian Sea and Adriatic Sea). For the first time, candidate division TM7 bacteria were found in marine sponges. A major part (79%) of the *C. nucula*-derived 16S rDNA sequences were closely related to other sponge-associated bacteria. Phylogenetic analysis identified 14 16S rRNA gene sequence clusters, seven of which consisted of exclusively sponge-derived sequences, whereas the other seven clusters contained additional environmental sequences. This study adds to a growing database on the stability and variability of microbial consortia associated with marine sponges.