

Agenda

Attending:

Petra Fransson (chair)
Peter Bozhkov
Christina Dixelius
Magnus Karlsson
Sanjana Holla
Carol Kälin
Charles Melnyk
Mattias Thelander (coordinator without right to take part in decisions)
Eddy Véléz (coordinator without right to take part in decisions)

Not attending:

Panagiotis Nikolaou Moschou
Dimitrios Kokoretsis

§ 1 Meeting is opened (PF)

- a) Eddy Véléz was appointment as secretary.
- b) Christina Dixelius was appointment as adjutor.
- c) Last meeting protocol was approved.
- d) No additional questions.

§ 2 Final reports from concluded activities (decision)

- a) *Course, Visualize your science,(4 ECTS; PNG0073), autumn 2021:* Mattias reported that the course was organized by Andreas Dahlin from Visualize your Science AB, on behalf of the Organism Biology Research School. The course ran part-time from Sept 21st to Nov 26th. with 20 students registered (all students from SLU). Thus far, 13 students have passed the course and three students dropped the course. The budget spent was 93 000SEK out of the budgeted 100 000SEK. The course evaluation is still pending, so the steering group will wait to approve the report.
- b) *Course, How to write and publish a scientific paper (4.5 HEC), spring 2021:* The course ran from March 10th – June 16th via Zoom. Four students registered all from SLU had registered Marisol Sanchez-Garcia was the course organizer. So far, two students passed the course, as their papers were submitted for publication. The other two are pending. The course received good evaluations, with the general opinion about the course as 4.7 out of 5. The total amount spent was 44 460SEK out of the 80 000SEK originally budgeted. The steering group approved the report.

- c) *Course, Pathobiome and Plant Immunity (PFG0079: 5 credits or PFG0080: 2 Credits), spring 2021:* Eddy reported that this course organized by Salim Bourras and ran from June 7th to the 16th via Zoom. There were a total of 21 students enrolled full-time and 23 part-time, from 28 institutions and 17 countries (four students from SLU). All the students passed the course. The course received very good evaluations, with the general opinion about the course as a 4.8 out of 5. The total amount spent was 68 500SEK out of the 70 000SEK originally budgeted. The steering group approved the report.
- d) Workshop, "Picture a Scientist", autumn 2021: The activity was jointly organized with the SLU University Library, which purchased a one year license of the film for on-line viewing, as well as the NJ and VH faculties. Eddy reported that the panel discussion took place on the 23rd of September. About 128 people participated in the discussion via zoom, which included 42 students (12 belonged to OB). The final money spent was 48 702SEK out of the original 50 000SEK. Both Gesa Hoffmann and Dimitrios Kokoretsis were compensated for their time spent organizing the event. A letter of approval for Dimitrios' case is attached. The steering group approved the report.
- e) *Course, Multivariate Methods For Ecologists (PNS0074; 4,5 hp), autumn 2021:* Eddy reported the course was organized by Ulf Grandin and Sara Sandström from Department of Aquatic Sciences and Assessment and was a joint activity by the different research schools. The course was full and was given on-line and via Zoom from 25 October to 12 November 2021. Again, they had more applicants (42) than places (30), so they had to say no to several students. In the end, 29 students attended the course (9 SLU). All students passed the course (but two are pending final deliverables). The course received good evaluations 4.3 out of 5. The final budget was 61 271. The amount originally budgeted was 65 000. The steering group approved the report.
- f) The workshop has been organized by Eva Krab (FSw) and Eddy and it took place on Nov. 12th via Zoom. This year we also had the participation of the SLU Alumni association and SLU Career, as well as six speakers from industry and government agencies (Ireland, Germany, and Sweden). We had 30 students that signed up, but only 21 attended. The activity received a good evaluation with a 4.1 out of 5. The total money spent was 13 556SEK. Our share of the activity is 6 778 SEK. The original amount budgeted was 10 000. The steering group approved the report.

§ 3 Progress reports from ongoing and planned activities (info)

a) RNAseq

Course, Analysis of High Throughput Sequencing RNA-Seq Data, autumn 2021: Mattias reported that the course (organized by Nicolas Delhomme and Amrei Binzer-Panchal) was running from Nov 29th to Dec. 17 via Zoom. The course is divided in 3 modules, with 23 students registered for the 1st module and 39 students in the compulsory module. Since the course is still running, there is no final report yet.

b) Confocal microscopy

Protocol, Organism Biology Steering committee meeting
7 Dec 2021 10.00-12.00 via Zoom

Course, Confocal Microscopy, 5 ECTS (PNS0138), spring 2022: Mattias reported that the course (organized by Adrian Dauphinee) will run in the spring 2022. This decision has been approved by the faculty and is to be paid with money from autumn 2021.

c) Understanding and coding R

Course, Understanding and coding the R language, 2 ECTS, autumn 2021: Eddy reported that this course is organized by the Ecology-basics and applications research school, in cooperation with Focus on Soils & Water and Organism Biology (Helena and Mat). The course ran for 5 intensive days in Nov/Dec via Zoom. According to Helena, there was no final report as of yet.

d) Mycology

Course, Mycology – its basics and applications (4 ECTS), autumn 2021: Eddy reported that this course was organized by Marisol Sánchez-García, Georgios Tzelepis, and Eddy from the Forest Mycology and Plant Pathology department. The lectures organized included members from Mykopat, Molecular Sciences, Uppsala University, and key note speakers from UC Davis, Vanderbilt University, and The University of Crete. The course ran from November 29th to December 6th via Zoom. A total of 20 students had signed up for the course, but only 12 participated (3 from SLU). All the 12 students passed the course. The course received a very good evaluation with a 4.7 out of 5. The final money spent was 99 500SEK out of the original 100 000SEK budgeted for the course. Since this report was complete, the steering group approved the report.

e) Network activity suggested by BioC PhD students

Mattias reported that this was a new activity initiated by PhD students from the plant biology department and that Petra had sent out an email to the steering committee on the 29 November 2021, with an explanation of the activity. Essentially, the suggested activity is a PhD conference for all PhDs in Bio Center, where the senior PhD students present their work as in a conference. Also, there will be lectures and exercises on how to give oral presentations in real life and via Zoom, and a social gathering afterwards for networking. The activity will be jointly arranged with the research school Focus on Food and Biomaterials (Molecular Sciences), and our cost will be ca 20000SEK. A letter stating this decision is attached to this protocol, as well as more detailed information about the “PhD Bio Center Connectivity Conference” and email regarding the discussion.

§ 4 Compensation to Adrian Dauphinee for cancelled Enzyme Regulation course (info)

Petra reported that Adrian will be reimbursed for the time that has been put into planning and organizing the “Enzyme regulation” course that was cancelled. This has been discussed with Focus on Food and Biomaterials, and seemed reasonable to all. The money is to be taken from the budget for the cancelled course. Mattias and Galia will sort out the internal invoicing straight away. A letter stating this decision is attached to this protocol.

§ 5 Application to FUN for continued funding from 2022 and onwards

Petra reported that the new application for the Organism Biology Research School period (2022-2025), which was signed by the department heads at the Bio Center, had been submitted to the registrar.

§ 6 Coordinators, 2022 and onwards (provided that funding application is granted)

Petra reported that the Mattias Thelander will step down as a coordinator. Pär Ingvarsson (head of the Department of Plant Biology) has appointed Katarina Landberg, as Mattias replacement. This will take effect January, 1st 2022. Petra will contact the faculty to see if formal approval is needed for the initial two months that Katarina will serve. Then, formal approval by the new steering committee members will take place in March. Eddy (Heriberto) Véléz will continue as the coordinator from the Forest Mycology and Plant Pathology department. See § 8, for further comments regarding funding.

§ 7 Steering group, 2022 and onwards (provided that funding application is granted)

Petra reported on the new Organism Biology Steering Committee, which had been included in the new application for 2022-2025:

- Sanjana Holla, PhD student representative from the Molecular Sciences Department, has decided to step down in March, since she begins her last year as a PhD student. A new PhD student from the Molecular Sciences department will be chosen to replace Sanjana.
- Dimitrios Kokoretsis, PhD student representative from the Plant Biology Department, will step down. Pär Ingvarsson (head of the Plant Biology Department) has suggested Martina Leso as Dimitrios' replacement.
- Panagiotis Nikolaou Moschou from the Plant Biology Department, will step down and he will be replaced by Mattias Thelander (Plant Biology).
- Magnus Karlsson and Petra Fransson, from the Forest Mycology and Plant Pathology department, will step down and they will be replaced by Marisol Sánchez-García and Salim Bourras.
- Christina Dixelius (Plant Biology), Charles Melnyk (Plant Biology), and Peter Bozhkov (Molecular Sciences) will remain as members of the new steering committee.

The sitting steering committee supports the suggestion that were stated in the new application.

§ 8 How to handle “resting period” in beginning of 2022?

Petra reported that an email from the faculty had been received and that planning funds (85000SEK) have been granted for January and February 2022. The committee formally approved the money to be used for coordinators salary (i.e., Katarina Landberg and Eddy Véléz), since as Mattias mentioned, it is unclear at this moment (until March 2022) what activities to fund.

Christina Dixelius, current deputy chair, will call and chair the first meeting in March 2022. Then, the new committee for 2022 will formally elect a new chair and approve new members.

Protocol, Organism Biology Steering committee meeting
7 Dec 2021 10.00-12.00 via Zoom

§ 9 Additional questions

Petra reported on the letters that will be appended to this protocol regarding the operative decisions that she had taken in November 2021, related to (i) the PhD BioCenter Connectivity Conference in February; (ii) the approval of compensation for Dimitrios' participation in organizing the "Picture a Scientist" activity; (iii) the approval of compensation for Adrian's time organizing the cancelled course "Advances in Enzyme Regulation".

Petra will send an email to the PhD council regarding the new PhD student representative.

Petra formally thanked all the committee members for their work and dedication during the last four years.

§ 10 Next meeting

A tentative meeting date has been scheduled for Tuesday, 8th of March, 2022.

Attachments:

- a) November decisions Organism Biology signed
- b) Project PhD Biocenter Conference 2022
- c) Email: Reservera medel för forskarskoleaktivitet i februari 2022.
- d) Application for funding from 2022 and onwards


Heriberto Véléz (Eddy), secretary

29-Dec.-2021
Date & Place

Electronic signature

Christina Dixelius, adjutor

Date & Place

Signature page

This document has been electronically signed
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Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

**Department of Forest Mycology and
Plant Pathology**

Petra Fransson

Decision

12/07/2021

SLU ID: SLU.[Enter the registry
number here]

Decisions Organism Biology Research School

During November 2021 the following operative decisions were made for the research school:

One new suggestion for an activity was proposed by the PhD students jointly in BioCenter (se proposal, attached). The idea was discussed by the coordinators Mattias, Eddy and Galia Zamaratskaia at Focus on Food and Biomaterials, Molecular Sciences, and with the chair for Organism Biology. 'The 'PhD Biocenter connectivity conference' will take place on February 18, 2022, and money has been reserved at the Faculty (se e-mail to Sanita Fröman, faculty economist, attached) from the funds for the cancelled course 'Advances in Enzyme Regulation'. I approved a preliminary budget from Organism Biology of up to 20000 kr.

The workshop 'Picture a Scientist' which ran on 23rd of September was organised by Eddy and Dimitrios Kokoretsis at Plant Biology. To compensate for the time Dimitrios put into the organisation I approved a compensation with 5740 kr, to be paid into his research project account. Mattias will make the transfer.

The cancelled course 'Advances in Enzyme Regulation' was organised by Adrian Dauphinee at Molecular Sciences. To compensate for the time he invested I decided after discussions with the coordinators to compensate him 20000 kr for his time (1/3 of the cost, shared with Focus on Food and Biomaterials). This will be taken from the cancelled course budget.

2021-12-07

Petra Fransson
Chair person Organism Biology research school

Project “PhD Biocenter Connectivity conference”

Introduction

On the 18th of February 2022, we are planning to host “PhD Biocenter Connectivity conference”. At this event final year PhD students from all departments at the Biocenter will present their research to the other PhDs. As the conference will focus on presentation quality, the PhD audience will provide constructive feedback on each presentation that the final year students can use to improve for the actual defense. The conference will finish off with a catered dinner and some games. The purpose of the Connectivity conference is to increase the connectivity between the departments and for PhDs to share their research with other PhDs from different departments.

Planning

The PhD Biocenter Connectivity conference will be on Friday the 18th of February. It will be like a real conference with an abstract book and excellent opportunity for the PhD students to network with other departments.

13:00-14:00- Introduction

- Welcome words to the conference
- Lecture about Presentation skills with focus on defense and scientific events. Small tips and tricks what to think about when you are presenting for a live crowd, online or a combination of both.
- Quick word from head of department summarizing what their department expects from us when we defend.

From 14.00 to 17.00- Project presentations

- All final year PhD students present their research in 15min with 5 min question session (where 6 final year PhD students already agreed to present).
- Audience will also write constructive feedback on the presentations
- Three breaks are planned for the participants to further network, enjoy fika and presenters can collect feedbacks written by the audience.

The dinner would start between **18.00 -18.30**, and finish with social activity games until **22.00**.

The abstract book will contain presentation tips and tricks, a short guide to all the important date/criteria to fulfil during the final year and of course, the presentation abstracts and dates for the defenses.

Objective and aim

The goals of this conference is for final year PhD student to practice their defense presentation in front of a large spectrum audience. By only having PhD students attend the conference, the environment will be friendly and comfortable and the presenter will get valuable feedback from other scientist outside their field. By announcing dates for all the different defenses, we also hope to generate more interest in attending defenses from other departments. This event will be the occasion for students to exchange scientific knowledge,

learn about different projects from Biocenter and stimulate inspiration for cross-disciplinary projects, collaborations or Postdocs.

This event would also have a dinner and night social-event to encourage students to meet in an informal frame and create a bigger PhD community.

If the event were successful, the final goal would be to make this conference a Biocenter annual tradition.

Estimation

We currently are looking for funding to make the “PhD Biocenter Connectivity conference” an actual conference. The estimated cost for this event would be:

		Per people	For 50 people	Overall	Total
3 Fika	Coffee + Snack	150kr	7500kr		
Dinner (provided by Restaurang Logen)	Catering	200kr	10000kr		
	Non-Alcohol drinks	180kr	9000kr		
	Staff (450kr/h)			2250kr	
Room Booking (Lennart Kennes sal) (600kr/h)				2400kr	
Printing Abstract		100kr	5000kr		
Speaker presentation				500kr	
Total		630kr/ppl	31500kr	5150kr	36650kr

The total budget would be per person around 630kr, which would covering the cost of fika's, dinners and printing of abstract book. Taking in consideration the room booking fee, and the speaker, the total estimation would be around **40000kr**.

This event in Biocenter would reunite PhD students from the Plant biology, Forest Mycology and Plant Pathology and Molecular sciences departments, which represent approximately 65 PhD.

From: [Mattias Thelander](#)
To: [Sanita Fröman](#)
Cc: [Galia Zamaratskaia](#); [Petra Fransson](#)
Subject: Reservera medel för forskarskoleaktivitet i februari 2022
Date: 29 November 2021 11:49:33

Hej Sanita,

(Cc: Galia, Petra)

Forskarskolorna "Organismbiologi" och "Focus on Food and Biomaterials" kommer gemensamt att finansiera en doktorandaktivitet kallad "PhD Biocenter connectivity conference" den 18 februari nästa år. Skolorna kommer vardera att bidra med upp till 20 000 kronor. Eftersom vi inte kommer att hinna processa fakturor etc. kopplade till aktiviteten innan nyår så ber vi dig nu att reservera 20.000 kr från vardera forskarskolas höstbudget att redovisas senast sista mars, 2022. Eventet är ett färskt initiativ från doktoranderna på biocentrum och därmed inget vi tidigare har budgeterat för, men eftersom vi blivit tvungna att ställa in en planerad gemensam kurs (Advances in Enzyme Regulation) kommer det ändå att rymmas inom våra respektive budgetar för hösten 2021.

Både Johan Meijer och Petra Fransson är informerade om ovanstående och ställer sig positiva. Låt mig veta om du har några frågor eller behöver ytterligare information.

MVH,

Mattias Thelander

Ansökan om att bedriva forskarskoleverksamhet 2022-2025 Research school application round 2022-2025

Namn på forskarskola / Name of research school: Organism Biology (OB)

Sökande(n) (namn, titel, institution(er)) / Applicant(s) (name, title, department(s)):

Petra Fransson, associate professor, Department of Forest Mycology and Plant Pathology (chairperson of current OB steering committee)

Christina Dixelius, professor, Department of Plant Biology (vice chairperson of current OB steering committee)

Peter Bozhkov, professor, Department of Molecular Sciences (member of current OB steering committee)

Magnus Karlsson, senior lecturer, Department of Forest Mycology and Plant Pathology (member of current OB steering committee)

Charles Melnyk, associate senior lecturer, Department of Plant Biology (member of current OB steering committee)

Panagiotis Nikolaou Moschou, associate professor, Department of Plant Biology (member of current OB steering committee)

Mattias Thelander, associate professor, Department of Plant Biology (current OB coordinator)

Heriberto Véléz, researcher, Department of Forest Mycology and Plant Pathology (current OB coordinator)

Tillstyrkt av prefekt(er) (namn) / Approved by head of department(s):

Sara Hallin, professor and head of department, Department of Forest Mycology and Plant Pathology

Pär Ingvarsson, professor and head of department, Department of Plant Biology

Vadim Kessler, professor and head of department, Department of Molecular Sciences

Syfte och mål för forskarskolan / Aim and outcomes for the research school:

Max 500 tecken (inkl. blanksteg)/Maximum 500 characters (incl. spaces)

OB aims to:

- offer high quality courses within the broad field of organism biology with special emphasis on common methodology and state of the art techniques

- provide information and tools to help the students make decisions about their future career in science and related areas
- promote interdisciplinary collaborations and increased interaction between research groups, departments, universities as well as between science and society

Målgrupp och dess ungefärliga omfattning (tex doktorander inom kluster, institutioner och forskarutbildningsämnen) / **Target group and approximate size** (number of PhDs in clusters, departments or research subjects)

Max 500 tecken (inkl blanksteg)

OB targets all SLU PhD students interested in plants, microorganisms and their interactions with each other and/or the environment. The core target group consists of around 65 BioCenter PhD students including all students at Plant Biology and Mykopat, and biology-oriented students at Molecular Sciences. We also expect 50+ PhD students from other SLU units and national/international institutes to join one or more activities per year.

Exempel på lärarresurser (namn, institution) / Suggested teachers (name, department):

Max 500 tecken (inkl blanksteg) / Maximum 500 characters (incl. spaces)

Plant Biology: Adrien Sicard, Anders Hafren, Anna Westerbergh, Charles Melnyk, Christina Dixelius, German Arias, Jens Sundström, Martha Rendón-Anaya, Stefanie Rosa, new lecturer in plant physiology.

Mykopat: Georgios Tzelepis, Jiasui Zhan, Karina Clemmensen, Magnus Karlsson, Malin Elfstrand, Marisol Sanchez-Garcia, Salim Bourras, three new professors being recruited.

Molecular Sciences: Adrian Dauphinee, Alyona Minina, Jerry Ståhlberg, Peter Bozhkov, Tomas Linder, Galia Zamaratskaia.

Planerade interna samarbeten (tex. forskarskolor, plattformar) **och extern samverkan / Planned internal collaboration** (e.g. research schools, platforms) **and external collaboration:**

Max 1000 tecken (inkl blanksteg) / Maximum 1000 characters (incl. spaces)

As evident from the suggested activity range, OB will continue to collaborate closely with Ecology, FoSW, FFB and other NJ research schools. We will also join forces with the S-faculty research school SILVA and the SLU plant breeding network to offer new courses with focus on sustainable development, and with SLU Forest damage center (Skogsskadecentrum) to offer a workshop on tree/plant defence. Ongoing collaborations with SciLifeLab and SLUBI on bioinformatics-oriented courses will be extended. We will continue to invite prominent experts from universities around the world to teach on many subject courses. Non-academic external organisations will contribute to activities focused on career planning and stress management. Finally, we aim to strengthen our Nordic scientific network by exploring the possibility to co-organize activities with organizations such as the North European Forest Mycologists and the Doctoral Programs in Sustainable Use of Renewable Natural Resources (AGFOREE) and Wildlife Biology Research (LUOVA) at the University of Helsinki.

Planerade interdisciplinära aktiviteter/Planned interdisciplinary activities:

Max 500 tecken (inkl blanksteg) / Maximum 500 characters (incl. spaces)

Many activities are interdisciplinary in a broad sense as they provide skills and knowledge from more than one traditional subject area. In addition, some activities are interdisciplinary in a more traditional sense:

- Annual workshops focused on e.g. sustainable development and equal opportunities
- Postdoc and career workshops
- The courses To Communicate Science, Visualize Your Science, and Human Driven Environmental changes and their effects of organism biology - Eco-Evolutionary dynamics

På vilka sätt kommer forskarskolan att beakta hållbar utveckling / How will the research school consider sustainable development?

Max 500 tecken (inkl blanksteg) /Maximum 500 characters (incl. spaces)

The OB commitment towards sustainable development will be strengthened:

- Most activities will comprise clearly identifiable elements of sustainable development
- Some activities will have sustainable development as the main focus (see activity list below)
- Sustainable development will be a recurrent theme for annual workshops
- Sustainable development will be considered when format of activities is decided (travelling, distance teaching, etc.)
- Coordinators and teachers will be encouraged to take the EPU sustainable development education for course leaders

På vilka sätt kommer forskarskolan att beakta jämställdhet-lik villkors aspekter / How will the research school consider aspects of gender equality and equal opportunities?

Max 500 tecken (inkl blanksteg) /Maximum 500 characters (incl. spaces)

OB will continue to strive for equal gender representation among coordinators, steering committee members and teachers. Equality aspects will be actively considered when OB activities are planned. In addition, OB has the ambition to continue to offer activities with equality aspects specifically in focus. An example is the panel discussion based on the movie “Picture a Scientist” which OB co-organized together with the SLU University library and the equal opportunities officer in autumn 2021.

Befintliga forskarskolor: Vilka förändringar planeras jämfört med tidigare verksamhet (beakta tex. tidigare SWOT analys) / On-going research schools: What changes are planned compared to previous activities (consider e.g. previous SWOT analysis)?

Max 500 tecken (inkl blanksteg) /Maximum 500 characters (incl. spaces)

- New collaborations with the forest faculty research school SILVA, the SLU plant breeding network, and SLU Forest damage center.
- Increased focus on sustainable development and equal opportunities.
- More frequent meetings with PhD students and supervisors to identify needs and wishes, and get them more involved in the planning of activities.
- Encourage participation of non-PhD students in different activities to increase networking and exchange with post docs.

Nya forskarskolor: Hur positioneras denna forskarskola jämfört med befintliga forskarskolor / New research schools: How is this research school positioned compared to existing research

schools?

Max 500 tecken (inkl blanksteg))/Maximum 500 characters (incl. spaces)

Not applicable

Övrigt ni vill kommentera / Other comments:

Max 2000 tecken (inkl blanksteg))/Maximum 2000 characters (incl. spaces)

The OB activity program has a clear emphasis on state-of-the-art subject/methodology courses and short workshops focused on generic competences asked for by our core members. Examinations are planned for all courses, often as individual assignments forcing students to apply acquired skills and knowledge on their own research. Courses focused on generic skills and methods often bring members with different backgrounds together to create an interdisciplinary atmosphere which has proven very productive. OB offers several activities related to career planning and societal interactions including annual workshops, careers outside academia workshops, short workshops on How to become a post doc and the course To communicate science.

OB strives to engage the best available teachers for any given activity. Main organizers and lecturers are often recruited among younger scientists as they have proven motivated and willing to put in what is required for a good outcome. When suitable, we often invite teachers from other parts of SLU, Sweden and the world to assure quality and provide an outside perspective.

In summary, OB will continue to offer improved coordination between departments, a mean to secure a critical mass of students for courses, a trimmed organization making the launching of activities simple and cost-effective, routines for quality assurance, and increased interactions across subject and department barriers. Preliminary, the departments at BioCenter suggest that OB is managed by the following team from 2022 and onwards:

Steering committee: Christina Dixelius (Plant Biology), Charles Melnyk (Plant Biology), Mattias Thelander (Plant Biology), Martina Leso (Plant Biology, PhD student), Marisol Sánchez García (Mykopat), Salim Bourras (Mykopat), Carol Kälin (Mykopat, PhD student), Peter Bozhkov (Molecular Sciences) and Sanjana Holla (Molecular Sciences, PhD student).

Part time coordinators: Heriberto Véléz (Mykopat), Katarina Landberg (Plant Biology).

Planerade kurser och aktiviteter samt preliminär kostnad per aktivitet

Fler rader kan vid behov infogas i tabellen. Ange typ av aktivitet tex kurs (K), seminarium (S), workshop (WS), övrigt (M), intern samverkan (I), extern samverkan (X). Ge kortfattade beskrivningar av aktiviteter (ca 2-4 rader). Inkludera samtliga påslag i aktivitetskostnaderna, om det är oklart vilken institution forskarskolan ska ligga under kan en schablon på 60% användas. English translation is found at the end of the document.

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
Year 1 (2022)			
Planning/info meeting	M, I	Afternoon meeting in spring on campus to plan the coming year's activities, for all OB PhD student and supervisors.	4

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
Annual workshop	WS, I, X	Two-day spring meeting in conference facility focused on how to incorporate sustainable development goals in own research and future career. Also an important networking event and a chance to make inventories of wishes and needs of members.	120
Understanding and coding the R programming language	K, I	Basic knowledge in R programming language and tools for programming, processing data and analyses. With Ecology and FoSW schools.	30
How to become a postdoc	S, I, X	1-day WS with information about where and how to apply for funding, in cooperation with Swedish research councils Formas and VR, the union (SULF), and several post docs, tailored for PhD students in Natural Sciences. With other NJ schools.	6
Careers outside academia	S, I, X	1-day WS with information about how to pursue a career outside of academia, in cooperation with SLU alumni & the Job coaches of Career Services at SLU. With other NJ schools.	6
To communicate science	K, I, X	How to plan and perform an effective communication using different methods and channels, incl. individual assignments, group exercises, discussions, feedback and guidance by professional journalists, communicators and scientists used to communicate with media. With other NJ schools and SLU division of planning.	20
Thesis summary writing workshop	WS, I	1-day WS with information about how to write a PhD thesis summary, including legal issues, writing inspiration, advice and discussions on "best practices". With other NJ research schools.	6
Mobility support	M, X	Limited funding available to support participation in course activities organized by other university/companies	40
RS coordinator meetings	M, I	Monthly scheduled meeting to discuss synergies of research school activities and future collaborative activities	0
Visualize your science	K, X	Hands-on course covering how to use software for producing figures, graphs, making posters, etc., to visually convey your research more effectively to both peers and the general audience.	100
Analysis of high throughput sequencing RNA-seq data	K, X	A comprehensive course covering both theory and practical aspects of RNA sequencing. Lectures, case study and computer exercises. With SLUBI and SciLifeLab.	100
Frontiers in post-genome studies (lectures and	K, I	Dual module course where first module covers cutting-edge theory and methods in chemical biology while second module allow students to integrate acquired skills and knowledge into their own research through work with a brief research proposal. With FFB school.	40

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
grant writing workshop)			
Quantitative real-time PCR	K	Basics of the qPCR theory and practice, and the MIQE guidelines essential for designing, performing and interpreting quantitative experiments in a reliable way.	100
Practical skills in sequence analysis	K	Introductory course covering basic concepts and tools to analyse DNA and protein sequences. Lectures and exercises in a mixed format.	45
Community profiling by sequencing	K, X	Practical and theoretical laboratory based course in high-throughput sequencing of fungal- and prokaryote communities.	100
Plant disease epidemiology – from theory to application	K, X	Different thematic sessions focusing on the main aspects of invasion biology, how invasion can be identified and what can be done to counteract establishment or emergence of new diseases in both agriculture and forestry.	85
Human Driven Environmental changes and their effects of organism biology - Eco-Evolutionary dynamics	K, I	Different thematic sessions focusing on the main aspects of human interactions with the environment and the impacts that these interactions have on the microorganisms living in these environments. With forest faculty school SILVA.	50
		totalt för året:	852
Year 2 (2023)			
Planning/info meeting	M, I	Afternoon meeting in spring on campus to plan the coming year's activities, for all OB PhD student and supervisors.	4
Annual workshop	WS, I, X	Two-day spring meeting in conference facility focused on what you as a PhD student can do to promote gender equality and equal opportunities in your research and future career. Also an important networking event and a chance to make inventories of wishes and needs of members.	120
Understanding and coding the R programming language	K, I	Basic knowledge in R programming language and tools for programming, processing data and analyses. With Ecology and FoSW schools.	30

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
How to become a postdoc	S, I, X	1-day WS with information about where and how to apply for funding, in cooperation with Swedish research councils Formas and VR, the union (SULF), and several post docs, tailored for PhD students in Natural Sciences. With other NJ schools.	6
Careers outside academia	S, I, X	1-day WS with information about how to pursue a career outside of academia, in cooperation with SLU alumni & the Job coaches of Career Services at SLU. With other NJ schools.	6
To communicate science	K, I, X	How to plan and perform an effective communication using different methods and channels, incl. individual assignments, group exercises, discussions, feedback and guidance by professional journalists, communicators and scientists used to communicate with media. With other NJ schools and SLU division of planning.	20
Thesis summary writing workshop	WS, I	1-day WS with information about how to write a PhD thesis summary, including legal issues, writing inspiration, advice and discussions on "best practices". With other NJ research schools.	6
Mobility support	M, X	Limited funding available to support participation in course activities organized by other university/companies	40
RS coordinator meetings	M, I	Monthly scheduled meeting to discuss synergies of research school activities and future collaborative activities	0
Visualize your science	K, X	Hands-on course covering how to use software for producing figures, graphs, making posters, etc., to visually convey your research more effectively to both peers and the general audience.	100
Analysis of high throughput sequencing RNA-seq data	K, X	A comprehensive course covering both theory and practical aspects of RNA sequencing. Lectures, case study and computer exercises. With SLUBI and SciLifeLab.	100
Confocal microscopy	K, I	Course covering both theoretical and practical aspects of confocal microscopy. Lectures, hands-on exercises, literature studies, discussions, assignments. With FFB school.	67
How to write and publish a scientific paper	K, I	Compiling a manuscript for scientific peer review to be submitted to an international journal. Including lectures, supervised commenting & editing. Submitted manuscript as exam.	70
Forest pathology	K, X	Presentations of important forest pathosystems, detection and identification of causal organisms, general aspects of forest diseases, focus on the use of genomics and experimental approaches on tree – pathogen interactions. Individual studies, lectures and presentations, and field excursions.	85

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
Root-soil-microbe interactions	K, X	A comprehensive overview of beneficial interactions taking place in the root-soil-microbe interface, including mycorrhiza, bacteria, archaea and root nodule symbioses. One week intensive course with invited lecturers, group assignments and discussions, preceded by literature studies.	90
Plant breeding for sustainable development	K, X	Mixed format course focused on how plant breeding can be used to meet global sustainability goals. Course will cover aspects from breeding strategies, via genotyping/phenotyping, to challenges of introducing new varieties on a global market. With the SLU Plant Breeding Network.	110
		totalt för året:	854
Year 3 (2024)			
Planning/info meeting	M, I	Afternoon meeting in spring on campus to plan the coming year's activities, for all OB PhD student and supervisors.	4
Annual workshop	WS, I, X	Two-day spring meeting in conference facility focused on what you as a PhD student can do to promote your future career in academia. Lectures, presentation, discussion and exercises. Also an important networking event and a chance to make inventories of wishes and needs of members.	120
Understanding and coding the R programming language	K, I	Basic knowledge in R programming language and tools for programming, processing data and analyses. With Ecology and FoSW schools.	30
How to become a postdoc	S, I, X	1-day WS with information about where and how to apply for funding, in cooperation with Swedish research councils Formas and VR, the union (SULF), and several post docs, tailored for PhD students in Natural Sciences. With other NJ schools.	6
Careers outside academia	S, I, X	1-day WS with information about how to pursue a career outside of academia, in cooperation with SLU alumni & the Job coaches of Career Services at SLU. With other NJ schools.	6
To communicate science	K, I, X	How to plan and perform an effective communication using different methods and channels, incl. individual assignments, group exercises, discussions, feedback and guidance by professional journalists, communicators and scientists used to communicate with media. With other NJ schools and SLU division of planning.	20
Thesis summary writing workshop	WS, I	1-day WS with information about how to write a PhD thesis summary, including legal issues, writing inspiration, advice and discussions on "best practices". With other NJ research schools.	6
Mobility support	M, X	Limited funding available to support participation in course activities organized by other university/companies	40

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
RS coordinator meetings	M, I	Monthly scheduled meeting to discuss synergies of research school activities and future collaborative activities	0
Visualize your science	K, X	Hands-on course covering how to use software for producing figures, graphs, making posters, etc., to visually convey your research more effectively to both peers and the general audience.	100
Analysis of high throughput sequencing RNA-seq data	K, X	A comprehensive course covering both theory and practical aspects of RNA sequencing. Lectures, case study and computer exercises. With SLUBI and SciLifeLab.	100
Frontiers in post-genome studies (lectures and grant writing workshop)	K, I	Dual module course where first module covers cutting-edge theory and methods in chemical biology while second module allow students to integrate acquired skills and knowledge into their own research through work with a brief research proposal. With FFB school.	40
Quantitative real-time PCR	K	Basics of the qPCR theory and practice, and the MIQE guidelines essential for designing, performing and interpreting quantitative experiments in a reliable way.	100
Practical skills in sequence analysis	K	Introductory course covering basic concepts and tools to analyse DNA and protein sequences. Lectures and exercises in a mixed format.	45
Community profiling by sequencing	K, X	Practical and theoretical laboratory based course in high-throughput sequencing of fungal- and prokaryote communities.	100
Mycology	K, X	Central concepts in mycology using state of the art methods. Intensive one week course with lectures, discussions and exercises preceded by literature studies.	80
Plant protection workshop	WS, X	Workshop focused on tree protection. With SLU Forest damage center.	30
		totalt för året:	827
Year 4 (2025)			
Planning/info meeting	M, I	Afternoon meeting in spring on campus to plan the coming year's activities, for all OB PhD student and supervisors.	4
Annual workshop	WS, I, X	Two-day spring meeting in conference facility focused on how to best present your research orally. Lectures, presentation, discussion and exercises. Also an important networking event and a chance to make inventories of wishes and needs of members.	120

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
Understanding and coding the R programming language	K, I	Basic knowledge in R programming language and tools for programming, processing data and analyses. With Ecology and FoSW schools.	30
How to become a postdoc	S, I, X	1-day WS with information about where and how to apply for funding, in cooperation with Swedish research councils Formas and VR, the union (SULF), and several post docs, tailored for PhD students in Natural Sciences. With other NJ schools.	6
Careers outside academia	S, I, X	1-day WS with information about how to pursue a career outside of academia, in cooperation with SLU alumni & the Job coaches of Career Services at SLU. With other NJ schools.	6
To communicate science	K, I, X	How to plan and perform an effective communication using different methods and channels, incl. individual assignments, group exercises, discussions, feedback and guidance by professional journalists, communicators and scientists used to communicate with media. With other NJ schools and SLU division of planning.	20
Thesis summary writing workshop	WS, I	1-day WS with information about how to write a PhD thesis summary, including legal issues, writing inspiration, advice and discussions on "best practices". With other NJ research schools.	6
Mobility support	M, X	Limited funding available to support participation in course activities organized by other university/companies	40
RS coordinator meetings	M, I	Monthly scheduled meeting to discuss synergies of research school activities and future collaborative activities	0
Visualize your science	K, X	Hands-on course covering how to use software for producing figures, graphs, making posters, etc., to visually convey your research more effectively to both peers and the general audience.	100
Analysis of high throughput sequencing RNA-seq data	K, X	A comprehensive course covering both theory and practical aspects of RNA sequencing. Lectures, case study and computer exercises. With SLUBI and SciLifeLab.	100
Confocal microscopy	K, I	Course covering both theoretical and practical aspects of confocal microscopy. Lectures, hands-on exercises, literature studies, discussions, assignments. With FFB school.	67
How to write and publish a scientific paper	K, I	Compiling a manuscript for scientific peer review to be submitted to an international journal. Including lectures, supervised commenting & editing. Submitted manuscript as exam.	70

Benämning på aktivitet	Typ av aktivitet	Kortfattade beskrivning av aktivitet	Beräknad kostnad
Plant breeding for sustainable development	K, X	Mixed format course focused on how plant breeding can be used to meet global sustainability goals. Course will cover aspects from breeding strategies, via genotyping/phenotyping, to challenges of introducing new varieties on a global market. With the SLU Plant Breeding Network.	110
Population, quantitative and comparative genomics	K, X	Basic understanding of population genetics, focus on quantitative and comparative genomics to understand differences between geno- and phenotypes and underlying genetic architecture. Course with lectures, literature studies, computer exercises and an individual assignment	83
		totalt för året:	762

År 1-4 Summa	Antal	%
Aktiviteter totalt	65	-
Kurser	36	55
Aktiviteter med interna samarbeten	39	60
Aktiviteter med extern samverkan	38	58

Budget

Summera de beräknade kostnader från tabellen ovan och lägg in i tabellen nedan. *Tjänstgöringsgrad* avser hur stor del av heltidsanställning (i %) som studierektorn kommer avsätta till arbete med forskarskolan.

(tkr)	År 1	År 2	År 3	År 4	Summa
Total tjänstgöringsgrad i % (studierektor(er))*	32,8	32,9	31,8	29,4	
Total kostnad** studierektorer	365	366	354	327	1412
Kostnad för kurser***	670	672	615	580	2537
Kostnad för övriga aktiviteter	182	182	212	182	758
Total kostnad per år	1217	1220	1181	1089	4707

* The calculation of the total service percentage of coordinators is based on the following assumptions: Monthly salary of 38.000 kr, LKP of 52,5%, and OH of 60%.

**We propose that 30% of the total budget for each year is used for coordinator salaries.

*** All activities that give course credits have been defined as courses.

Planned courses and activities, and preliminary costs per activity

More rows can be added to the table if necessary. Enter type of activity, e.g. course (K), seminar (S), workshop (WS), other (M), internal collaboration (I), external collaboration (X). Give brief descriptions of activities (approx. 2-4 lines). Include all surcharges in the activity costs, if it is unclear which department the research school should be under, a standard surcharge of 60% can be used.

Budget

Summarize estimated costs from the table above and enter in the table below. Degree of service refers to the proportion of full-time employment (in %) for the director of studies.

Datum och plats

Underskrift

Namnförtydligande

Datum och plats

Underskrift

Namnförtydligande

Datum och plats

Underskrift

Namnförtydligande

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