

Teacher functions, procedures and tasks; FEBS-SysBio2005

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List of teachers

Aebershold, Alberghina, Alon, Boone, Bruggeman, Cascante, Doyle, Eichelbaum, Eils, Goldbeter, Goryanin, Heinrich, Hohmann, Kell, Kholodenko, Kitano, Klingmüller, Klipp, Kuchler, Kummer, LeNovere, Noble, Reuss, Sauer, Schuster, Snoep, Stelling, Tomita, Van Driel, Wanner, Westerhoff, Wodak.

1. Chair of morning session 'Morning Chair'

The morning session is plenary. It usually consists of 2 talks, a coffee break, 2 talks, a short break, and a discussion session. Talks are 35 minutes, plus 10 minutes discussion (timer will be provided). The Chair should make it clear and ensure that there is a priority for questions from students and make sure that students do ask questions.

The morning discussion session is special in that it should lead to the formulation of approximately 3 key questions, which will then be addressed in the afternoon discussion session by the speakers. These key questions may be of the type: 'Which theoretical tools are needed most urgently for experimental Systems Biology', or 'Should we measure all K_M 's of all enzymes in yeast?'

The Afternoon Chair here serves as assistant to the Morning Chair, noting down these key questions, and handing them to all speakers during lunch such they can prepare to address them during the afternoon discussion session. The Morning Chair has the task of noting down the answers given during the afternoon discussion session and together with the Afternoon Chair reporting the results to the course director, who will ensure that they reach all course participants and supporters.

2. Chair of afternoon session 'Afternoon Chair'

The afternoon session is plenary, with the exception of the 'Black-board Talks', which are four in parallel and *not* chaired (cf. program). After the Black-board talks, the session becomes plenary. It then consists of workshop talks (by a PI; 20 minutes including discussion, each), and short talks (by a student; 15 minutes including discussion, each); numbers and times of these talks vary by the day (cf. program). At the end of the afternoon session there is the afternoon general discussion. Here the teachers (i.e. lecturers plus chair persons) of the symposium will address the questions that were raised in that morning's general discussion. The Afternoon chair has the task of obtaining the questions during the morning's discussion session (in collaboration with the morning chair), to hand them at lunch to the symposium speakers, and to organize the afternoon discussion such that the symposium speakers address the questions.

3. Black board(chalk) teacher

On Sunday and on Monday from 16h30 until 17h10 Black board talks will be held. These are meant to be optimized for teaching. A number of key concepts for Systems Biology in the

area of the Black board talk should be explained, in interactive mode, using a blackboard and chalk, or equivalent. 4 Black-board talks will be held in parallel such that each should be expected to host some 30 students.

Each Black Board teacher should present his Black-board presentation twice, *i.e.* on Sunday and then again on Monday. Each student is expected to be present at 2 out of 4 Black-board talks.

The topics are:

PT-B1	Uri Alon	Motifs and networks
PT-B2	Reinhart Heinrich/Stefan Schuster	Stability and flux mode analysis
PT-B3	Jacky Snoep/Hans Westerhoff	Control analysis and Silicon cells
PT-B4	Jörg Stelling/Frank Bruggeman	Robustness, network identification and engineering

4. Poster committees

The aim is to ensure that every student gets to speak the teachers in her/his symposium. Consequently, each symposium has its poster committee, which consists of all speakers at that symposium plus:

Symposium **Principles**: Alberghina (chair), Westerhoff

Symposium **Tools**: Cascante (chair), Kuchler, Goryanin

Symposium **Unicellular organisms**: Hohmann (chair), Reuss

Symposium **Multicellular/mammalian systems**: Van Driel (chair), Kitano

During the first 50 minutes of each of the three poster sessions, this committee will inspect one third of the posters belonging to their symposium (*i.e.* up to ten posters). At the end of the poster session, *i.e.* from 22h30 – 23h00) in the ‘poster round table’, the poster committee will discuss in a session with all poster presenters of their symposium all the posters they have seen (*i.e.* this will be a non-plenary session with approximately 6 committee members and 10 poster presenters). The chair of the poster committee should organize all of this (with help of the organizing committee). At the end of the third poster session, each poster committee should propose one poster presenter out of their three sessions for the poster award to the Award committee.

5. Award committee *Cascante (chairwoman), Alberghina, Hohmann, Van Driel*

The award committee should ensure that they have one proposal for a poster award for each symposium, plus two awards for the two best presenters of short talks (*i.e.* 6 award proposals in total). The proposals should be conveyed to the course secretary Anneke Koster. At the closing ceremony the members of the award committee should present the awardees with their awards.

6. Lecturers

1. The lecturer presents an oral presentation for 35 minutes, with a subsequent 10 minutes discussion period. This oral presentation should spend 5 minutes to introduce the field/topic, 15 minutes to teach a few important principles relevant to that topics, and then 15 minutes to report on recent work in which the principles are used in generating some excellent Systems Biology. It is important to realize that it is better to teach little well, than all not at all!

2. During or just before the lunch after their presentation, the lecturers will need to obtain some three questions/issues from the corresponding Afternoon Chair, which the speaker should then address briefly during the afternoon discussion session.

3. The lecturer is also asked to be part of the Poster Committee of her/his Symposium (see above), and to inspect all posters belonging to his symposium in an organized fashion, as directed by the text under ‘poster committees (above)’ and by the Chair of that poster committee.

7. Scheme of duties of teachers

	Open.	Principles	Tools	Unicellular	Multicellular	Closing
Time	Saturday	Sunday	Monday (M) & Tuesday first half of morning	Tuesday second half of morning and Wednesday (W)	Thursday	
Morning Chair		Westerhoff	Kuchler	Hohmann	Kitano	
Afternoon Chair	W'ff	Alberghina	Goryanin	Reuss	Cascante	W'ff
Lecturers		Doyle, Goldbeter, Heinrich, , Schuster	Aebershold (M), Boone (M), Wodak (M), Eils (M), Snoep (Tuesday), Kummer, (Tuesday)	Klipp (Tuesday), Reuss (Tuesday), Stelling (Tuesday), Sauer (W), Alon (W), Wanner (W), Tomita (W)	Eichelbaum, Kholodenko, Klingmüller, LeNovere	
Feature speakers	Kell					Noble
Black Board Speakers 4 parallel sessions; Monday repeats Sunday)		1. Alon 2. Heinrich /Schuster 3. Snoep /Westerhoff 4. Stelling /Bruggeman	1. Alon, 2. Heinrich /Schuster 3. Snoep /Westerhoff 4. Stelling /Bruggeman	-	-	
Poster Committee Note: Sunday, Monday and Wednesday evening!		Alberghina (chair) , Doyle, Goldbeter, Heinrich, Schuster, Westerhoff	Cascante (chair) , Aebershold, Boone, Eils, Goryanin, Kuchler, Kummer, Snoep, Wodak	Hohmann (chair) Alon, Klipp, Reuss, Sauer, Stelling, Tomita, Wanner	Van Driel (chair) Eichelbaum, Kholodenko, Kitano, Klingmüller, LeNovere,	
Award Committee						Cascante (chair) , Alberghina, Goryanin, Hohmann, Van Driel