

Organization of lessons

Lesson	Date	Content	Teacher
1	20.9.	organization	Šmarda
2	27.9.	lectures and video	Šmarda
3	4.10.	lectures and video	Šmarda
4	11.10.	lectures and video	Šmarda
5	18.10.	lectures and video	Šmarda
6	25.10.	lectures and video	Šmarda
7	1.11.	lectures and video	Damborský
8	8.11.	lectures and video	Damborský
9	15.11.	lectures and video	Damborský
10	22.11.	lectures and video	Damborský
11	29.11.	lectures and video	Damborský
12	6.12.	lectures and video	Damborský
13	13.12.	lectures, election, discussion	Damborský

Articles	PDF one week ahead of lecture for approval to teacher, who will distribute it to all students, no reviews, recommended are broad authorship journals (Nature, Science, PNAS)
Lectures	15-25 min , use Powerpoint, start with introduction of author and group include broader introduction of field - recommended to use other information sources for intro optional is inclusion "Words of the Day" read study material on how to prepare and present a lecture BEFORE preparing your talk
Discussion	without limits, questions: chair + 2 students + teacher + all
Evaluation	after every presentation: 1 student + all + teacher points: 1-3, clarity, formal side, performance, "Words of the Day" at the end of semester - anonymous voting of the Speaker of the Year
Video	at the end of the lesson ~10 min per video, discussion or evaluation all
Absences	maximum two per semester for credits; apologies by e-mail or phone (in advance)
Introduction	each student - name, field of study, research interests

Schedule

	Lecture	Chair	Evaluation
Alcade, Pablo	11.10.		
Alexová, Petra	27.9.	13.12.	
Arguello Martín, Beatriz	27.9.		13.12.
Bayerová, Zuzana	4.10.	6.12.	
Bednář, David	4.10.		27.9.
Ďurech, Michal	18.10.	22.11.	
Ištvánek, Jan	18.10.		11.10.
Jagošová, Jana	25.10.	15.11.	
Kiššová, Miroslava	25.10.		18.10.
Krchňavá, Jitka	25.10.	8.11.	
Lubawy, Jan	11.10.		4.10.
Oralová, Veronika	1.11.		25.10.
Parmová, Klára	1.11.		
Peltanová, Barbora	8.11.		1.11.
Pížová, Kristýna	8.11.	1.11.	
Plucnara, Medard	15.11.		8.11.
Starý, Tomáš	15.11.	25.10.	
Szymona, Zofia	22.11.		15.11.
Šmiřáková, Eliška	22.11.	18.10.	
Špaček, Jan	29.11.		22.11.
Lucie Dobrucká	8.11.		
Veronika Lišková	29.11.	11.10.	
Veselá, Barbora	6.12.		29.11.
Vychodilová, Zdenka	6.12.	4.10.	
Wlostowska, Edyta	6.12.		
Zarbochová, Pavla	13.12.	27.9.	
Ždánská, Jana	13.12.		6.12.

Theory for Lecture Preparation and Delivery

Topic

Suggestions for Effective Lecture Preparation and Delivery

Delivering a Lecture

Delivering an Effective Scientific Lecture

Delivering Effective Lectures

Lectures Preparing and Delivering

Writing and Delivering Lectures

How to Deliver a Winning Lecture

How to Create Engaging Lectures

Using Technology to Enhance Lectures

English Communication for Scientists

Web

<http://www1.umn.edu/ohr/teachlearn/resources/guides/effective/index.html>

<http://teaching.berkeley.edu/bgd/delivering.html>

<http://www.ascb.org/files/0602wicb.pdf>

http://www.reproline.jhu.edu/english/6read/6training/lecture/delivering_lecture.htm

<http://www.tuition.com.hk/lecture.htm>

http://www2.warwick.ac.uk/fac/cross_fac/ias/earlycareer/events/introdtoteaching/lectures/

<http://www.suite101.com/content/how-to-deliver-a-winning-lecture-a210718>

<http://www.suite101.com/content/how-to-create-engaging-lectures-a140767>

<http://www.suite101.com/content/using-technology--to-enhance-lectures-a210486>

<http://www.nature.com/scitable/ebooks/english-communication-for-scientists-14053993>

Videos

Lecturer and topic	Time	Source
Christopher deCharms - Inside the brain	4 min	TED
Richard St. John - Success is a continuous journey	4 min	TED
Sean Gourley - Mathematics of war	7 min	TED
Theo Jansen - Creates new creatures	8 min	TED
Hans Rosling - Global population growth	10 min	TED
Craig Venter - Creating synthetic life	15 min	TED
Al Gore - Averting climate crisis	16 min	TED
James Cameron - Before Avatar ... a curious boy	17 min	TED
Craig Venter - Historical Announcement - Synthetic life	18 min	TED
Bonnie Bassler - How bacteria "talk"	18 min	TED
Anthony Atala - Growing new organs	18 min	TED
Hans Rosling - Let my dataset change your mindset	20 min	TED
Dan Gilbert - Why are we happy?	21 min	TED
Larry Brilliant - Stop pandemics	25 min	TED
Peter Sorger - Computational and systems biology at MIT	28 min	MIT World
Lorey Hood - Systems biology	45 min	MIT World
Phillip A. Sharp - The RNAi revolution	57 min	MIT World
Andrew Endy - The implications of synthetic biology	64 min	MIT World
Stephen Quake - Biological large scale integration	65 min	MIT World
Nobel Lecture by Craig C. Mello - Return to the RNAi world	69 min	Nobel.org
Eric S. Lander - The Human Genome Project	71 min	MIT World
Randy Pausch - Achieving your childhood dreams	96 min	YOU Tube

Web

[http://www.ted.com/talks/christopher decharms scans the brain in real time.html](http://www.ted.com/talks/christopher_decharms_scans_the_brain_in_real_time.html)
[http://www.ted.com/talks/richard st john success is a continuous journey.html](http://www.ted.com/talks/richard_st_john_success_is_a_continuous_journey.html)
[http://www.ted.com/talks/sean gourley on the mathematics of war.html](http://www.ted.com/talks/sean_gourley_on_the_mathematics_of_war.html)
[http://www.ted.com/talks/theo jansen creates new creatures.html](http://www.ted.com/talks/theo_jansen_creates_new_creatures.html)
[http://www.ted.com/talks/hans rosling on global population growth.html](http://www.ted.com/talks/hans_rosling_on_global_population_growth.html)
[http://www.ted.com/talks/craig venter is on the verge of creating synthetic life.html](http://www.ted.com/talks/craig_venter_is_on_the_verge_of_creating_synthetic_life.html)
[http://www.ted.com/talks/al gore on averting climate crisis.html](http://www.ted.com/talks/al_gore_on_averting_climate_crisis.html)
[http://www.ted.com/talks/james cameron before avatar a curious boy.html](http://www.ted.com/talks/james_cameron_before_avatar_a_curious_boy.html)
[http://www.ted.com/talks/craig venter unveils synthetic life.html](http://www.ted.com/talks/craig_venter_unveils_synthetic_life.html)
[http://www.ted.com/talks/bonnie bassler on how bacteria communicate.html](http://www.ted.com/talks/bonnie_bassler_on_how_bacteria_communicate.html)
[http://www.ted.com/talks/anthony atala growing organs engineering tissue.html](http://www.ted.com/talks/anthony_atala_growing_organs_engineering_tissue.html)
[http://www.ted.com/talks/hans rosling at state.html](http://www.ted.com/talks/hans_rosling_at_state.html)
[http://www.ted.com/talks/dan gilbert asks why are we happy.html](http://www.ted.com/talks/dan_gilbert_asks_why_are_we_happy.html)
[http://www.ted.com/talks/larry brilliant wants to stop pandemics.html](http://www.ted.com/talks/larry_brilliant_wants_to_stop_pandemics.html)
<http://mitworld.mit.edu/video/188>
<http://mitworld.mit.edu/video/183>
<http://mitworld.mit.edu/video/401>
<http://mitworld.mit.edu/video/363>
<http://mitworld.mit.edu/video/451>
<http://nobelprize.org/mediaplayer/index.php?id=87>
<http://mitworld.mit.edu/video/25>
http://www.youtube.com/watch?v=ji5_MqicxSo

Positives

communication with audience in the opening - shake hands, excellent body language, slides simple, headlines, opening with question, slides - simple animations, illustrative, funny - fater car / prozac, motto: "Money can n

excellent speaker

excellent gesture + facial gestures, makes jokes, changes in intonation
no science but interesting

mnemotechnic tools with boxes - illustrative + easy to remember, **Swedish accent**

communicates with audience - asks to repeat after him

lecture starts at 6:23

example of good lecturer - entertaining, communication bad news in positive manner

. animations, examples (MATRIX - good to remember)
ot buy hapiness", same intonation all the time

Collection of Lectures

Source

HHMI Biointeractive

UCLA Society and Genetics

Nobel Prize Lectures

Nobel Prize Meeting Lindau Meeting

Web

<http://www.hhmi.org/biointeractive/>

<http://www.socgen.ucla.edu/PastSpeakers.html>

<http://nobelprize.org/mediaplayer/>

<http://www.lindau-nobel.org/LecturesOnline.AxCMS?ActiveID=1173>

Presence BD122

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Alexová, Petra						
Arguello Martín, Beatriz						
Bayerová, Zuzana						
Bednář, David						
Červeň, Jiří						
Fialová, Dana						
Hermanová, Monika						
Ištvánek, Jan						
Jagošová, Jana						
Kiššová, Miroslava						
Krchňavá, Jitka						
Oralová, Veronika						
Parmová, Klára						
Peltanová, Barbora						
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Wlostowska, Edyta						
Zarbochová, Pavla						
Ždánská, Jana						

Grand Finale

1. Election of the "Speaker of the Year" in category "Masters"
2. Rules of Thumb - last repetition
3. Chair duties - last repetition
4. Election of the "Speaker of the Year" in category "Apprentice"
5. *Break*
6. Discussion on the organization of the classes
7. Announcement of the best participants and credits
8. Announcement of the "Speaker of the Year"

names on blackboard, each video 2 min, votes
each student
each student
show points; anonymous voting