

IMAROVING.

Or Charles Willy

THE ENDINA SHIPLING

CILS

CERTIFICATE IN INDUSTRIAL LIFE SCIENCES











Certificate in Industrial Life Sciences (CILS)

General organization of the Certificate in Industrial Life Sciences (CILS)

Courses will be given over a 6 month period by – or in collaboration with – experts from various companies active in the field of Life Sciences.

The topics covered by this certificate include:

- Introduction to the pharmaceutical industry
- Drug discovery
- Drug development and clinical trials
- Biostatistics in drug development
- Quality control management
- Patenting procedures
- Development of predictive medicine
- In vivo models
- Ethics
 - > Once validated, these courses will provide

<u>24 ECTS</u> (European credits)

- > Students will also be required to produce a portfolio on a theme related to the courses that they have received during the CILS program. This personal portfolio will be evaluated by industrial experts (CILS partners, Advisory Board) and will provide 6 ECTS
- > In total the CILS program corresponds to

30 ECTS

Although not a requirement of the CILS program, the students are strongly encouraged to develop their professional skills by undertaking some form of practical training / internship in a non-academic institution in addition to the coursework. The Career Center of the University of Geneva (Career Center; https://www.unige.ch/dife/carriere/) will help in the organization of these traineeships.





CILS program: Courses

The course content of the CILS program is designed to evolve according to the priorities and interests of the companies active in the field of Industrial Life Sciences and will be reassessed every year by the Advisory Board.

Course name	Posponsible	Contributors	Dotation
Course name	Responsible		
1. INTRODUCTION TO THE PHARMACEUTICAL	Pr. L. SCAPOZZA	Dominik HOTZ, Leader Pharma / Life Sciences Consulting, PricewaterhouseCoopers (PwC)	50 hrs 5 ECTS
INDUSTRY		Dr Bodo BAUMEISTER, Partner in PwC's Life	3 20.3
		Sciences Consulting practice in Switzerland	
2. DRUG DISCOVERY AND	Pr. Y. KALIA	Dr Marco Prunotto,	20 hrs
DEVELOPMENT : AN		Principal Senior Scientist, Roche	2 ECTS
INDUSTRIAL PERSPECTIVE			
3. DRUG DEVELOPMENT	Pr. L. SCAPOZZA	Dr Sabine Latour,	20 hrs
AND CLINICAL TRIALS		Director, Global Market Access , Debiopharm	2 ECTS
		Dr Andres McAllister, AM Consulting Dr A. Naik, Senior Consultant, Triskel Integrated Services	
4 DIOCTATICTICS WITHIN	Geneva School of	, J	24 5
4. BIOSTATISTICS WITHIN DRUG DEVELOPMENT	Economics and	Dr Francois Curtin, CEO, GeNeuro SA Dr David Warne, Consultant Biostatistician	24 hrs 2.5 ECTS
DROG DEVELOPIVIENT	Management	Di Bavia Warne, Consultant Biostatistician	2.5 LC13
	(GSEM)		
5. BIOTECHNOLOGY	Pr. J. GRUENBERG	Dr Marie Kosco-Vilbois	20 hrs 2 ECTS
C DEPENDANCE OF NOMICE	D. ICAADTING!	CSO, Novimmune	
6. PERSONAL GENOMICS & PREDICTIVE GENETICS	Pr. JC MARTINOU	Dr Goranka Tanackovic CEO, Gene Predictis	10 hrs 1 ECTS
& PREDICTIVE GENETICS		Pr Daniel Kraus, Innovation Law, University of	11013
		Neuchatel	
7. THEORY into PRACTICE:	Pr. JC MARTINOU	Dr Jurgi Camblong,	10 hrs
CREATING a SUCCESSFUL	11.30 11.31	CEO, Sophia Genetics	1 ECTS
BUSINESS in Life Sciences		, .	
8. QUALITY BY DESIGN	Pr. Y. KALIA	Michael Bowley, Associate VP Technical Support,	20 hrs
(QBD) TO ENSURE		Compliance, Ferring	2 ECTS
PRODUCT QUALITY and		Jérôme Repiton, Director, Global Operational	
OPERATIONAL EXCELLENCE (Lean 6		Excellence, Ferring Julien Boccadoro, Process Development Manager,	Ferring, on site
Sigma)		Ferring	Site
9. PHARMACEUTICAL	Pr. Y. KALIA	Dr Andrew Sadler, Director of the Project	6 hrs
PROJECT AND PORTFOLIO		Management Office and Portfolio management,	0.5 ECTS
MANAGEMENT		Ferring	
10. PATENTING	Pr. L. SCAPOZZA	Pr Daniel Kraus, Innovation Law, University of	20 hrs
PROCEDURES AND	Pr. JC MARTINOU	Neuchatel	2 ECTS [⊕]
INTELLECTUAL PROPERTY		Dr Laurent Miéville, Director, Unitec Dr Kamran Houshang Pour, Patent Expert at Swiss	
		Federal Institute of Intellectual Property (IGE/IPI)	
		Dr Pascal Weibel Head Patent Examination at	
		IGE/IPI	
11. PRE-CLINICAL IN VIVO	Pr. I. RODRIGUEZ	Dr Fabienne CHABAUD	20 hrs
MODELS		Coordinator RESAL Resal module-1 theory course	2 ECTS
12. SCIENCE,	Pr. S. HURST	Pr. Samia Hurst, Director Ethic Institute (IEH2); Dr.	20 hrs
TECHNOLOGIES AND	F1. 3. HUK31	Christine Clavien	
SOCIETY IMPACT		S	2 ECTS
13. PORFOLIO / PROJECT	Dr B. KAUFMANN	Literature report : (i) review on topics proposed	6 ECTS
REPORT	Pharma Sciences	during the lectures with an oral presentation (ii)	
		written summary of insights gained during the site visits to companies	
		-	20 ECTS
1		Total	30 ECTS





INFORMATION on TEACHING MODULES

Course 1. Introduction to the pharmaceutical industry

Lecturer:

Dominik HOTZ (Partner, Leader Pharma / Life Sciences consulting Switzerland @ PricewaterhouseCoopers – PwC - Switzerland)

Dr Bodo BAUMEISTER (Partner in PwC's Life Sciences Consulting practice in Switzerland @ PricewaterhouseCoopers – PwC - Switzerland)

Course Outline:

The objective of this course is to gain an overview of the pharmaceutical & biotech industry, its history, structure and challenges and the organisational structure of pharmaceutical companies. Starting with an overview of the industry, the course will explore some of the most pressing challenges the industry faces. During the final session 2 executives from the industry will discuss the opportunities and challenges they are facing with the participants.

Schedule:

- Day 1: Industry Overview: History, Industry Structure, Challenges and Organisational Structures
- Days 2-4: Challenges Facing the Industry: Case Studies
- Day 5: Meet the Industry

Preparation Needed:

- Day 1: None
- Days 2-4: Prepare Case Studies: 20 hours
- Day 5: Prepare Interview with Industry Executives: 1 hour

(Please note: The date of Day 5 may change depending on the availability of the industry executives participating; any change in the date will be discussed with the participants to ensure that everyone can attend.)

Agenda (may be subject to modifications):

5 one-day sessions, on each session the course will take place between 10am-1pm and 2-5pm. 50 hours in total

Date	Session #	Time schedule	Location
20.02.2018	1	10 :00-17 :00 (including break)	CMU room A04.2906
06.04.2018	2	10 :00-17 :00 (including break)	CMU room A04.3011
20.04.2018	3	10:00-17:00 (including break)	CMU room A04.2906
27.04.2018	4	10 :00-17 :00 (including break)	CMU room A04.2906
25.05.2018	5	10 :00-17 :00 (including break)	CMU room A04.2906

Evaluation mode:

Attestation (delivered based on attendance and active participation during the course

ECTS dotation:

5 credits (ECTS) (including preparatory work)





Course 2. Drug discovery & development: an industrial perspective

Lecturer:

Dr Marco PRUNOTTO (Senior Clinical Development Scientist at Roche, Basel)

Course Outline:

- Strategy and Trends in Pharma today;
- A therapeutic area under the microscope;
- Explore serendipity: phenotypic drug discovery back into the game

Agenda (may be subject to modifications):

5 sessions of four hours each, 20 hours in total

Date	Session #	Time schedule	Location
23.04.2018	1	13 :15-17 :30 (including break)	CMU room A04.2906
26.04.2018	2	13 :15-17 :30 (including break)	CMU room D 60
03.05.2018	3	13 :15-17 :30 (including break)	CMU room A04.2906
14.05.2018	4	13:15:17:30 (including break)	CMU room A04.2906
24.05.2018	5-4	13 :15-17 :30 (including break)	CMU room A04.2906
01.06.2018	5	13:15-17:30 (including break)	CMU room A04.2713

Evaluation mode:

Attestation (delivered based on attendance and active participation during the course)

ECTS dotation:





Course 3. Drug development: regulatory aspects and clinical trials

Lecturers:

Dr Andres McALLISTER (MD, PhD consultant at AM Consulting)
Dr Aarti NAIK (Senior Consultant, Triskel Integrated Services)
Dr Sabine LATOUR (Director Global Market Access at Debiopharm)

Objectives:

To give the students an introduction to the main topics linked to setting up the clinical evaluation of a drug and preparing a dossier to be submitted to regulatory agency for approval.

Course Outline:

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•	Session 1	Introduction (Andrés Mc Allister)
•	Session 2	Pharmacovigilance/safety (Andrés Mc Allister)
•	Session 3	Clinical protocols 1 (Andrés Mc Allister)
•	Session 4	Clinical protocols 2 (Andrés Mc Allister)
•	Session 5	Clinical study/organization 1 (Sabine Latour)
•	Session 6	Clinical study/organization 2 (Sabine Latour)
•	Session 7	Regulatory aspects of drug development and approval (Aarti Naik)
•	Session 8	Regulatory aspects of drug development and approval (Aarti Naik)
•	Session 9	Clinical study/organization 3 (Sabine Latour)
•	Session 10	Clinical study/organization 4 (Sabine Latour)

Endpoints for single modules:

Pharmacovigilance /safety:

The students understand how the clinical safety profile of a drug is defined during premarketing and postmarketing periods

The students understand the aims and the methods of passive pharmacovigilance vs. proactive pharmacovigilance (pharmacoepidemiology).

Clinical study/organization:

The students know how a controlled clinical study is planned, performed and monitored The roles of the different actors, including the hospital pharmacist, are discussed The students know what is meant by Good Clinical Practice (GCP)

The students know what a patient consent form is (informed-consent documents)

Regulatory aspects of drug development and approval: The students will:

- understand the role of regulatory agencies in the development, approval and post-marketing lifecycle of medicines
- learn about fundamental European legislation governing the use of medicinal products in humans
- understand how medicines are approved in Europe and about different licensing procedures available in Europe
- learn about the content and format of a dossier ("marketing authorisation application") necessary for obtaining approval for medicines from regulatory agencies





Agenda:

6 days, 24 hours in total.

Date	Session #	Time schedule	Location
22.02.2018	1&2 (AMcA) – 4hrs	13:30-17:30 (including breaks)	CMU room B02.2526
01.03.2018	3&4 (AMcA) - 4hrs	13:30-17:30 (including breaks)	CMU room D60
05.03.2018	5&6(SL) – 4hrs	13:30-17:00 (including breaks)	CMU room A04.2713
19.03.2018	3&4 (AMcA) - 4hrs	13:30-17:30 (including breaks)	CMU room S4-S5
22.03.2018	7&8 (AN) – 4 hrs	13:30-17:00 (including breaks)	CMU room A04.2713
26.03.2018	9&10 (SL) – 4hrs	13:30-17:00 (including breaks)	CMU room A04.2713
16.05.2018	Wrap-up session (AMcA) – 4hrs	13:30-17:30 (including breaks)	CMU room A04.3018

Evaluation mode:

certificate of attendance and case study presentation during wrap-up session

ECTS dotation:





Course 4. Biostatistics within drug development (Geneva School of Economics and Management – GSEM – University of Geneva)

Lecturers:

Dr François CURTIN (Pharmacovigilance, Corporate Medical Director) **Dr David W. WARNE** (Consultant Biostatistician)

Objectives:

The course offers an introduction to different aspects of biostatistics focusing on how biostatistics is used in drug development and health care research. Students will see how biostatistics can be applied to medical and pharmaceutical research to respond to critical questions of medicine and biology. The course should elicit the interest of students to pursue further study in the field of biostatistics or to consider starting a Professional career in this applied field of statistics.

With six blocks, the course discusses topics of biostatistics, which are key to support the development of new drugs and to explore medical questions from a statistical perspective. The course highlights some statistical issues and underlines the role of applied statistics in drug development and health care research. It builds on the theoretical concepts taught earlier during the Master's programme or during an introductory statistics course focusing on the practical application of biostatistics.

Course outline:

- Module 1: Overview of Biostatistics: we introduce the clinical development of new drugs and describe
 the need for the clinical trial methodology to support this development; some trial examples are
 discussed.
- Module 2: Trial Design I Different experimental designs of clinical trials (parallel, cross-over, cluster, sequential, adaptive trials) are presented with their main statistical methodologies, advantages and issues.
- Module 3: Trial Design II Operational and technical issues related to the performance of clinical trials
 are presented along with the main regulatory texts related to clinical studies. Technical points such as
 randomization of patients, sample size and power calculations are introduced.
- Module 4: Trial Analysis I The analysis of biostatistical data with emphasis on specific estimators and statistical models frequently used in trials, including survival analysis, are presented. The methodology to analyse data in pharmaceutical trial is discussed, as well as related issues such as missing data.
- **Module 5: Trial Analysis II** Analysis, review of data and monitoring of results are discussed. Alternative approaches such as Bayesian models and equivalence/non-inferiority studies are presented.
- Module 6: Other Applications of statistics in medicine: Some other applications of biostatistics useful for the understanding of disease causation (epidemiology), the synthesis of studies (meta-analysis) and the effect of medications over large populations (pharmaco-epidemiology) are discussed.

Agenda (should not be subject to modifications):

6 x 4hrs modules, Wednesday from 08:15 to 12:00, 24 hours in total

Date	Session #	Time schedule	Location
21.02.2018	1	08 :15-12 :00	UniMail, room MS040
07.03.2018	2	08 :15-12 :00	UniMail, room MS040
21.03.2018	3	08 :15-12 :00	UniMail, room MS040
11.04.2018	4	08 :15-12 :00	UniMail, room MS040
25.04.2018	5	08 :15-12 :00	UniMail, room MS040
09.05.2018	6 + EXAM	08 :15-12 :00	UniMail, room MS040

Evaluation mode:

based on continuous assessment + final exam on May 9th

ECTS dotation:





Course 5. Biotechnology development

Lecturers:

Dr Marie KOSCO-VILLEBOIS (CSO, NovImmune)

Dr Amanda PROUDFOOT

Dr Zoe JOHNSON

Dr Nicolas FISCHER

Giovanni MAGISTRELLI

Dr Adrian HAINES

Alexandre CARRON

Dr Vanessa BUATOIS

Dr Robert NELSON

Dr Susana SALGADO-PIRES

Dr Krzysztof MASTERNAK

Dr Walter FERLIN

Course Outline:

- Overview of the steps for drug development (2h, MKV)
- Choosing and validating a protein as a target for pharmaceutical intervention (2h, ZJ)
- Discovering a therapeutic macromolecule with an emphasis on antibodies (monoclonal, bispecific, fragments) (2h, NF)
- Generating a robust toolbox and screening approaches (1h, GM)
- Steps in manufacturing antibodies (1h, KW)
- Manufacturing a drug for market: process validation (1h, AC)
- In vitro and in vivo pharmacology studies (2h, VB)
- Testing samples from clinical trials and the notion of GCP (2h, RN)
- Nonclinical safety: toxicology and other safety considerations before entering humans (2h, SS-P)
- Awaking the immune system to fight cancer by targeting CD47 (2h, KM)
- Targeting chemokines: successes and failures (1h, AP)
- Targeting rare diseases: The orphan story (2h, WF)

Agenda (may be subject to modifications):

6 sessions, 20 hours in total

Date	Speaker	Time schedule	Location
23.04.2018	MKV	08 :30-10 :00	CMU room A04.2706
23.04.2018	ZJ	10 :30-12 :00	CMU room A04.2706
24.04.2018	NF	08 :30-10 :00	CMU room A04.2706
24.04.2018	GM	10 :30-11 :15	CMU room A04.2706
24.04.2018	AH	13 :30-14 :15	CMU room A04.2706
24.04.2018	AC	14 :30-15 :15	CMU room A04.2706
30.04.2018	VB	08 :30-10 :00	CMU room A04.2706
30.04.2018	RN	10 :30-12 :00	CMU room A04.2706
30.04.2018	SS-P	13 :30-15 :00	CMU room A04.2706
02.05.2018	KM	14 :30-16:00	CMU room A04.2706
07.05.2018	AP	09 :00-10 :00	CMU room A04.2910
07.05.2018	WF	10 :30-12 :00	CMU room A04.2910

Evaluation mode:

Written examination - case study analysis / multiple choice

ECTS dotation:





Course 6. Personal genomics & predictive genetics

Lecturers:

Dr Goranka TANACKOVIC (CEO, Gene Predictis)

Pr. Daniel KRAUS (Professor of Innovation Law at University of Neuchatel)

Course Outline:

- Overview of the personalized/precision medicine today (prognostic aspects, diagnostic aspects and therapeutic aspects with challenges and achievements in all three of them, new tendencies) (3h)
- Development of precision medicine product (starting form a case study and analyzing different aspects of product development: idea, proof of concept, clinical validation, regulatory requirements, reimbursement, how to bring such a product to the market) (3h)
- Regulatory and legal aspects (2h)
- Case studies preparation (2h, homework)

Agenda (may be subject to modifications):

3 sessions, 10 hours in total

Date	Session #	Time schedule	Location
15.05.2018	1 (4h) (GT)	08:30-12:00 (including breaks)	CMU room A04.3018
15.05.2018	2 (4h) (GT)	13:00-17:00 (including breaks)	CMU room A04.3018
16.05.2018	3 (2h) (DK)	10:15-12:00 (including breaks)	CMU room A04.3018

Evaluation mode:

Attendance certificate (delivered based on attendance and active participation during the course)

ECTS dotation:





Course 7. Theory into practice: creating a successful business in Life Sciences

Lecturer:

Dr Jurgi CAMBLONG (CEO, Sophia Genetics)

Course Outline:

This course will address various aspects linked to Entrepreneurship such as leadership, project management, financing, marketing & communication. Parallels between PhD and Enterprise projects will be discussed. Reference books, to be read before beginning of this course: **The Lean Startup** by Eric RIES, 2011, Crown Publishing Group (USA) and **Patrick Aebischer** by Fabrice Delay, 2015, Favre Sa.

Agenda (may be subject to modifications):

2 sessions, 10 hours in total, including on-site visit (to be confirmed)

Date	Session #	Time schedule	Location
27.03.2018	1 (4h)	13:30-17:30 (including breaks)	CMU, room A04.2711
28.03.2018	2 (6h)	08:30-17:30 (including breaks)	CMU, room A04.2711

Evaluation mode:

Written examination - case study analysis / multiple choice

ECTS dotation:





Course 8. Quality by Design (QbD) to ensure product quality

Lecturers:

Michael BOWLEY (Associate VP Technical Support, Compliance at Ferring)

Jérôme REPITON (Director Global Operational Excellence at Ferring)

Julien BOCCADORO (Process Development Manager at Ferring)

Course Outline:

The goal of product development is to design a manufacturing process suitable for routine commercial manufacturing that can consistently deliver a product that meets its pre-defined quality attributes and the patient needs. Since quality cannot be tested into products, quality should be built-in by design. This approach is commonly named Quality by Design or QbD.

Topics:

- QBD (3h)
- Regulatory Affairs in the Pharma Industry (4h, with external contributor from Ferring Int. in Denmark)
- Lean 6 Sigma (3h)
- Home readings (estimated to 4h)

Agenda (may be subject to modifications):

3 sessions, 20 hours in total, including homework and on-site visit (exact date to be confirmed)

Date	Session #	Time schedule	Location
16.04.2018	1 (3h, JB)	08:30-11:30 (including breaks)	CMU room A04.2906
18.04.2018	2 (whole day on site, 3h course JR)	08:30-18:30 (including breaks)	@ Ferring's, Saint-Prex

Evaluation mode:

Attendance certificate (delivered based on attendance and active participation during the course)

ECTS dotation:





Course 9. Pharmaceutical project and portfolio management

Lecturer:

Dr Andrew SADLER (Director of the Project Management Office and Portfolio Management Ferring)

Course Outline:

• Pharmaceutical project and portfolio management (to be completed)

Agenda (may be subject to modifications):

2 sessions, 6 hours in total

Date	Session #	Time schedule	Location
09.04.2018	1 (3h)	08:30-11:30 (including breaks)	CMU room A04.2906
10.04.2018	2 (3h)	08:30-11:30 (including breaks)	CMU room A04.2906

Evaluation mode:

Attendance certificate (delivered based on attendance and active participation during the course)

ECTS dotation:





Course 10. Patenting procedures and intellectual property

Lecturers:

Dr Laurent MIEVILLE (Director UNITEC, University of Geneva)

Pr. Daniel KRAUS (Professor of Innovation Law at University of Neuchatel)

Dr Khamran HOUSHANG POUR (Patent expert at Swiss Federal Institute of Intellectual Property)

Dr Pascal WEIBEL (Head Patent Examination, Swiss Federal Institute of Intellectual Property)

Course Outline:

- Basics of intellectual property
- The different ways to submit a patent
- Patenting strategies
- Patents as information source, royalties, copyright, IP, etc
- «Publish or perish» or «publish and perish»: what must be patented or not? How to protect your research? How to maximize your chances to value your findings?
- Basic knowledge of protective rights, and patenting legal aspects
- Technology transfer issues, commercial aspects
 Practical session: each participant brings a real case as exercice.
- Patents in their context

Agenda (may be subject to modifications):

6 sessions, 20 hours in total

Date	Session #	Time schedule	Location
08.03.2018	1 (DK)	13 :30-16 :30	CMU room D60
15.03.2018	2 (DK)	13 :30-16 :30	CMU room A04.3011
29.03.2018	3 (KH)	13 :15-17 :00	CMU room D60
05.04.2018	4 (PW)	13 :15-15 :00	CMU room A04.3011
12.04.2018	5 (KH)	13:15-17:00	CMU room A04.2906
19.04.2018	6 (LM)	13:15-17:00	CMU room A04.2906

Evaluation mode:

Attendance certificate (delivered based on attendance and active participation during the course)

ECTS dotation:





Course 11. Pre-clinical in vivo models

Lecturer:

Dr. Fabienne CHABAUD (CHUV, RESAL)

Course outline:

The course is divided in two parts: part 1 – theory, and part 2 – practice (restricted access). The CILS students will only follow the part 1: theory course (unless previously validated)

Module 1- THEORY:

Introductory Course in Laboratory Animal Science

Course fees: 100 CHF

Agenda (should not be subject to modifications):

1 session over 1 week, 20 hours in total

Date	Time schedule	Location
12.03 - 16.03.2018	08 :30 (08:00 on Monday)-12 :45 (13:45 on Friday)	CMU, room TBD

Evaluation mode:

Exam on last day

ECTS dotation:

2 credits (ECTS)

(Module 2- PRACTICAL COURSE)

Introductory Course in Laboratory Animal Science

The practical course is restricted to students/trainees who have professional activities using laboratory animals. Practical teaching transversal / transferable competences (OPTIONAL)

Course fees: 1'000 CHF





Course 12. Science, technologies and society impact

Lecturers:

Dr. Christine CLAVIEN (Senior Lecturer, IEH2, University of Geneva)

Pr. Samia HURST (Director Institute of Ethics, History, Humanities - IEH2 - University of Geneva)

Course topic:

For centuries, philosophers have discussed the link between ethics and natural facts, especially those that pertain to human nature. These debates are presently taking a new turn, as neuroscience, genetics, evolutionary modeling, and cognitive sciences provide fresh insights into the biological basis of human cognition, emotion, and decision-making. Thus scientific knowledge becomes increasingly relevant to our understanding of moral judgements and behavior. Simultaneously, new discoveries in neuroscience and genetics raise unprecedented ethical issues: e.g. related to the use of technologies and drugs that alter human cognition or character, or related to the relevance of scientific expertise for judicial decision making. In this course, along a series of invited conferences, the students will learn how ethics is transformed by recent scientific knowledge

Learned skills and content

- Transpose knowledge and results from scientific fields to philosophical debates
- Understand the impact of empirical discoveries in genetics, neuroscience and medicine on classical philosophical debates (e.g. free will, mind-body problem)
- Understand the contribution of evolutionary biology and neuroscience to a descriptive understanding of human moral behavior
- Develop a critical view on the relationship between empirical knowledge on humans (e.g. brain mechanisms, behavioral tendencies) and the moral foundation of norms and values
- Explore the practical ethical implications of new scientific and medical discoveries (social implications, legal issues, emergence of new moral responsibilities, etc.).

Agenda (may be subject to modifications):

2 hours weekly on Thursday morning, from 10:15 to 12:00. Due to some conflicts of agenda, the CILS students will only be able to attend the following sessions, and to do homework for missing sessions:

Date	Topic	Time schedule	Location
22.02.2018	Introduction	10 :15-12 :00	
01.03.2018	A few basics on ethics	10 :15-12 :00	
08.03.2018	Measuring moral competences: the example of moral	10 :15-12 :00	
	sensitivity		
22.03.2018	Addiction, a gain of function disease of well being	10 :15-12 :00	
29.03.2018	TBA (topic on black-box medicine)	10 :15-12 :00	
05.04.2018	Easter Break		CMU, Building
12.04.2018	Easter Break		C, room S4-S5
19.04.2018	Determinism and Free will – empirical perspective	10 :15-12 :00	
26.04.2018	Determinism and free will – metaphysical perspective	10 :15-12 :00	
03.05.2018	Genetics, neuro-science and court justice	10 :15-12 :00	
10.05.2018	Ascension Break		
17.05.2018	Neural enhancement and ethical implications	10 :15-12 :00	
24.05.2018	TBA (topic on emotions and values)	10 :15-12 :00	

Evaluation mode: attendance certificate

ECTS dotation: 2 credits (ECTS)





Course 13. Portfolio / Project Report

Responsible: Dr. Béatrice KAUFMANN (Pharmaceutical Sciences, Faculty of Sciences, University of Geneva)

The portfolio is a personal piece of work based on the acquisitions obtained across the various courses and during the site visits. Each student is free to select the topic that attracts his-her interest in Industrial Life Sciences, as well as the way he-she wants to build his-her portfolio.

Three modes of presentation are requested:

- a written report it can also be a media document –
- few slides for a flash talk
- a poster for discussion.

For pedagogical advice, Catherine HUNEAULT or Steve BENNOUN (Unige Career Center) are also available.

Evaluation mode:

- Written report in English by default (other language possible after discussion with the board) that will be evaluated by experts selected by the CILS board
- Oral flash-talk presentation and poster presentation during final CILS symposium
- Evaluation: evaluation by the board of the certificate

ECTS dotation:





One Day Site Visits

Covance (Meyrin) in 2019

Debiopharm(Martigny)May 4th 2018Eclosion Foundation, Biotech Campus(Plan-Les-Ouates)March 20th 2018Ferring Pharmaceuticals(St Prex)April 18th 2018Vacheron-Constantin(Meyrin)April 13th 2018

Dates to be given soon

CILS traineeships

Companies that might offer a 6 month practical training to CILS students

Adipogen International (Epalinges) **Covalab Biotechnology** (Lyon, France) Debiopharm (Lausanne) **Ferring Pharmaceuticals** (St Prex) **Firmenich** (Geneva) Galenica (Bern) **Gene Predictis** (Lausanne) Givaudan (Vernier) Menicon (Geneva) **Merck Serono** (Vevey) **Nestlé Health Sciences** (Epalinges) NovImmune (Geneva)

Pierre Fabre (Saint-Julien-en-Genevois)

Quartz Bio SA (Geneva)
Quotient BD (Eysins)
Shire (Neuchâtel)
Triskel (Geneva)
UBC (Geneva)

For Professional internships, contacts will be provided through the Unige Career-Center platform.





Agenda

Remark: Due to professional agenda of our lecturers, following agenda may be subject to last-minute modifications

modifications									
	19.02.2018		20.02.2018		21.02.2018		22.02.2018		23.02.2018
Monday		Tuesday		Wednesday course 4		Thursday		Friday	
				session 1					
INTRODUCTION CILS progra	m	course 1 session 1		F. Curtin/D.Warne 08:15-12:00		course 12 / S. HURST 10:15-12:00, bat. C, S4-S	c		
room A04.2906		D. Hotz - B. Baumeister		UNIMAIL room MS040		10 .13 12 .00, bat. c, 34 3	3		
		10:00-17:00				course 3			
		room A04.2906				session 1&2 A.McAllister			
						13:30-17:00			
	26.02.2040		27.02.2018		28.02.2018	room B02.2526	01.03.2018		02.03.2018
Monday	26.02.2018	Tuesday	27.02.2018	Wednesday	28.02.2018	Thursday	01.05.2018	Friday	02.03.2016
ivioliday		rucsuuy		Vicunesauy		marsaay		Tituuy	
						course 12 / S. HURST			
						10 :15-12 :00, bat. C, S4-S	5		
						course 3 sessions 3&4			
						A.McAllister			
						13:30-17:00			
	05.03.2018		06.03.2018		07 02 2019	room D60	08.03.2018		09.03.2018
Monday	05.05.2018	Tuesday	00.05.2018	Wednesday	07.03.2018	Thursday	06.03.2016	Friday	09.03.2016
ivioliday		ruesuay		course 4		Thursday		Tituay	
				session 2					
				F. Curtin/D.Warne		course 12 / S. HURST	c		
				08 :15-12 :00 UNIMAIL room MS040		10 :15-12 :00, bat. C, S4-S	J		
course 3						course 10 session 1			
sessions 5&6						D.Kraus			
S.Latour 13:30-17:00 room A04.2713						13:30-16:30 room D60			
13.30 17.00 (0011710 11.2713						100111 200			
	12.03.2018		13.03.2018		14.03.2018		15.03.2018		16.03.2018
Monday		Tuesday		Wednesday		Thursday		Friday	
course 11		course 11		course 11		course 11		course 11	
(08:00) 08:30-12:45		08:30-12:45		08:30-12:45		08:30-12:45		08:30-13:45	
room TBD		room TBD		room TBD		room TBD		room TBD + EXAM	
						course 10 session 2			
						D.Kraus	14.4		
						13:30-16:30, room A04.30)11		
	19.03.2018		20.03.2018		21.03.2018		22.03.2018		23.03.2018
Monday		Tuesday		Wednesday		Thursday		Friday	
monacy		- ucoudy		course 4		····a··oudy			
				session 3					
		Ederica Commun Dietech		F. Curtin/D.Warne		course 12 / S. HURST	_		
		Eclosion Campus Biotech site visit (Plan-Les-Ouate		08 :15-12 :00 UNIMAIL room MS040		10:15-12:00, bat. C, S4-S	5		
course 3			-/			course 3 / session 7&8 / a	A. Naik		
sessions 3&4									
A.McAllister 13:30-17:00						12:20 17:00 404 27	12		
room S4-S5						13:30-17:00 room A04.27	1.5		
	26.03.2018		27.03.2018		28.03.2018		29.03.2018		30.03.2018
Monday		Tuesday		Wednesday		Thursday		Friday	
				Course 7					
				Course 7 J. Camblong		course 12 / S. HURST			
				08 :30-17:30 room A04.	2711	10:15-12:00, bat. C, S4-S	5		
								Good F	riday
course 3		Course 7				course 10 session 3			
sessions 9&10 S.Latour		J. Camblong 13 :30-17:30 room A04.27:	11			K.Houshang Pour 13:15-17:00			
13:30-17:00 room A04.2713						room D60			
	00.5::		00.5::		04.5		0.5		
Monday	02.04.2018	Tuesday	03.04.2018	Wednesday	04.04.2018	Thursday	05.04.2018	Friday	06.04.2018
ivioliuay		Tuesuay		vveunesuay		mursuay		Tiluay	
								course 1	
Factor						course 10 coccier 4		session 2	istor
Easter						course 10 session 4 P. Weibel		D. Hotz - B. Baume 10:00-17:00	ister
						13:15-15:00		room A04.3011	
						room A04.3011			





	09.04.2018		10.04.2018		11.04.2018		12.04.2018		13.04.
Monday course 9	Tue:	sdav		Wednesdav course 4		Thursday		Friday	
A. Sadler	A. Sa			session 4				Vacheron Constantin	
08:30-11:30; room A04.2906		0-11:30; room A04.2906		F. Curtin/D.Warne				site visit (Meyrin)	
				08:15-12:00 UNIMAIL room MS040					
				ON IN INCIDENT TO STATE OF THE		course 10 session 5			
						K.Houshang Pour			
						13:15-17:00 room A04.2906			
	16.04.2018		17.04.2018		18.04.2018		19.04.2018		20.04
Monday	Tue:	sday		Wednesday		Thursday		Friday	
course 8 J. Boccadoro				course 8 J.Repiton					
08:30-11:30; room A04.2906				08:30-18:30		course 12 / Samia HURST		course 1	
						10:15-12:00, bat. C, S4-S5		session 3	
						course 10 / L. Miéville session	26	D. Hotz - B. Baumeister 10:00-17:00	
						13:15-17:00	10	room A04.2906	
				(at Ferring's, in Saint-P	rex)	room A04.2906			
	23.04.2018		24.04.2018		25.04.2018		26.04.2018		27.04
NA day.			24.04.2018		25.04.2018		20.04.2018	Fulder.	27.04
Monday course 5 / M. Kosco-Villebois		se 5 / N. Fischer		Wednesday course 4		Thursday		Friday	
08:30-10:00 room A04.2706		0-10:00 room A04.2706		session 5					
course 5 / Z. Johnson	cours	se 5 / G. Magistrelli 10:30-11	:15 room A04.2			course 12 / Samia HURST		course 1	
10:30-12:00 room A04.2706				08:15-12:00		10:15-12:00, bat. C, S4-S5		session 4	
course 2 room A04.2906	cours	se 5 / A. Haines 13:30-14:15 rd	oom A04.2706	UNIMAIL room MS040		course 2 room D60		D. Hotz - B. Baumeister 10:00-17:00	
session 1		se 5 / A. Carron 14:30-15:15 rd				session 2		room A04.2906	
M. Prunotto						M. Prunotto			
13:00-17:00						13:00-17:00			
	20.04.2042		01 05 001		02.05.2018		02.05.221		00.00
	30.04.2018		01.05.2018		02.05.2018		03.05.2018		04.05
Monday	Tue	sday		Wednesday		Thursday		Friday	
course 5 / V. Buatois 08:30-10:00 room A04.2706								Debiopharm	
course 5 / R. Nelson						course 12 / Samia HURST		site visit (Martigny)	
10:30-12:00 room A04.2706						10 :15-12 :00, bat. C, S4-S5		site visit (ival agily)	
		Labor day							
						course 2 room A04.2906			
course 5 / S. Salgado-Pires				course 5 / K. Masternal		session 3			
13:30-15:00 room A04.2706				14:30-16:00 room A04.	2/06	M. Prunotto 13:00-17:00			
						15:00 17:00			
	07.05.2019		00 0E 2010		00 DE 2019		10 0E 2019		11.05
	07.05.2018	edou	08.05.2018	J.	09.05.2018		10.05.2018	Faidou	11.05
Monday		sday	08.05.2018	Wednesday	09.05.2018		10.05.2018	Friday	11.05
Monday	Tue	sday	08.05.2018	Wednesday course 4	09.05.2018		10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin	Tue	sday	08.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne	09.05.2018		10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue	sday	08.05.2018	wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00	09.05.2018	Thursday	10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue	sday	08.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne	09.05.2018		10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue	sday	08.05.2018	wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00	09.05.2018	Thursday	10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue	sday	08.05.2018	wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00	09.05.2018	Thursday	10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue	sday	08.05.2018	wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00	09.05.2018	Thursday	10.05.2018	Friday	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue:	sday		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040		Thursday Ascent		Friday	
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue:		08.05.2018 15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D.Warne 08:15-12:00 UNIMAIL room MS040	09.05.2018 16.05.2018	Thursday Ascent	10.05.2018 17.05.2018		
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday	Tue:	sday		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040		Thursday Ascent		Friday	
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910	Tue:			Wednesday course 4 session 6 + EXAM F. Curtin/D.Warne 08:15-12:00 UNIMAIL room MS040		Thursday Ascent			
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday	Tue: 0 room A04 2910 14.05.2018 Tue:	s day se 6 / G. Tanackovic		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday Wednesday	16.05.2018	Thursday Ascent Thursday course 12 / Samia HURST			
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday	Tue: 14.05.2018 Tue: 0:3016 0:3016 0:3016 Tue:	sday se 6 / G. Tanackovic 0-12:00		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday	16.05.2018	Thursday Ascent Thursday			
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday	Tue: 14.05.2018 Tue: 0:3016 0:3016 0:3016 Tue:	s day se 6 / G. Tanackovic		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08 :15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04.	16.05.2018	Thursday Ascent Thursday course 12 / Samia HURST			
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906	Tue: 0 room A04 2910 14.05.2018 Tue: 08:30 room	sday se 6 / G. Tanackovic 0-12:00 n A04.3018		Wednesday course 4 session 6 + EXAM period 6 + EXAM period 7 + EXAM period 8 : 15-12 : 00 UNIMAIL room MS040 Wednesday Wednesday course 6 / D. Kraus 10:15-12:00; room A04, course 3	16.05.2018	Thursday Ascent Thursday course 12 / Samia HURST			
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday	Tue: 0 room A04 2910 14.05.2018 Tue: 08:30 room	sday se 6 / G. Tanackovic 0-12:00		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08 :15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04.	16.05.2018	Thursday Ascent Thursday course 12 / Samia HURST			
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Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotte 13:15-17:00	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018		Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 Wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018	Thursday Thursday Course 12 / Samia HURST 10 :15-12 :00, bat. C, S4-S5		Friday	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic 0-12:00 n A04.3018 se 6 / G. Tanackovic 0-17:00	15.05.2018	Wednesday Course 4 session 6 + EXAM F. Curtin/D.Wame 08:15-12:00 UNIMAIL room MS040 Wednesday Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 Wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018	Thursday Ascent Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5	17.05.2018	Friday	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 - room A04.2906 session 4 M. Prunotto	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 Wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018	Thursday Thursday Course 12 / Samia HURST 10 :15-12 :00, bat. C, S4-S5	17.05.2018	Friday	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Ascent Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday course 12 / Samia HURST	17.05.2018	Friday Friday course 1	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2-room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Thursday Course 12 / Samia HURST 10 :15-12 :00, bat. C, S4-S5	17.05.2018	Friday Friday course 1 session 5	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotte 13:15-17:00 Monday Pentecost	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5	17.05.2018	Friday Friday course 1 session 5 D. Hotz - B. Baumeister	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Ascent Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday course 12 / Samia HURST	17.05.2018	Friday Friday course 1 session 5	11.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2-room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 course 2 / Samia HURST course 2 room A04.2906	17.05.2018	Friday Friday course 1 session 5 D. Hotz - B. Baumeister 10:00-17:00	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday course 6 / D. Kraus 10:15-12:00; room A04. course 3 wrap-up session A. McAllister 13:30-17:00 room A04.3018	16.05.2018 3018 23.05.2018	Thursday Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 course 2 room A04.2906 session 5	17.05.2018	Friday Friday course 1 session 5 D. Hotz - B. Baumeister 1:00-17:00 +2 external speakers ??	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday	Tue: 14.05.2018 Tue: Cours 08:30 room Cours 13:00 21.05.2018 Tue:	sday se 6 / G. Tanackovic D-12:00 n A04.3018 se 6 / G. Tanackovic D-17:00 n A04.3018	15.05.2018	Wednesday Course 4 session 6 + EXAM F. Curtin/D.Wame 08:15-12:00 UNIMAIL room MS040 Wednesday Wednesday Course 6 / D. Kraus 10:15-12:00; room A04. Course 3 Wrap-up session A. McAllister 13:30-17:00 room A04.3018 Wednesday	16.05.2018 3018 23.05.2018	Thursday Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 course 2 room A04.2906 session 5 M. Prunotto 13:15-17:00	17.05.2018 24.05.2018	Friday Course 1 session 5 D. Hotz - 8. Baumeister 1:00-17:00 +2 external speakers ?? room A04.2906	18.05
Monday course 5 A. Proudfoot 09:00-10:00 course 5 / W. Ferlin 10:30-12:00 room A04.2910 Monday course 2 room A04.2906 session 4 M. Prunotto 13:15-17:00 Monday Pentecost	Tue: 14.05.2018 Tue: Cours 08:30 room 21.05.2018 Tue:	sday se 6 / G. Tanackovic 0-12:00 n A04.3018 se 6 / G. Tanackovic 0-17:00 n A04.3018 sday	15.05.2018	Wednesday Course 4 session 6 + EXAM F. Curtin/D. Warne 08:15-12:00 UNIMAIL room MS040 Wednesday Course 6 / D. Kraus 10:15-12:00; room A04. Course 3 Wrap-up session A. McAllister 13:30-17:00 room A04.3018 Wednesday	16.05.2018 3018 23.05.2018	Thursday Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Thursday Course 12 / Samia HURST 10:15-12:00, bat. C, S4-S5 Course 2 room A04.2906 session 5 M. Prunotto 13:15-17:00	17.05.2018	Friday Course 1 session 5 D. Hotz - B. Baumeister 10:00-17:00 + 2 external speakers ?? room A04,2906	18.05
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Notes





Notes





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