



Winter
Schools
2018



FACULDADE DE DE
CIÊNCIAS MÉDICAS

Information and
Course Outlines



Winter
Schools
2018

The graphic features a stylized, black-and-white line drawing of a scarf or shawl on the left side, partially overlapping the text. The text "Winter Schools 2018" is displayed in a blue serif font, with "Winter" and "2018" in a larger size than "Schools".

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Greetings

Welcome to the Winter Schools 2018
at the School Of Medical Sciences!

The courses are mainly intended for medical undergraduate students from foreign institutions, fluent in English, who wish to have an experience in Brazilian medical and cultural practice with renowned and experienced professors, at one of the most important Brazilian university: UNICAMP.

Our one week training program consists of educational activities and visits in our Health Care System (Hospital de Clínicas Complex). We offered interesting courses with technical and practical content in topics of internal medicine, mental health, surgery and dermatology. Unicamp invites you to participate and wishes a great experience during this period.

Kind regards,



Rodrigo Bueno de Oliveira
Head of the International Office
SMS/UNICAMP



Ivan Felizardo Contrera Toro
Dean
SMS/UNICAMP



General Information

Period

From July 02nd to 06th, 2018.

Location

School of Medical Sciences - University of Campinas

Fee

The courses will be free of charge for the selected students. The School of Medical Sciences will provide free accommodation at CPV Visiting Professor's House (two students per room) and free breakfast, lunch and dinner at Unicamp's Restaurant. The student must pay for his/her ticket airplane, transportation to Campinas as well as their personal expenses.*

***Free accommodation is destined to undergraduate and graduate students. To healthcare professionals it is dependent on availability**

Requirements/Levels

- a) to be an undergraduate medical student with a special interest in the courses offered.
- b) to be a graduate student in the health area.
- c) to be a professional in the health area.
- d) only foreign students or professionals.*

***Brazilian students abroad will not be considered foreigners**

Course language

English

Number of participants

40 international students, vacancies may vary according to the course:

8 vacancies - Interdisciplinary Perspectives of Ayahuasca.

8 vacancies - Interrelation between rheumatic and dermatological diseases: from laboratory to clinical practice.

8 vacancies - Trauma Leagues – a novel option to attract medical students to a surgical career.

8 vacancies - Traumatism and Violence – psychopathological effects and clinical approaches.

8 vacancies - Point of Care POCUS Week – from basics to clinical practice and beyond.

Certificate

Will be delivered to the students after participating in the entire educational course.

Application period

December 11th to March 26th, 2018.

www.fcm.unicamp.br/fcm/en/winter-schools

Interdisciplinary Perspectives of Ayahuasca

General Description

Ayahuasca is a traditional psychoactive South-American brew. Its use is regulated in Brazil in native and religious settings. Ayahuasca has been the focus of a variety of recent human and animal studies on Pharmacology, Neuroscience and Psychiatry. Although it has not been yet regulated for therapeutic use in Brazil, ayahuasca and its components – dimethyltryptamine and the harmala alkaloids – are currently under scientific scrutiny with encouraging results. Because of its legal status in this country, Brazil has major relevance regarding ayahuasca studies and offers a unique opportunity for those interested in studying novel medicinal agents, the scientific investigation of altered states of consciousness, interdisciplinary discussions among Anthropology, Botany, Chemistry, Psychology and Medicine, and the investigation of the therapeutic potentials of psychedelic agents. This has been a new and exciting field of research whose results are constantly reaching the general media and attracting the attention of scholars and students.

The University of Campinas and its School of Medical Sciences houses a research group that is focused on ayahuasca: ICARO – the Interdisciplinary Cooperation for Ayahuasca Research and Outreach. ICARO is headed by Prof. Luís Tófoli and is composed of scholars and students from several areas from many institutes at UNICAMP and other Brazilian universities: Psychiatry, Psychology, Pharmacy, Anthropology, Agricultural Research, Biology, Chemistry and Neuroscience. The group is able to offer in English a comprehensive and thorough perspective about ayahuasca, its plant constituents and its interaction with humans. Moreover, ICARO is also structured in order to provide practical demonstrations on the management of ayahuasca plant species and the pharmaceutical management of ayahuasca and its constituents.

Course Objectives

At the end of the course, students will be able to:

1. Describe what ayahuasca is, how it is used, what are its constituents, how it causes its effects and what are its possible clinical applications in the current state of the art;
2. Discuss the medical, psychological, neuroscientific, anthropological, pharmacological, chemical, botanical, bioethical and pharmaceutical aspects of ayahuasca;
3. Formulate a simple proposal about ayahuasca within their field of expertise.

Teaching Methods

1. Lectures, discussions and active learning in classroom;
2. Visits with practical demonstrations in UNICAMP facilities related to the ICARO project (Faculty of Medical Sciences, Chemistry Institute and Chemical, Biological and Agricultural Pluridisciplinary Research Center).

Assessment:

1. Presence and punctuality;
2. Individual task: writing an abstract and the objectives of a research proposal on ayahuasca within the student's study area.

Duration: 1 week.

Prerequisites: Fluent English.

Who Should Attend?

- ✓ Undergraduate, graduate students and professionals within knowledge areas correlated to ayahuasca (Medicine, Psychiatry, Psychology, Pharmacy, Anthropology, Agricultural Research, Biology, Chemistry, Neuroscience and others);
- ✓ Up to 8 students.

Interdisciplinary Perspectives of Ayahuasca

Faculty

Coordinators:

- Luís Fernando Tófoli, MD, PhD (School of Medical Sciences, UNICAMP)

Faculty members:

- Alessandra Sussulini, PhD (Chemistry Institute, UNICAMP)
- Ílio Montanari Jr., agronomist, PhD (Chemical, Biological and Agricultural Pluridisciplinary Research Center)
- José Luiz da Costa, pharmacist, PhD (School of Pharmaceutical Sciences, UNICAMP)
- Marili Rodrigues, pharmacist (Chemical, Biological and Agricultural Pluridisciplinary Research Center)
- Paulo Moraes, psychologist, MSc (Professor at the Federal University of Rondônia; PhD candidate at the Federal University of São Paulo)
- Rodney Rodrigues, pharmacist, PhD (Chemical, Biological and Agricultural Pluridisciplinary Research Center)
- Alexandre Pontual, psychologist (PhD candidate, University of São Paulo / Ribeirão Preto)
- Bruno Ramos Gomes, psychologist, MSc (PhD candidate, School of Medical Sciences, UNICAMP)
- Lucas de Oliveira Maia, biologist, MSc (PhD candidate, School of Medical Sciences, UNICAMP)
- Ana Carolina Simão de Oliveira, psychologist (MSc candidate, School of Medical Sciences, UNICAMP)
- Dimitri Daldegan Bueno, psychologist (MSc candidate, Federal University of São Paulo)
- Luís Felipe Siqueira Valêncio, biologist (MSc candidate, Medical School of São José do Rio Preto)

Course Syllabus

- Introduction to the interdisciplinarity of ayahuasca – 60 min.
- The psychopharmacology of ayahuasca – 90 min.
- Ayahuasca plant constituents: Banisteriopsis caapi, Psychotria viridis and other possible admixtures – 90 min.
- Ayahuasca and Neuroscience
- The toxicology of ayahuasca intake – 90 min.
- Historical and anthropological aspects of ayahuasca – 180 min.
- The therapeutic potential of ayahuasca: depression, post-traumatic stress disorder and other illnesses – 90 min.
- Psychotherapeutic aspects of ayahuasca use – 90 min.
- Ayahuasca and health: objective and subjective perspectives – 90 min.
- The bioethics of ayahuasca use – 90 min.
- Set and setting in ayahuasca studies – 90 min.
- The psychometric assessment of ayahuasca effect – 90 min.
- The therapeutic potential of ayahuasca: substance-related disorders – 90 min.
- Agricultural management of B. caapi and Psychotria sp. – 90 min.
- Ayahuasca alkaloid extraction – 90 min.
- Pharmacological preparations of ayahuasca: original form, freeze-drying, other presentations – 90 min.
- Assessing alkaloids in plant material and ayahuasca samples – 90 min.
- Presentation of individual tasks – 90 min.

Interrelation between rheumatic and dermatological diseases: from laboratory to clinical practice

General Description

Rheumatology and Dermatology have a wide spectrum of clinical diseases that are commonly seen in primary care. Early recognition and adequate evaluation are key factors for prognosis and adequate referral. They are a crescent specialty worldwide, although it is usually an elective rotation in many medical programs.

The Department of Medicine of our Institution offers the opportunity to international medical students to share a unique approach of systemic and skin diseases, facilitating education across disciplines. In addition, the Department aims to share their experience in diagnosing and treating common diseases in the southeastern region of the country.

This course will focus on clinical principles of Rheumatology and Dermatology, tropical diseases, autoimmune/inflammatory diseases, and skin cancer, intermingled with histopathology, immunology, and basic science concepts.

Course Objectives

1. Discuss an interrelation between rheumatologically and dermatological diseases from a clinical and immunological perspective.
2. Discuss dermatological and rheumatological manifestations of tropical and emerging diseases such as leprosy, tuberculosis, leishmaniasis, dengue fever, Zika and Chikungunya.
3. To recognize the principal differential diagnoses and comorbidities (infectious / neoplastic)
4. Recognize genetic and immunological factors associated with the main rheumatological and dermatological diseases
5. Basic concepts of treatments

Teaching Methods

1. Visit to the university hospital and outpatient clinic;
2. Interactive bench to bedside lectures with senior faculty, including essential topics: basics and immunological aspects of rheumatic and dermatologic diseases, as outlined in the week schedule. For this activity, students will have access to related articles/materials in advance;
3. Discussion of didactic clinical cases;
4. Patient follow-up at the outpatient clinic;
5. Lectures with active interactive methodology.

Assessment:

1. Presence and punctuality;
2. Multiple choice questions.

Duration: 1 week.

Prerequisites: Medical students with pre-clinical knowledge and Fluent English.

Course material:

1. Materials elaborated by senior faculty;
2. Seminars (articles will be provided prior to sessions).

Faculty

Course organization and responsibility: Simone Appenzeller and Renata Magalhães

Professors from the Department of Rheumatology (Prof Dr Manoel Bértolo, Prof Dr Lilian TL Costallat, Prof Dr Ibsen Coimbra, Prof Dr Zoraida Sachetto) and Dermatology (Prof Dr Paulo Velho, Prof Dr Andrea Eloy, and Senior Clinicians from Hospital das Clínicas-Division of Rheumatology, Dermatology and Infectious Diseases.

Interrelation between rheumatic and dermatological diseases: from laboratory to clinical practice

Who Should Attend?

- ✓ Medical students with pre-clinical knowledge;
- ✓ Residents and graduated physicians;
- ✓ Up to 7 students.

One Week Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8h	Welcome and visit to the Unicamp Clinics Hospital	Visit to the Inpatient Clinic	Clinical cases	Clinical cases	Clinical cases
9h	Psoriasis/ Spondylarthritis (the use of biologic therapy in Brazil)	Visit to the laboratories Laboratory in Dermatology and Rheumatology	Cutaneous and systemic Lupus erythematosus And other collagenosis	Cutaneous neoplasms / Systemic sclerosis and escleroting cutaneous manifestations in collagenosis and other diseases	Emerging diseases on tropicals Zika, dengue, chikungunya, bartonella
12h	lunch				
14h	Clinical cases	Clinical cases	Clinical cases	Clinical cases	Clinical cases
15h	Bullous dermatosis in Brazil (endemic pemphigus foliaceus)	Leprosy And Tuberculosis	Sexually Transmitted Disease Leishmaniosis and Differential Diagnosis	Rheumatoid arthritis Cutaneous allergies	Final Reports

POINT OF CARE ULTRASOUND - POCUS WEEK - From Basics to Clinical Practice and Beyond

General Description

One of the most challenging skills in medical practice is the recognition of life threatening conditions in critical patients. Therefore, semiological and diagnostic tools that help medical professionals in these situations are very important for a high-quality patient care. In this regard, point of care ultrasound (POCUS) has shown to be an important means of enhancing our diagnostic capabilities, leading to better clinical reasoning and decision-making. Thus, this course aims to approach several aspects of medical education and clinical reasoning using point of care ultrasound.

Course Objectives

The main objective of the course is to review and consolidate some fundamentals of medicine through the use of POCUS. Therefore, the following topics will be addressed:

1. The role of Ultrasound on learning anatomy and physiology
 - The circulatory system
 - The respiratory system
 - The urinary system
 - The Liver and gallbladder
 - The muscle-skeletal system
2. The role of Ultrasound on learning pathophysiology and semiology
 - Diseases of the circulatory system
 - Diseases of the respiratory system
 - Medical syndromes and POCUS
3. The role of Ultrasound on clinical reasoning
 - Respiratory failure
 - Shock
 - Cardiac arrest
 - Trauma
 - Renal failure
4. POCUS and patient safety: Ultrasound-guided procedures
 - Central venous access
 - Dialysis catheters placement
 - Orothacheal Intubation
 - Thoracocentesis
 - Pericardiocentesis
5. Ultrasound, medical education and research
 - Ultrasound in the medical curriculum around the world
 - Ultrasound for medical residency around the world
 - Ultrasound for post-graduates
 - Ultrasound in basic and clinical research

Teaching Methods

1. Theoretical-clinical seminars
2. Hands-on sessions
3. Moodle platform
4. Discussion of clinical cases
5. Simulated clinical cases

Evaluation

Minimal presence: 80%

Punctuality

Pre-test evaluation

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POINT OF CARE ULTRASOUND - POCUS WEEK - From Basics to Clinical Practice and Beyond

Faculty

Course organization and responsibility: Thiago Martins Santos and Daniel Franci

Contributors: Marco Antonio de Carvalho Filho, Maria Andrea Delbin, Marcelo Schweller, Tiago de Araujo Guerra Grangeia.

Who Should Attend?

- ✓ Schedule: 35 hours – one week (Mon-Fri: 8h-12h am / 2h-5h pm)
- ✓ Medical students with pre-clinical knowledge;
- ✓ Residents and graduated physicians;
- ✓ Up to 7 students.

One Week Schedule

	Monday Ultrasound and anatomy	Tuesday Ultrasound and physiology	Wednesday Ultrasound and clinical reasoning	Thursday Ultrasound-guided procedures	Friday Ultrasound, medical education and research
8h	Welcome and opening remarks Pre-test evaluation Anatomy of the circulatory system	Physiology of the circulatory system Physiology of the respiratory system	Respiratory failure Shock Cardiac arrest Trauma	Central venous access Dialysis catheters placement Orothacheal Intubation Thoracocentesis Pericardiocentesis	Ultrasound in the medical curriculum around the world Ultrasound for medical residency around the world
9h	Anatomy of the respiratory system Anatomy of the urinary system Anatomy of the Liver and gallbladder	Physiology of the urinary system Physiology of the muscle-skeletal system			Ultrasound for post-graduates Ultrasound in basic and clinical research
12h	lunch				
14h	Hands-on sessions Anatomy of the circulatory system	Hands-on sessions Physiology of the circulatory system	Simulations with ultrasound	Hands-on sessions Central venous access – anatomy review and procedure simulation	Dicussion of collaborative projects: multicentric studies, webconferences and exchange programs. Final considerations and conclusions
15h	Anatomy of the respiratory system Anatomy of the urinary system Anatomy of the Liver and gallbladder	Physiology of the respiratory system Physiology of the urinary system Physiology of the muscle-skeletal system		Dialysis catheters placement – anatomy review and procedure simulation Orothacheal Intubation– anatomy review and procedure simulation Thoracocentesis – anatomy review and procedure simulation Pericardiocentesis – anatomy review and procedure simulation	

Traumatism and violence – Psychopathological effects and clinical approaches

General Description

This course aims to study the psychopathological incidence of trauma and violence as well as its therapeutic challenges from a theoretical and clinical perspective.

Course Objectives

The following topics will be addressed:

1. Definition of "trauma" and its psychopathological incidences
2. Historical aspects linked to the notions of "trauma", "traumatic neurosis", "war trauma" and "post-traumatic stress disorder"
3. Post-Traumatic Stress Disorder
4. Definition of "Violence" and its psychopathological implications
5. The Map of Violence in the World
6. The Map of Violence in Brazil
7. War situations – The case of the Vietnam War
8. Trauma and violence and its relations to social conditions: homicides, suicides and traffic accidents
9. Introduction to Victimology: the concepts of "Victim" and "Survivor"
10. Sexual violence against women
11. Sexual violence against children
12. The question of suicide
13. Overview of clinical and therapeutic approaches.
14. Medication approaches
15. Cognitive-behavioral approaches
16. Psychodynamic approaches
17. Group approaches, support networks, family approach
18. Elaboration of integrated therapeutic projects
19. Public policies to combat violence and assist victims, survivors and their families

Teaching Methods

1. Theoretical-clinical seminars
2. Discussion of clinical cases
3. Presentation of DPMP-FCM services and research groups related to trauma and violence.

Evaluation

Minimal presence: 80%

Punctuality

The submission of a Report, deepening one of the main topics discussed on the course.

Faculty

Course organization and responsibility: Mario Eduardo Costa Pereira

Contributors: Antonio Carvalho de Ávila Jacintho, Otavio do Prado Alabarse and Renata Zambonelli.

Who Should Attend?

- ✓ Schedule: 30 hours – one week (Mon-Fri: 9h-12h am / 2h-5h pm)
- ✓ Prerequisites: graduate and post-graduate students or professionals on health professions.

Traumatism and violence – Psychopathological effects and clinical approaches

One Week Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
9h	Definition of "trauma" and its psychopathological incidences / Historical aspects linked to the notions of "trauma", "traumatic neurosis", "war trauma" and "post-traumatic stress disorder" / Definition of "Violence" and its psychopathological implications - Mario E C Pereira	Medical assistance in acute trauma situations - Gustavo Fraga	Introduction to Victimology: the concepts of "Victim" and "Survivor" – Otavio Alabarse	Sexual violence against children – Antonio Jacintho	Group approaches, support networks, family approach – Otavio Alabarse
12h	lunch				
14h	The Map of Violence in the World/The Map of Violence in Brazil / Traffic accidents / Homicides – effects on families - Mario E C Pereira	Suicide – effects on families – Carlos Cais	Psychodynamic approaches on trauma and violence – Mario E C Pereira	Sexual violence against women / gender violence	Elaboration of integrated therapeutic projects / Post-Traumatic Stress Disorder / Medication approaches / Cognitive-behavioral approaches
15h					

Trauma Leagues: A Novel Option to Attract Medical Students to a Surgical Career

General Description

In the early 1990's in Brazil, clusters of medical students interested in increasing their exposure to certain medical disciplines started to emerge and organize under the name of Academic Leagues. Leagues first appeared in a few major academic centers such as the University of Campinas, where the first League was created in 1992.

Trauma Leagues consist of groups of medical students that voluntarily congregate under the supervision of a surgeon, often with an academic career and respectable academic credentials. The stated goals of the Trauma Leagues are to: (1) increase the members' knowledge in trauma, surgery, and emergency care; (2) offer the students the opportunity to participate in emergency room, operating room, and trauma resuscitation care; (3) offer the student the opportunity to participate in research and other academic activities of the Trauma Programs; (4) offer the opportunity to observe all the daily activities of practicing surgeons (apprenticeship); (5) participate and organize trauma meetings, as example the Brazilian Congress of Trauma Leagues (CoLT); and (6) develop and work in injury-prevention projects.

Course Objectives

1. Discuss the capacity of the Trauma Leagues to bring the students to their actions as a way to attract new general surgeons.
2. Present the activities promoted by the Trauma Leagues in Brazil in an extracurricular way and form as part of a parallel curriculum.
3. Provide students the opportunity to learn about trauma and have more experience in practical skills and realist simulation, becoming more prepared to take care of trauma patients.
4. Carry out prevention activities, such as the P.A.R.T.Y. (Prevent Alcohol and Risk-Related Trauma in Youth); Yellow May; and Saving Lives.
5. Explain how participation in Trauma League has been an effective strategy to encourage medical students to choose a career in general surgery in Campinas, Brazil.

Teaching Methods

1. Lectures with active interactive methodology;
2. Visit to the university hospital and pre-hospital care;
3. Discussion of didactic clinical cases at ICU and in tele grand rounds by telemedicine;
4. Realistic simulation;
5. Interaction with medical students and students from high school during the P.A.R.T.Y. (Prevent Alcohol and Risk-Related Trauma in Youth) Program.

Assessment

1. Presence and punctuality;
2. Interaction with the faculty and other students.

Duration: 1 week

Course material:

1. Papers elaborated by the faculty.
2. Seminars (articles will be provided prior to sessions).

Prerequisite: pre-clinical knowledge (at least 50% of the medical course at the foreign institution) and fluent English.

Who Should Attend?

- ✓ Medical students with pre-clinical knowledge (at least 50% of the medical course at the foreign institution);
- ✓ 8 to 10 students.

Trauma Leagues: A Novel Option to Attract Medical Students to a Surgical Career

Faculty

Course organization and responsibility: Gustavo Pereira Fraga, Elcio S. Hirano, Bruno M. T. Pereira and Thiago R. A. Calderan. Professors from the Division of Trauma Surgery, School of Medical Sciences, University of Campinas (Unicamp).

One Week Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8h	Welcome and visit to Clinics Hospital of University of Campinas (Unicamp)	The history of Trauma Leagues	What difference does the presence of a trauma league have?	How to create and manage a Trauma League?	The importance of Trauma Leagues – Alumni stories
9h		Hospital Rounds (ICU and Wards)	Realistic Simulation	Article discussion	Telemedicine Grand Round (Clinical Case)
10h				Trauma Division Weekly Meeting (Clinical Case)	
12h	lunch				
13h		P.A.R.T.Y Program			
14h	Telemedicine (Clinical Cases)		Pre-hospital visit (SAMU)	Pre-hospital visit (GRAU)	Saving Lives Program

CONTACTS – WINTER SCHOOLS TEAM

E-mail for contact gti@fcm.unicamp.br

Head of the International Office: Rodrigo Bueno de Oliveira

Website: <http://www.fcm.unicamp.br/fcm/en/winter-schools>

Hours: Monday to Friday from 9 am to 5 pm

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