



FACULDADE DE  
CIÊNCIAS MÉDICAS

Information and  
Course Outlines

A black and white line drawing of a scarf, shown in a loop and then extending to the right, partially overlapping the text.

# Winter Schools 2017



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# Greetings

Welcome to the Winter Schools 2017  
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 and dermatology. Unicamp invites you to participate and wishes a great experience during this period.

Kind regards,



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**Ivan Felizardo Contrera Toro**  
Dean  
SMS/UNICAMP



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





# General Information

Period

From July 10<sup>th</sup> to 14<sup>th</sup>, 2017

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 should pay for his/her ticket airplane, transportation to Campinas as well as their personal expenses.

Requirements/Levels

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

Course language

English

Number of participants

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

15 vacancies - Interrelation between rheumatic and dermatological diseases: from laboratory to clinical practice in a Brazilian reality

10 vacancies - Traumatism and Violence – psychopathological effects and clinical approaches

10 vacancies - Interdisciplinary Perspectives of Ayahuasca

05 vacancies - Role of High-Density Lipoproteins in Cardiovascular Health

Certificate

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

Application period

March 23<sup>rd</sup> to May 13<sup>th</sup>, 2017

[www.fcm.unicamp.br/fcm/winter-schools](http://www.fcm.unicamp.br/fcm/winter-schools)

# Interrelation between rheumatic and dermatological diseases: from laboratory to clinical practice in a Brazilian reality

## 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, leishmaniosis, 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:** 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 in a Brazilian reality

## 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	Clinical cases	Clinical cases	Clinical cases	Clinical cases
9h	Psoriasis/ Spondylarthritis (the use of biologic therapy in Brazil)	Dermatologic and rheumatologic childhood disease	Lupus erythematosus Cutaneous and systemic And other collagenosis	Cutaneous neoplasms / Systemic sclerosis	Dermatosis of the travelers “be aware“ Mosquito transmitted disease (leishmaniosis, miiasis) and Sexually transmitted disease
12h	<b>lunch</b>				
14h	Clinical cases	Clinical cases	Clinical cases	Clinical cases	Clinical cases
15h	Bullous dermatosis in Brazil (endemic pemphigus foliaceus)/ Vasculitis	Leprosy And Tuberculosis	Emerging diseases on tropicals Zika, dengue, chikungunya, bartonella And others	Rheumatoid arthritis  Cutaneous allergies (urticaria, atopic and contact dermatitis)	Anatomo-clinical correlation  Laboratory



# 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 and Renata Cruz Soares de Azevedo

Contributors: Antonio Carvalho de Ávila Jacintho, Cláudia de Oliveira Facure, Emilia Broid, Jorge Broid, 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 students or professionals on health professions

# Interdisciplinary perspectives of Ayahuasca

## General Description

Ayahuasca is a traditional psychoactive South-American brew whose use is regulated in Brazil in native and religious settings. It is subject 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 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

**Prerequisite:** Fluent English

## Who Should Attend?

- ✓ Undergraduate and graduate students within knowledge areas correlated to ayahuasca (Medicine, Psychiatry, Psychology, Pharmacy, Anthropology, Agricultural Research, Biology, Chemistry, Neuroscience and others)
- ✓ Up to 10 students

## Interdisciplinary perspectives of Ayahuasca

### Faculty

Coordinators: Luís Fernando Tófoli (School of Pharmaceutical Sciences, UNICAMP) and Clarissa Rosalmeida Dantas (School of Pharmaceutical 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), Maurício Fiore, anthropologist, PhD (Brazilian Centre for Analysis and Planning), 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), 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).

### Course Syllabus

Historical and anthropological aspects of ayahuasca. Ayahuasca plant constituents: *Banisteriopsis caapi*, *Psychotria viridis* and other possible admixtures. Active ingredients of ayahuasca: dimethyltryptamine, harmine, harmaline, tetrahydroharmine and other betacarbolines. The Psychopharmacology of ayahuasca. Ayahuasca and Neuroscience. The Toxicology of ayahuasca intake. The therapeutic potential of ayahuasca: depression, substance-related disorders, post-traumatic stress disorders and other illnesses. The psychometric assessment of ayahuasca effect. Set and setting in ayahuasca studies. Psychotherapeutic aspects of ayahuasca use. Agricultural management of *B. caapi* and *P. viridis*. Pharmacological preparations of ayahuasca: original form, freeze-drying, other presentations. Assessing ayahuasca alkaloids in plant material, ayahuasca samples and biological fluids. Performing a clinical trial with ayahuasca.



# Role of high density lipoproteins in cardiovascular health

## General Description

In the last several years, evidence from Mendelian randomization studies and pharmacological trials suggest that high density lipoprotein cholesterol (HDL-C) level is not causally related to coronary artery disease (CAD). A reasonable assumption that has been made from these studies is that the cholesterol content of high-density lipoprotein (HDL) particles is not the cardioprotective factor by itself, suggesting that the relationship between HDL and cardiovascular risk is more complex and involves other properties.

Thus, metrics of HDL structure and function such as particle size, cholesterol efflux capacity and antioxidant activity may be causal mediators of atheroprotection. Indeed, the ability to remove excess cholesterol from arterial wall cells may represent a more precise biomarker of CAD risk than HDL-cholesterol. In this intensive course students will be able to improve the understanding of plasma lipoproteins, especially HDL metabolism. Additionally, students will be able to learn important techniques to measure HDL properties.

## Course Objectives

The main objectives of this intensive course include:

1. To improve the global understanding of coronary artery disease markers and the role of HDL properties in this subject;
2. To allow students to learn advanced concepts regarding HDL structure, metabolism and function;
3. To develop technical skills regarding lipoprotein isolation and HDL function determinations, such as cholesterol efflux capacity and antioxidant function.

## Teaching Methods

The students will take part in:

1. Interactive lectures with senior and associated faculty including the essential topics, on the structure/function of lipoproteins and their role in cardiovascular disease
2. Guided seminars in which students have to prepare a short presentation followed by a discussion that will include the clinical implications of new CAD biomarkers based on HDL function.
3. Guided hands-on experience with the isolation of lipoproteins, cholesterol efflux and determination of antioxidant activity.

**Schedule:** Dates: July 3-7, 2017, Time/Days: 5 days, 2 periods per day.

**Prerequisite:** Basic knowledge in the sciences, fluency in spoken and written English.

**Course material:** Books, printed and electronic scientific papers and case reports will be provided before the course starts.

## Faculty

Eliana Cotta de Faria, MD, PhD (coordinator): Professor of the Department of Clinical Pathology, head of Lipids Laboratory in the School of Medical Sciences - University of Campinas and Vanessa Helena de Souza Zago, MS, PhD: Research Associate of the Lipids Laboratory in School – University of Campinas.

## Who Should Attend?

- ✓ Students of medicine, biology, biochemistry, pharmacy, chemistry, biomedicine, nursing or physical activity with interest in clinical Lipidology.

## **CONTACTS – WINTER SCHOOLS TEAM**

E-mail for contact [gti@fcm.unicamp.br](mailto:gti@fcm.unicamp.br)

Head of the International Office: Rodrigo Bueno de Oliveira

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

Hours: Monday to Friday from 9 am to 5 pm

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