



Surgical Science and Microbiology - V.P. POSITION

DESCRIPTION OF THE PHD PROGRAM

The PhD course aims to provide the participants with high-level research competences applicable at both public and private entities, offer qualifications in terms of freelance work and contribute to the completion of the European Higher Education and Research Area.

The integrated study of advanced surgical technologies, anaesthesiology, keeping up with the continuous evolution of biomaterials of prosthetic, synthetic and biologic nature and the clinical usage of stem cells, aims at the acquisition of new knowledge in the fields of physiology and pathogen actions of emerging and/or re-emerging infections agents.

Similarly, the new knowledge and the usage of more advanced technologies in microbiology aim at identifying the surgical facilities at lesser risk of infectious complications.

DESCRIPTION OF THE SCIENTIFIC FIELD & VISITING PROFESSOR PROFILE

Pain is a determining factor in both perioperative care and one of the main factors for the long-term outcome of the patient. These last years have seen an ever-increasing attention on the pathophysiological, neurological and biomolecular elements that enable pain to become chronic pain. Spinal sensitization is the most important pathophysiological element that has to be studied.

There is, hence, an ever-increasing attention dedicated to all the clinical and physio-pathological elements that could highlight the neurophysiology of pain sensitization that leads to chronic pain.

Given the extreme interest and the transversal nature of this clinical element, it is important to enrich the research doctorate with a professor that would have documented research experience in this field. Hence, he or she would improve the teaching quality of the doctorate and further research possibilities for the PhD students and for University of Parma.

DESCRIPTION OF THE DIDACTIC ACTIVITIES OF THE VISITING PROFESSOR

- Complex clinical evaluation of the pathophysiological mechanisms related to the transmission of the pain impulse. Seminar cycles on the neurophysiological assessment methods of spinal sensitization;
- Teaching and tutoring activities for PhD students on how to conceive and conduct clinical trials in the field of central sensitization;
- Tutoring activities about research projects shared with the visiting professor. The candidate has to demonstrate that he is performing research activity in which can involve the University of Parma's PhD.

Presence at the University of Parma: A total of two/three weeks/year presence in Parma. Furthermore, two days/month in teleconference for teaching and research support activities of the PhD students.
