Applied Medical Research Constellation

Research Themes:
- Study of thrombectomy with intravascular devices on the arteries of pigs
- Effects of electromagnetic waves on living organisms

Keywords:
- Applied Clinical Research
- New Technology
- Innovative Devices
- Thrombectomy
- Electromagnetic Waves

2012
This team covers applied clinical research centred around new technology and innovative systems. The aim is to study the impact of new technologies on living organisms and to test innovative devices on animals. Two main axes are currently being developed:

- the effects of electromagnetic waves on living organisms. A wide range of recent technologies use electromagnetic waves (mobile phones, WiFi, etc.). Studies on their potential effects on living organisms, on both cell level and whole animal organism level, are carried out using exposure systems developed by our physicist colleagues (X-Lim Institute). As such, this work involves active collaboration between physicists and biologists.

- the study of thrombectomy with intravascular devices on the arteries of pigs. As a result of histological studies carried out in conjunction, this axis enables us to gain a better understanding of potential short-term and long-term impacts of intravascular devices on arteries. Furthermore, we can compare the various systems that already exist and study the latest devices developed before any likely launch on the market.
KEY FIGURES
(at 1st January 2012)

Teacher-researchers: 19
Other researchers: 1 post-doctoral student
3 hospital practitioners
HDR (accredited to direct research): 17
Doctoral students (2011-2012): 2
Engineers, technicians: 1

PARTNERSHIPS

Active National University Partnerships:
X-Lim Research Institute (Limoges)
Compiègne Technology University

Current International University Partnerships:
University of Brasilia (Brazil)

International Industrial Partnerships:
Microvention-Terumo
EV3-Covidien

Research Federation:
GEIST (FR 3503)
SCIENTIFIC PRODUCTION
OF RESEARCH TEAM
(2008-2011)

Website publication: hal-unilim.archives-ouvertes.fr
Articles: 128 international and 15 in peer-reviewed journals
Book chapters: 6
Conference presentations: 25

Major publications and/or patents over the last 5 years


