

***PhD in Health and Life Sciences***

See: <http://www.upf.edu/cexs/doctorat/inicial.htm>

**Science in Action course (includes Responsible Conduct of Research and Critical thinking). Dir.: Prof. Jordi Camí**

A general objective of the present course is to enforce participants with the 'Code of Good Scientific Practices' adopted by PRBB centers. More info, see:

<http://www.prbb.org/eng/part01/p06.htm>

**Topics included in previous editions of Science in Action course (since 1999):**

A. The Responsible Conduct of Research. Current challenges in planning, conducting, reporting and reviewing research. Mentor and trainee responsibilities. Data collection and management, quality control procedures. Data and scientific information share. Patenting, innovation and technology transfer. Authorship and publication practice. Peer review & politics of publication. Open access publishing and the crisis of the journal market. Integrity of research. Conflicts of interest and the industry-academy relationships. Science, scientists and society (scientific dissemination, public understanding of science and the relationship between scientists and media).

B. Bioethical topics. The protection of human subjects in clinical trials. The welfare of laboratory animals. Bioethical guidelines regulating clinical and experimental studies. Bioethical challenges in genomics era. Use of human data and biological materials for research: consent and right to privacy

C. Introduction to critical thinking (Dr. Elinor Thompson): Values in science and critical thinking, the structure of an argument, evaluating an argument, practical argument evaluation, ethical decision making.

D. Debates: Religion and Science, Science and Gender, Dual-use of research.

E. Understanding the Science-Technology system: Origin and dynamics of scientific research practices and technological innovations; the science & technology system (structure and input indicators); development of science policies and the 'science' for establishing priorities (the cases of military research and the 90/10 gap); the metrics of science outputs with particular emphasis on bibliometry.

## **2008 Science in Action course**

A new edition Science in Action course will be offered at the PRBB in 2008. The fulfillment to the course is compulsory and the student will be required to present the attendance justification in order to complete the PhD. The course will combine a first part on-line with a second part based on group attendance. In especial cases, a student can obtain from the "Doctoral Thesis Committee" a Science in Action course exemption if he/she demonstrates previous attendance to courses with similar contents offered by other institutions.

[2008 Science in Action Programme](#)