

Report on the stay of Pr Jacky Cosson

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to the group of Dr. Juan F. Asturiano

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The 3 main goals of this 5 days stay (from 25 to 29th November 2014) were:

1- to acquire some practical knowledge of the induction of spermatogenesis in the european eel and develop some perspectives of cooperation with the laboratory of J. Asturiano on several aspects of fish aquaculture.

2- to get into contact with a company in Valencia (Proiser R & D), which develops sperm motility analysis systems and various optical microscopy applications that potentially interest our own research topics.

3- to present to students of the Polytechnic University of Valencia, especially those interested in Aquaculture, the teaching and research programs offered to Masters or PhDs students by our Faculty as well as the possibilities of Post-Doctoral positions available in our Institute.

On Monday 25th, I gave a two hours lecture to the people doing research and teaching in the Department of Animal Sciences. These lecture were focused on various aspects of sperm motility, with special emphasis on fish sperm motility regulation.

On Tuesday 26th, we have run experiments on eel spermatozoa collected after hormonal injection. We used CASA (computer assisted sperm analysis) and flow-cytometry was applied to measurement of fluorescently labeled eel sperm cells.

On Wednesday 27th, I visited Proiser company which is located in another campus of Valencia University. We established with several persons from this company, some excellent relationship aiming to develop together in future, some computer analysis of fish sperm flagella waves and study the feasibility of a cold thermostated microscope stage.

On Thursday 28th, I gave 2 lectures to bachelor students: one lecture was focused on the description of the study programs which are accessible in our faculty (Faculty of Fisheries and Protection of Waters) to bachelor level, master level as well as to PhD level students and even Post-Doctoral positions. Most of the studies proposed in these programs are supported by fellowship of the Czech Republic educational programs. The second lecture was focused on basic features of sperm motility, mostly a presentation of the mechanisms, which generate wave propagation in sperm flagella, especially in sperm of various fish species.

On Friday 29th, the morning was devoted to discussions with several components of Dr Asturiano's group and were focused on possibilities of development of future collaborations and exchange programs. On the same day, I attended a meeting mostly dealing with various aspects of aquaculture in Spain.

Altogether, this 5 days stay was very fruitful from my point of view, as it constitutes an initiation point for developing further collaborations between our two institutions as well as various exchange programs between students of our respective faculties, and, in addition, it opens perspectives of development of new technologies applied to fish spermatology.

I would like to emphasize the excellent greetings I have received from people in the different places that I visited in Valencia.