

Wednesday, 13 de June de 2018

PhD Thesis about the effects of disturbances in mountain rivers - María Béjar (Research Group RIUS)

On 18/05/2018, Maria Béjar predoctoral fellowship of the Department of Environment and Soil Sciences, [Research Group Fluvial Dynamics \(RIUS\)](#) [/sites/Macs/en/recerca/rius/], presented her thesis entitled: **"Interactions between sediment transport, physical habitat and benthic communities in a mountainous river affected by natural and human disturbances"**. The thesis was co-supervised by Drs Damià Vericat and Ramon Batalla (DMACS-UdL) and Dr. Chris Gibbins (University of Nottingham- Malaysia Campus) This doctoral thesis presents new insights on the interactions between physical (sediment transport, flow and habitat) and ecological (benthic communities,

macroinvertebrate drift) processes driven by natural (tributaries, floods) and human disturbances (gravel mining and hydropeaking) in a montane river (the upper Cinca, Southern Pyrenees). The work addresses processes and interactions spanning instantaneous to annual temporal scales, and from grain to river reach scale. Identification of the key scales of interaction and the integration of sampling techniques that provide continuous and high density measurements are shown to provide sound knowledge into species-habitat relations and, in turn, a firm evidence supporting the rational assessment and sustainable management of fluvial ecosystems.

