

## Host Report Short Term Scientific Mission IS1305- 160215-055460

**COST STSM Reference Number:** COST-STSM-IS1305-160215-055460

**Period:** 20-02-2015 to 20-5-2015

**COST Action:** IS1305

**STSM type:** Regular (from Spain to Italy)

**Guest/STSM applicant:** Luis Espinosa, Universitat Pompeu Fabra

**Host:** Dr. Roberto Navigli

Sapienza University of Rome

navigli@di.uniroma1.it

**Duration:** 90 working days.

### Report:

The applicant, Luis Espinosa-Anke, was involved in a project related to the extension of the Wikipedia Bitaxonomy (WiBi) (Flati et al., 2014), a two-layered taxonomy over Wikipedia pages and categories. He was interested in understanding the possibilities to generate automatic taxonomies from free text, as well as exploring additional relations in a future version of WiBi. To this aim, he carried out two main projects: First, a system for automatically learning domain lexical taxonomies, which may be useful for extending WiBi *in size*, and second, a system for merging and harmonizing large knowledge repositories under the common semantic inventory of BabelNet (Navigli and Ponzetto, 2010).

The result of these two projects are: On one hand, lexical taxonomies for varied domains such as Food, Equipment, Chemicals, Terrorism or AI. On the other hand, a preliminary dataset containing a unified knowledge base derived from the output of well-known Open Information Extraction systems.

He has done an excellent job in his stay here, both working hard and engaging in collaborations with members of the group. We are very excited about potential collaborations with Luis in the future.

Dr. Roberto Navigli.