The use of activity based protein profiling to study proteasome biology

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Curriculum Vitae

Guillem Paniagua Soriano was born on 14th September 1984 in Valencia, Spain. In 2003, he graduated from the Deutsche Schule Valencia. During this period he got interested in chemistry and other science related subjects. Thereafter he followed the Chemistry licentiature at the Faculty of Chemistry of the University of Valencia. In 2010 he moved to Leiden University to perform a 9 months research project supported by an Erasmus grant. During this period he worked on the quantification of Bortezomib effect on 26S proteasomes in the Bio-organic Synthesis group under supervision of Dr. B. Florea.

From October 2011 to December 2015, he worked as a PhD student in the group of Bio-organic Synthesis, Leiden Institute of Chemistry under supervision of Prof. Dr. Hermen Overkleeft and Dr. Bobby Florea. In 2012 he assisted the Proteomics Bioinformatics workshop in Cambridge, UK, organized by Wellcome Trust together with the EMBL-EBI. In 2012 and 2014 he presented posters at the 4th and 5th EMBO Chemical Biology meetings in Heidelberg, Germany.

List of Publications

Relative quantification of proteasome activity by activity-based protein profiling and LC-MS/MS
Li N, Kuo Cl, **Paniagua G**, van den Elst H, Verdoes M, Willems LI, van der Linden WA, Ruben M, van Genderen E, Gubbens J, van Wezel GP, Overkleeft HS and Florea BI
Nat. Protoc., 2013 Jun; **8**(6): p. 1155-1166

Toward understanding induction of oxidative stress and apoptosis by proteasome inhibitors
Paniagua Soriano G, de Bruin G, Overkleeft HS and Florea BI
Antioxid. Redox Signal., 2014 Dec 10; **21**(17): p. 2419-2443

Systematic analyses of substrate preferences of 20S proteasomes using peptidic epoxyketone inhibitors
Huber EM, de Bruin G, Heinemeyer W, **Paniagua Soriano G**, Overkleeft HS and Groll M
JACS, 2015 Jun 24; **137**(24): p. 7835-7842

Proteasome inhibitor-adapted myeloma cells are largely independent from proteasome activity and show complex proteomic changes in particular in redox and energy metabolism
Paniagua Soriano G, Besse L, Li N, Kraus M, Besse A, Meeuwenoord N, Bader J, den Dulk H, Overkleeft HS, Florea BI and Driessen C
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