



### Erasmus+ Traineeship

EMPLOYER INFORMATION	
Name of Organization	University of Murcia
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ENTERPRISE JOB DESCRIPTION	
Name of enterprise	BIOTECHNOLOGY GROUP / GRUPO BIOTECNOLOGÍA
Duration	3 months
Working Hours	40 h/week
Project Description	<u>Regulation, Function, and Detection of Post-translational Protein Acetylation in <i>E. coli</i></u> : Based on the principles of Systems and Synthetic Biology, we aim to define strategies to change the regulatory structure of the acetylation-deacetylation system in <i>E. coli</i> . For that purpose, it is necessary to improve our understanding of the metabolic regulation at transcriptional and post-translational level.



Tasks of the Erasmus intern	Standard protein analysis techniques (enzyme activity measurements, protein purification, western-blotting, cell viability assays by MTT, differential scanning calorimetry, isothermal titration calorimetry, analytical ultracentrifuge etc) will be used for the purification and characterization of targeted proteins. State-of-the-art methodologies for biochemistry and molecular biology studies (enzyme characterization, cloning, chromosomal insertion, mutations etc.).
Requirements	<ul style="list-style-type: none"><li>- Basic knowledge of Biology, Biochemistry or chemistry is required</li><li>- Basic Spanish level</li><li>- Preliminary English level</li></ul>
What do we offer	Our research group explores diverse research questions using a wide variety of approaches, experimental systems, and techniques
Website	<p><a href="https://curie.um.es/curie/catalogo-ficha.du?seof_codigo=1&amp;perf_codigo=10&amp;cods=E060*04">https://curie.um.es/curie/catalogo-ficha.du?seof_codigo=1&amp;perf_codigo=10&amp;cods=E060*04</a></p> <p>Contact: Teresa de Diego Puente (<a href="mailto:tdp@um.es">tdp@um.es</a>; +34 868 88 7395)</p>



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