



POLITÉCNICA



E.T.S. DE INGENIERÍA AGRONÓMICA,  
ALIMENTARIA Y DE BIOSISTEMAS

**Título de las prácticas (Title of the internship):**

Structural analysis of proteins implicated in zinc-mediated immunity

**Descripción de las funciones del alumno (Description of the student's tasks)**

Computational analysis of the potential interactions between zinc transporter proteins

**Requisitos (Prerequisites):** (*indicar titulación y curso*) (give Grade and academic year); otros requisitos adicionales (idiomas, informática, otros conocimientos, etc) (other aditional prerequisites (languages, informatics, other knowledge, etc)

Computational Biology master student

**Proyecto formativo (Training Project)**

Module EXTERNAL PRACTICES. The fundamental goal of the external practices is to guide the student in applying his previously acquired knowledge to real tasks in a group work environment the realistically represents the work conditions the the students will encounter in their future roles. In this way, the student will be able to get familiar with a working environment (work schedule, responsibility, attitude, organization, etc),and with the adequate working methodology in profesional reality, contrasting and applying the acquired academic knowledge.

**Actividades a desarrollar en la práctica académica (Activities that will be performed in the academic internship):**

Computational screening for proteins with zinc-binding motifs

Structure prediction using AlphaFold2

In silico analyses of protein-protein interactions

- Protein-protein docking analysis
- Molecular dynamics simulations



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<b>Nº de plazas:</b>  (Nr. of places)	1
<b>¿El alumno tendrá trato habitual con menores?</b>  (Has the student dealings with underage persons?)	No
<b>Fecha de inicio:</b>  (Starting date)	1/02/2023
<b>Fecha de fin:</b>  (End date)	Junio 2023
<b>Horas semanales:</b>  (Weekly hours)	Flexible
<b>Horario jornada laboral:</b>  (Working hours)	
<b>Importe Ayuda/Bolsa de estudio:</b>  (Amount of fellowship / remuneration)	€/mes
<b>Tutor académico:</b>  (Academic tutor (UPM))	<b>María Garrido Arandia</b>  <b>maria.garrido@upm.es</b>



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Email:	
<b>Departamento tutor académico:</b>  (Dept. of academic tutor)	
<b>Tutor empresa:</b>  (External tutor)	
<b>Email tutor empresa:</b>  (Email external tutor)	
<b>Departamento tutor empresa:</b>  (Dept. of external tutor)	
<b>Ubicación de la estancia de las prácticas</b>  (Location of the internship)	
<b>ENTIDAD COLABORADORA:</b>  (Collaborating Entity)	
<i>A cumplimentar por Oficina Prácticas ETSIAAB:</i> <b>Créditos a reconocer (Nº ECTS):</b>	

Enviar por email a: **OFICINA DE PRÁCTICAS ACADEMICAS EXTERNAS – ETSIAAB**  
secretaria.pei.etsiaab@upm.es – Secretarias: Visitación Pérez / Susana Pardo - Tfno: 913363686)