



CONVOCATORIA DE PRÁCTICAS INTERNACIONALES

CONVENIO UCLM/CERFA 2022

PROYECTO 4

Afiliación del supervisor y Enlace a afiliación / Supervisor affiliation and Affiliation link
Translational Genomics in Solid Tumors, German Cancer Consortium (DKTK) at University Hospital Essen
<https://dtkk.dkfz.de/en/research/dtkk-researchers/Pena-Llopis-group>

Título del Proyecto/ Project Title
Targeted drug screens in cell lines and patient-derived organoids from renal cell carcinoma and uveal melanoma

Perfil preferencial del estudiante
Superior level of studies in Biochemistry, Pharmacy, Biotechnology or Informatics

Fechas orientativas/Available Dates
01/06/2022 to 30/09/2022

Programa/ Detailed program of the traineeship period (aprox. 100-200 palabras)
The research group of Translational Genomics in Solid Tumors revolves around the use of genomics and bioinformatics to get insight into the mechanisms of tumor development and metastasis in renal cell carcinoma and uveal melanoma, and its validation using molecular biology and biochemistry approaches, as well as preclinical models, such as patient-derived organoids, to be able to translate the findings into the clinic.

Renal cell carcinoma and uveal melanoma are characterized by frequent mutations in the epigenetic modifier and tumor suppressor gene *BAP1*, which lead to higher tumor aggressiveness, higher incidence of metastasis and poor patient survival. We have identified several vulnerabilities of tumors with *BAP1* loss and we would like to perform targeted drug screens in several cell lines and patient-derived organoids generated from tumors of renal cell carcinoma and uveal melanoma, obtained in collaboration with surgeons and pathologists in the departments of Urology and Ophthalmology at the University Hospital Essen.

Competencias a adquirir por parte del estudiante/ Knowledge, skills and competences to be acquired by the trainee at the end of the traineeship (expected Learning Outcomes) (aprox. 100 palabras)

Cell culture of mammalian cell lines and patient-derived organoids, cell viability and proliferation (CellTiter-Glo Luminescent assay), drug treatments, synergism analysis, cancer genomics, experiment design and data interpretation.

Seguimiento/ Monitoring Plan (aprox. 50 palabras)
Daily direct supervision of the trainee until sufficient capacity and independence is achieved to operate with minimal supervision. Thereafter, regular meetings, at least once a week, and whenever necessary to discuss about data analysis, interpretation and problem solving.

Evaluación/ Evaluation plan (aprox. 50 palabras)
Evaluation of the progress achieved by the trainee by weekly meetings towards the goals of the project and final evaluation of the whole project.



Conocimientos técnicos o experiencia requerida (si procede) / Technical knowledge or experience required (if applicable)

Language competence required: English B2

Basic laboratory experience is required/desirable

Especificaciones extra de la institución de acogida (si procede) / Additional specifications of the host institution (if applicable)

Enrolment as lab member in both DKFZ and University Hospital Essen

Disponibilidad para evaluar informes de covalidación de créditos (Si/No) / Availability to evaluate credit convalidation reports (Yes / No)

YES

Otra información relevante / Any additional important information

Además del soporte económico del Programa Erasmus+ Placement de la UCLM, los estudiantes recibirán el paquete de **Ayudas CERFA-Fundación Ramón Areces**. En la convocatoria 2022, éste se divide en dos conceptos:

- Ayuda económica en concepto de viaje: 400 euros
- Curso práctico destinado a ofrecer formación sobre gestión de carrera profesional

Toda la información aquí: <https://cerfa.de/ayudas-cerfa-fra/>