

Palacký University Olomouc

Department/division: Laboratory of Experimental Medicine (LEM), Institute of Molecular and Translational Medicine (IMTM), Faculty of Medicine and Dentistry

The aim of the LEM IMTM is the development and implementation of modern molecular based diagnostics especially in oncology. Current research activities are focused on prognostic and predictive biomarkers identification using modern genomic methods (WGS, ddPCR, microarray, RT-PCR, image analysis, X-omics). The proposed topic is focused on comprehensive liquid biopsy analysis involving circulating tumour cells (CTCs) and cfDNA in patients with colorectal cancer.

Position title: Biologist at the IMTM

Position purpose: To prepare and analyse biological samples for liquid biopsy analysis.

Duties and responsibilities:

- Purification of CTCs and cfDNA from patient samples using standard operation procedures
- Preparation and analysis of CTCs using CytoTrack CT11 technology
- Amplification and WGS of cfDNA obtained from colorectal cancer patients
- Single-cell PCR and WGS of CTCs of colorectal cancer patients
- Interpretation of results

Qualifications

Field/s of study:

- Biology

Level of study: doctoral

Professional competences:

- Knowledge and skills within molecular biology

Key competences/Language skills:

- English – B1-B2 – Intermediate-Upper intermediate (Required)

Key competences/Computer skills:

- Word processing, Spreadsheets, Databases, Presentation – Independent user

Key competences/Other:

- Communication
- Critical and analytical thinking
- Planning and organizing
- Teamwork
- Intercultural perception
- Initiative
- Reliability

How to apply

Please send CV, cover letter (in English) to Kateřina Šromová, katerina.sromova@upol.cz, as

soon as possible.

Facts

Economic sector: Tertiary education

Size: staff 2 001 to 5 000

Working language/s: Czech, English

Type of work placement: Traineeship

City/Country: Olomouc/the Czech Republic

Earliest start date: March 2022

Latest start date: April 2022

Duration: 3,0 months

Working hours: 40 hours/week (working hours from 08:00 to 16:00)

Remuneration:

Financial contribution: Erasmus+ scholarship in the amount of 800 EUR/month + contribution for travel costs according to final destination

Contribution in kind: none

Application

Required application documents: CV, cover letter (in English) to be sent to Kateřina Šromová, katerina.sromova@upol.cz

Application deadline: as soon as possible