

Kratek opis usposabljanja mladega raziskovalca (*Short description of the Young Researcher's training*)

1. Raziskovalna organizacija (*Research organisation*):

University of Ljubljana, Faculty of Medicine

2. Ime, priimek in elektronski naslov mentorja (*Mentor's name, surname and email*):

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3. Šifra in naziv raziskovalnega področja (*Research field*):

3.04 Oncology

4. Kratek opis usposabljanja mladega raziskovalca (*Short description of the Young Researcher's training*):

Navedite tudi morebitne druge zahteve, vezane na usposabljanje mladega raziskovalca (npr. znanje tujih jezikov, izkušnje z laboratorijskim delom, potrebne licence za usposabljanje...).

slo:

Mladi raziskovalec bo vključen v raziskovalno delo programske skupine Patologija in molekularna genetika Inštituta za patologijo Medicinske fakultete. Raziskovalno delo bo predvidoma potekalo predvsem v Laboratoriju za molekularno genetiko Inštituta za patologijo. V okviru bilateralnih projektov bo imel mladi raziskovalec tudi možnosti za izpopolnjevanje v tujih laboratorijih.

Mladi raziskovalec bo vključen v raziskave kronične vnetne črevesne bolezni (KVČB), s poudarkom na ulceroznem kolitisu ter Crohnovi bolezni. Raziskoval bo molekularno-genetske razlike med ulceroznim kolitisom in Crohnovo boleznijo, razlike med aktivno vnetno boleznijo in remisijo ter razlike med vnetno stenozo in fibrostenozo pri Crohnovi bolezni. Kandidat se bo spoznal z različnimi molekularno-genetskimi metodami, kot so analize izražanja kodirajočih in nekodirajočih RNA, analize metilacijskega in mutacijskega statusa izbranih protein-kodirajočih in nekodirajočih genov. Od kandidata pričakujemo veliko motiviranost za raziskovalno delo, pripravljenost za timsko delo, delavnost, natančnost, samostojnost in iznajdljivost. Zaželeno je osnovno znanje bioinformatike. Obvezno je znanje angleškega jezika.

eng:

A young researcher will be included in research work of the program group Pathology and Molecular Genetics at Institute of Pathology, Faculty of Medicine. The research work will be carried out in the Laboratory for Molecular Genetics at Institute of Pathology. The candidate will have the opportunity to participate in exchanges with research groups abroad through bilateral projects.

The young researcher will be involved in research of Inflammatory Bowel Disease (IBD), with an emphasis on ulcerative colitis and Crohn's disease. He will investigate the molecular-genetics differences between ulcerative colitis and Crohn's disease, the differences between active inflammatory disease and remission, and the differences between inflammatory stenosis and fibrostenosis in Crohn's disease. The candidate will be introduced to various molecular genetic methods, such as analysis of the expression of coding and non-coding RNA, analysis of the

methylation and mutation status of selected protein-coding and non-coding genes. We expect from the candidate a lot of motivation for research work, readiness for teamwork, diligence, accuracy, independence and ingenuity. Basic knowledge of bioinformatics is desirable. Knowledge of English is required.