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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Naziv kolegija** | **METODE UZGOJA STANICA IN VITRO** | | **P** | **S** | | **V** | **ECTS** |
| 15 | - | | 15 | 2 |
| **Studij** | Studij medicinsko laboratorijske dijagnostike | **Šifra kolegija** | | |  | | |
| **Nositelj kolegija** | dr.sc. Mirna Golemovic, dipl.ing.mol.biol. | | | | | | |
| **Nastavnici** |  | | | | | | |
| **Asistenti** | Marijana Škific, mag.mol.biol. | | | | | | |
| **NASTAVNE JEDINICE** | | | | | | **SATI** | |
| **Predavanja** | Organizacija laboratorija za uzgoja stanica in vitro  Rad u sterilnim uvjetima  Odgovarajuca oprema  Osnove stanicne kulture in vitro  Metode pripreme stanicnih suspenzija iz raznih tkivnih izvora Metode selekcija pojedinih stanicnih populacija  Maticne stanice Krvotvorne maticne stanice  Funkcijski testovi, stanicna terapija  Mezenhimske maticne stanice, funkcijski testovi, stanicna terapija  Stanicna terapija | | | | | 3  2  2  2  2  2  2 | |
| **Seminari** |  | | | | |  | |
| **Vježbe** | Priprema stanicnih suspenzija  Uzgoj krvotvornih maticnih stanica in vitro;kratkotrajna kultura stanica in vitro  Uzgoj mezenhimskih maticnih stanica in vitro | | | | | 5  5  5 | |
| **Obaveze studenta** | Prisustvovanje nastavi (student moze izostati sa do 20% fonda sati nastave).  Studenti koji nisu ispunili obavezu prisustvovanja na nastavi moraju položiti kolokvij prije izlaska na ispit | | | | | | |
| **Literatura za kolegij** | Batinic D. , Petrovecki M, Golemovic M. Uzgoj krvotvornih stanica in vitro. U: Batinic D. (editor): Metode istraživanja i . Zagreb: Medicinska naklada; 2004:69-76.  Lourdes M. Caselli-Fernández, Robert Terkola. Clean room environment, personnel, quality assurance and their monitoring. EJHPPractice. 2006;12:29-34.  HG Drexler, WG Dirks, Y Matsuo and RAF MacLeod. False leukemia– lymphoma cell lines: an update on over 500 cell lines. Leukemia 2003;17:416–42.  Bieback K, Kern S, Klüter H, Eichler H. Critical parameters for the isolation of mesenchymal stem cells from umbilical cord blood. Stem Cells. 2004;22(4):625-34.  Ivanović Z, Duchez P, Dazey B, Hermitte F, Lamrissi-Garcia I, Mazurier F, Praloran V, Reiffers J, Vezon G, Boiron JM.A clinical-scale expansion of mobilized CD 34+ hematopoietic stem and progenitor cells by use of a new serum-free medium. Transfusion. 2006 Jan;46(1):126-31.  Tung SS, Parmar S, Robinson SN, De Lima M, Shpall EJ. Ex vivo expansion of umbilical cord blood for transplantation. Best Pract Res Clin Haematol. 2010 Jun;23(2):245-57.  McKenna D, Sheth J. Umbilical cord blood: current status & promise for the future. Indian J Med Res. 2011 Sep;134:261-9.  Dominici M, Le Blanc K, Mueller I, Slaper-Cortenbach I, Marini F, Krause D, Deans R, Keating A, Prockop Dj, Horwitz E. Minimal criteria for defining multipotent mesenchymal stromal cells. The International Society for Cellular Therapy position statement. Cytotherapy. 2006;8(4):315-7.  Fossett E, Khan WS. Optimising human mesenchymal stem cell numbers for clinical application: a literature review. Stem Cells Int. 2012;2012:465259. Benderitter M, Gourmelon P, Bey E, Chapel A, Clairand I, Prat M, Lataillade JJ. New emerging concepts in the medical management of local radiation injury. Health Phys. 2010 Jun;98(6):851-7. | | | | | | |
| **Način održavanja ispita** |  | | | | | | |
| **Dodatne informacije o kolegiju** | **Ispitni rokovi**  **Konzultacije**  **Nastava se održava prema rasporedu objavljenim na mrežnim stranicama studija.** | | | | | | |