***Discipline Cellular culture and biotechnologty for tissue engineering***

***Assignments for the CDS 14.***

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| 1. Айдарханова А.   R*egenerative medicine as part of tissue engineering*
 |
| Асылхан А.   P*rogenitor cells used in tissue engineering* |
| Әбжәми З.   *stem cells used Tissue engineering* |
| Әзімхан О. Immortalized cell lines used tissue engineering |
| Ерғараева А. Artificial skin constructed from human skin cells embedded in a hydrogell, such as in the case of bioprinted constructs for battlefield burn repairs |
| Жақсылыққызы Д. Scaffold-free cartilage: Cartilage generated without the use of exogenous scaffold material. In this methodology, all material in the construct is cellular or material produced directly by the cells themselves |
| Жарылқасын А. Regenerating a human ear using a scaffold |
| Нұрлан Ұ. Methods to construct artificial skin  from human skin cells.  |
| Раисова К. Materials used in tissue engineering  |
| Серимова А. Bioreactors used in tissue engineering |
| Тлеубаева Д. Tissue culture used in tissue engineering |

Mанапов Н. Cartilage: lab-grown tissue was successfully used to repair knee cartilage

Мехманкулова С. Immortalized cell lines used tissue engineering

Сарсенбаева Е. P*rogenitor cells used in tissue engineering*

Сулейменова Д. Regenerating a human ear using a scaffold