Map of teaching methods of discipline

**«*Basics of biotechnology***

(3 credit)

**»**

Graduate «BT05105 Biology**»**

(Преподаватель –профессор Кенжебаева С.С.

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| № | The title of discipline | Authors and title of the textbook | Number in the library of KazNU named after al-Farabi | | | | Number after 2000 year | | | |
| main | | addition | | main | | addition | |
| каз. | рус. | каз. | рус. | каз. | рус. | каз. | рус. |
|  | ***Basics of biotechnology*** | **Основная:** Plant Biotechnology and GeneticsPrinciples, Techniques and Applications. C. Neal Stewart, Jr., Second edition. Publ. Willey. 2016. 399 P.Molecular Cell Biology, 4th edition Harvey Lodish, Arnold Berk, S Lawrence Zipursky, Paul Matsudaira, David Baltimore, and James Darnell.New York: [W. H. Freeman](http://www.whfreeman.com/); 2000.  ISBN-10: 0-7167-3136-3   1. Калашникова Е.А., Кочиева Е.З., Миронова О.Ю. Практикум по сельскохозяйственно» биотехнологии. - М. :Колосс, 2006. - 144 с. 2. Щелкунов С. Н. Генетическая инженерия. — 2. — Новосибирск: Сибирское университетское издательство, 2004. — 496 с. 3. De Jong, R. Enzyme Free Cloning for high throughput gene cloning and expression / R. de Jong, M. Daniёls, R. Kaptein and G. Folkers // J. Struct. Funct. Genomics. — 2006. — V. 7. — P. 109–118. 4. Lee, J. High-throughput T7 LIC vector for introducing C-terminal poly-histidine tags with variable lengths without extra sequences / J. Lee and S. Kim // Prot. Expr. Purif. — 2009. — V. 63. — P. 58–61. 5. Нолтинг Б. Новейшие методы исследования биосистем. - М.:ТЕХНОСФЕРА, 2005. -256 с. 6. Епринцев А.Т., Попов В.Н., Федорин Д.Н. Идентификация и исследование экспрессии генов. Издат. –полиграф. Центр Воронежского госуд. университета. 2008. 64 с.   **Additional:**  1. Ayabe M, Sumi S (2001): A novel and efficient tissue culture method—“stem‐disc dome culture”—for  producing virus‐free garlic (Allium sativum L.). Plant Cell Rep 20:503–507.  Blázquez S, Piqueras A, Serna MD, Casas JL, Fernández JA (2004): Somatic embryogenesis in saffron:  optimization through temporary immersion and polyamine metabolism. Acta Hort 650:269–276. |  | 1  1  5  3  1  3  2  1  5  2  1  1 |  |  | 50  1  5 | 3  1  3  2  1  5  2  1  1 |  |  |