Map of teaching methods of discipline

**«*Physiological basis of plants productuvity***

*Biotechnology NIS daily, 3 course*

(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. | Анг.. | рус. | каз. | рус. |
|  | ***Basics of biotechnology*** | **Основная:**   1. Mechanisms of Plant Growth and Improved Productivity Modern Approaches: Modern Approaches (Books in Soils, Plants, and the Environment) Edited by A. Basra, 2018   Plant Physiology: Photosynthesis, Transpiration, and Respiration 1. Nebraska University.  Atabayeva S., Kenzhebayeva S., Blavanchinskaya L. Stress physiology. ISBN978-601-04-1098-5. 2015, 84 p  Yakushkina N.I., Bakhtenko E.J. Plant physiology. 2018. 466 p.  Plants And Crop Productivity. Edit. Rajaram Choyal  (Author) ‎ Random Publications, 2015  Kristiina Himanen (2015). Cell cycle regulation during plant growth and development, Jörg D. Becker (2012) Decision- Making in the Plant Cell Cycle.Canal BQ-n.9.  Atkin OK, Bloomfield KJ, Reich PB, et al. (2015) Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist 2016: 614–636. 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  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.   1. 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.   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. Kristiina Himanen (2015). Cell cycle regulation during plant growth and development, Jörg D. Becker (2012) Decision- Making in the Plant Cell Cycle.Canal BQ-n.9.  Atkin OK, Bloomfield KJ, Reich PB, et al. (2015) Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist 2016: 614–636.  Калашникова Е.А., Кочиева Е.З., Миронова О.Ю. Практикум по сельскохозяйственно» биотехнологии. - М. :Колосс, 2006. - 144 с.  Щелкунов С. Н. Генетическая инженерия. — 2. — Новосибирск: Сибирское университетское издательство, 2004. — 496 с. |  | 1  1  5  3  1  3  2  1  5  2  1  1 |  |  | 15  1  5 | 3  1  3  2  1  5  2  1  1 |  |  |