

**Molecular Biology Pre-Uni-Study
Program 2017 [10 meetings x (2 h)] = 20 h
Prowadzący: mgr Michael Thoene**

- 1. Introduction to the course**
- 2. Cellular biology**
- 3. Organizational structure of the cell**
- 4. Main functional groups useful in molecular biology**
- 5. Carbohydrate metabolism**
- 6. Lipid metabolism**
- 7. Protein structure and function**
- 8. Enzymes**
- 9. Nucleic acid structure and function**
- 10. The central dogma of molecular biology**
- 11. Genes and chromosomes**
- 12. Mitosis and meiosis**
- 13. DNA repair, replication and recombination**
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- 15. Genetic mutation and its medical consequences**
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- 17. Bacteria and Viruses**
- 18. Antibodies and immunity**
- 19. Cancer**
- 20. Latest Research in Molecular biology**