

Meeting date	Lectures	Algorithms
5/9	Lesson 7. Intro Prediction of protein secondary structure	Neural network
5/16	Lesson 1. Sequence alignment Database search (HWK1, 20%)	Dynamic programming, BLAST
5/23	Lesson 2. Molecular evolution Tree reconstruction	Maximum Likelihood
5/30	Lesson 3. Tree reconstruction (HWK2, 20%)	MCMC
6/6	Lesson 4. Population dynamics	Bayesian Approach Approximate Bayesian Approach
6/13	Lesson 5. NGS data assembling, mapping (HWK3, 20%)	Suffix tree, De Bruijn Graph
6/20	Lesson 6. Profile matching, Ortholog identification	Hidden Markov Model
6/27	Presentation of AI projects 40%	