Schedule for 2	300362 (BBT	ech)		
BIOLOGICAL SEQUENCE	CE ANALYSIS	(3 credits)	
Second sen	nester (2024	.)		
Time: FR 11.00-12.00 Room SCI05 301			Co-ordinator: Veerasak	
Time: WE 13.00-16.00 Room MHVH 508/1				
Topic	Lect	Prac	Date	Instructor
1. Methods and algorithms for sequence alignment	6	6	8-Jan (Prac), 10-Jan	Teerapong
- Pairwise sequence alignment			(Lect), 15-Jan (Prac),	
- Database similarity searching			17-Jan (Lect), 22-Jan	
- Multiple sequence alignment			(Prac), 24-Jan (Lect)	
Methods and algorithms for sequence alignment	2	2	29-Jan (Prac), 31-Jan	Veerasak
- Profiles and Hidden Markov Models			(Lect)	
2. Gene finding and protein sequence analysis	6	6	5-Feb (Prac), 7-Feb	Veerasak
- Gene prediction methods			(Lect), 19-Feb (Prac),	
- Promoter prediction and analysis			21-Feb (Lect), 26-Feb	
- Predictive methods using protein sequences			(Prac), 28-Feb (Lect)	
- Protein structure prediction and analysis				
Mid-term examination:	สอบ 3 - 7 N	ar 2025; T	DF	•
3. Processing of data obtained from DNA sequencers	6	6	12-Mar (Prac), 14-Mar	Supaart
- Assembly of raw data into a contiguous sequence			(Lect), 19-Mar (Prac),	
- Finding open reading frames and translating into amino			21-Mar (Lect), 26-Mar	
acid sequences			(Prac), 28-Mar (Lect)	
4. Sequence analysis tools used in recombinant DNA	6	6	2-Apr (Prac), 4-Apr	Pattana
technology			(Lect), 9-Apr (Prac), 11-	
- Restriction mapping			Apr (Lect), 23-Apr	
- Primer design			(Prac), 25-Apr (Lect)	
- DNA cloning				
- Mutagenesis				
Final-term examination: สอ	ับ 28 Apr - 1	1 4 May 202		l