

Workshop: Insecticidal toxin gene screening and protein profiling from *Bacillus thuringiensis*

Time	Topic
Day 1	
09:00-10:00	Introduction to BIOTEC research and units (Join session)
10:00-10:20	Lab brief : PCR & agarose gel electrophoresis
10:20-11:00	Workshop 1: <i>Bacillus thuringiensis</i> toxin gene screening by PCR <ul style="list-style-type: none"> - PCR reaction preparation - Agarose gel setting
11:00-12:00	Lecture 1: Introduction to <i>Bacillus thuringiensis</i> and its insecticidal toxins (Boonhiang Promdonkoy)
12:00-13:00	Lunch
13:00-13:30	Lab brief: Sample loading & expected results
13:30-16:30	Workshop 1 (continue) <ul style="list-style-type: none"> - Agarose gel electrophoresis - PCR product detection - Discussion & summary
Day 2	
09:00-09:30	Lab brief: Sample preparation & SDS-PAGE
09:30-10:30	Workshop 2: <i>Bacillus thuringiensis</i> protein profile analysis by SDS-PAGE <ul style="list-style-type: none"> - Bt sample preparation - Sample loading & running SDS-PAGE
10:30-10:45	Coffee break
10:45-12:00	Lecture 2: Insecticidal toxins from <i>Bacillus thuringiensis</i> , applications & current research (Boonhiang Promdonkoy)
12:00-13:00	Lunch
13:00-13:30	Lab brief: Polyacrylamide gel staining & expected results
13:30-15:30	Workshop 2 (continue) <ul style="list-style-type: none"> - Gel staining - Destaining
15:30-16:00	Discussion & summary

Workshop instructors from BIOTEC, NSTDA, Thailand

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