## Time Activity (and presenter details) Start Finish 14.00 Participants board arranged transportation from Bangkok 17.00 Participants arrive at VISTEC; check-in at either the Encony Hotel or VISTEC Faculty Center 18.30 20.00 Dinner at VISTEC

## Monday 28th August 2023

Ti	me	Activity (and presenter details)	Location
Start	Finish		
7.30	9.00	<ul> <li>Breakfast at Clubhouse and registration at V building community space (for Faculty Center residents)</li> <li>Breakfast at Encony Hotel and registration at VISTEC auditorium (for Encony Hotel residents)</li> </ul>	VISTEC Clubhouse; V building community space; VISTEC auditorium
9.00	9.20	Welcome message and opening of the workshop by the Protein Society of Thailand	VISTEC auditorium
9.20	9.45	Lecture: molecular principles of CRISPR-based diagnostics Speakers: Danaya Pakotiprapha (Mahidol); Chayasith Uttamapinant (VISTEC)	VISTEC auditorium
9.45	11.15	Short talks and Discussion panel: use cases of CRISPR-based diagnostics in LMICS Panelists: - Navin Horthongkham (Siriraj): TBA - Sunchai Prayungporn (Chulalongkorn): COVID-19 SCAN: CRISPR-based diagnostic kit for SARS-CoV-2 - Phoom Chairatana (Siriraj): TBA - Claire Chewapreecha (MORU): Benchmarking CRISPR-BP34 for point-of-care melioidosis detection in Northeast Thailand - Thawatchai Chaijaraspong (Mahidol): CRISPR detection for diseases in aquaculture Moderator: Danaya Pakotiprapha	VISTEC auditorium
11.15	13.00	Lunch	VISTEC Clubhouse
13.00	15.30	Lab 1: practical session in designing CRISPR-based tests and test components Speakers: Pornchai Kaewspasak (Chulalongkorn) and Thanyapat Wanitchanon (VISTEC)	BSE102
15.30	16.15	Coffee break	BSE
16.15	16.45	Lecture: device designs and fabrication for point-of-care CRISPR tests Speakers: - Pornpat Athamanolap (Mahidol): Advances in magnetofluidics for point-of-care molecular diagnosis	VISTEC auditorium
16.50	17.20	Online lecture: <b>Open science initiatives by eLife</b> Speaker: Ailís O'Carroll (eLife)	VISTEC auditorium
17.20	18.20	- VISTEC campus tour - Visit to V community space for sponsor/company presentations	V building community space
18.30	20.30	Dinner + social activity	VISTEC Clubhouse

## Tuesday 29th August 2023

Time			
Start	Finish	Activity (and presenter details)	Location
7.15	8.30	- Breakfast at Clubhouse (for Faculty Center residents) - Breakfast at Encony Hotel (for Encony Hotel residents)	VISTEC Clubhouse; Encony Hotel
8.30	9.30	Online lecture: Programmable molecular technologies for genome editing and diagnostics Speakers: Omar Abudayyeh and Jonathan Gootenberg (McGovern Institute for Brain Research at MIT, USA)	VISTEC auditorium
9.30	10.00	Lecture: Biochemistry and production of recombinase-polymerase amplification (RPA) Speaker: Aimorn Homchan (VISTEC)	VISTEC auditorium
10.00	11.00	Lectures: Biochemistry and production of Cas enzymes and crRNAs Speakers: - Somsakul Wongpalee (Chiangmai): Laboratory-scale crRNA production: biochemistry and practice - Ruchanok Tinikul (Mahidol): Production of Cas13 enzyme and its stability test	VISTEC auditorium
11.00	12.30	Lunch	VISTEC Clubhouse
12.30	14.30	Lab 2: practical session in preparing and using CRISPR-based tests Speakers: VISTEC and Mahidol teams	BSE102
14.30	15.00	Coffee break	BSE
15.00	16.00	Online lecture: The importance of increasing R&D and local production capability of diagnostics in LMICs Speaker: Marta Fernandez Suarez (FIND-Dx) or a representative from FIND	VISTEC auditorium
16.00	17.00	Online lecture: Open-source toolkits and communities for global diagnostics research Speaker: Jenny Molloy (Cambridge)	VISTEC auditorium
17.00	17.20	Closing remarks by the Protein Society of Thailand	VISTEC auditorium
18.00		Participants board arranged transportation to travel back to Bangkok	