



THE 3rd VIETNAM SCHOOL OF BIOLOGY (VSOB-3)

Bioinformatic Analysis For Bulk RNAseq Data

*December 06th-08th, 2024,
ICISE, Quy Nhon, Vietnam*



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The 1st VIETNAM SCHOOL OF BIOLOGY

**Bioinformatic course:
Microbiome analysis in agricultural work and research**

December 13-14, 2022, ICISE, Quy Nhon, Vietnam

The 2nd VIETNAM SCHOOL OF BIOLOGY

**Genomic analysis of microbial pathogens
using Illumina and Nanopore sequencing**

December 9-11, 2023, ICISE, Quy Nhon, Vietnam

The 3rd VIETNAM SCHOOL OF BIOLOGY

Bioinformatic analysis for bulk RNA-seq data

December 06-08, 2024, ICISE, Quy Nhon, Vietnam

The 4th VIETNAM SCHOOL OF BIOLOGY

Metagenomics for One Health

TBD, ICISE, Quy Nhon, Vietnam

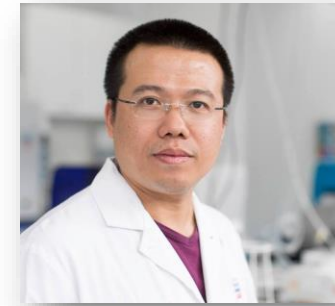
VSOB Organizing & Program Committees



Dr. Tran Thanh Son
ICISE, Quy Nhon



Assoc. Prof. Dr. Nguyen Bao Quoc
Nong Lam University, HCMC



Dr. Nguyen Cuong
Chief Scientific Officer,
LOBI Vietnam



Dr. Vu Minh Thiet
Nguyen Tat Thanh Uni.



Dr. Nguyen Thuy Vy
Uni. of Natural Sciences,
Vietnam National University, HCMC



Dr. Tran Thi Thanh Tam
University of Science and
Technology Hanoi (USTH), VAST



Dr. Do Hoang Dang Khoa
NTT Hi-Tech Institute,
Nguyen Tat Thanh University

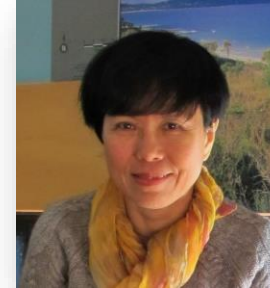
VSOB: Invited Speakers and Lecturers



Prof. Dr. Truong Nam Hai
Institute of Biotechnology, VAST



Prof. Dr. Rajesh Pandey
Institute of Genomic and
Integrative Biology
New Dehli, India



Assoc. Prof. Ho H. T. Duong
Uni. of Science, VNUHCM



Dr. Dương Vũ,
Westerdijk Fungal
Biodiversity Institute,
The Netherlands



Mrs. Pham T. T. Tam
BCE Company Ltd.



Dr. Juliette Hayer
IRD



Dr. Etienne Loire
CIRAD



Dr. Chung The Hao
OUCRU

VSOB: Invited Speakers and Lecturers



Dr. Deeksha Bhartiya
Founder/CEO
Genomiki Solutions, India



Dr. Cong Luan Nguyen
Business Manager,
APAC, Vizgen



Dr. Nguyen Thi Lien Hanh
Institute of Malariaology,
Parasitology and Entomology
(IMPE) Quy Nhon



Dr. Luu Phuc Loi
Tam Anh Research Institute
(TamRI), HCMC



Dr. Vo Sy Nam
Chief Scientist/CTO, Co-Founder, GeneStory
Director, Center for Biomedical Informatics, Vingroup Big Data Institute



Teaching Assistants



Day 1

Day 1: 06/12/2024		
9:00 - 9:30	Welcome & Opening Session	Dr. Tran Thanh Son, Vice Director of ICISE Dr. Nguyen Cuong, Chief Scientist Officer, LOBI Vietnam
9:30 - 10:15	Keynote 1: Beyond the Basics: Innovative Applications of RNA Sequencing in Research	Dr. Deeksha Bhartiya Founder/CEO Genomiki Solutions, India
10:15 - 10:30	Tea Break	
10:30 - 11:15	Fundamental concepts of RNA sequencing experiments	Dr. Nguyen Thuy Vy University of Science, HCMC, Vietnam
11:15 - 12:00	A Guide for Designing and Analyzing RNA-Seq Data	Dr. Nguyen Thuy Vy University of Science, HCMC, Vietnam
12:00 - 13:30	Lunch Break	
13:30 - 17:30 (tea break included)	RNA-seq: Upstream Analysis <ul style="list-style-type: none"> ● Quality control - FastQC ● Trimming ● Mapping ● Mapped post-processing ● Alignment QC 	Dr. Tran Thi Thanh Tam USTH, Hanoi, Vietnam Dr. Do Hoang Dang Khoa Nguyen Tat Thanh University, HCMC, Vietnam

Day 2

Day 2: 07/12/2024		
9:00 - 9:45	Keynote 2: Functional-oriented analysis of multi-omics data in The Vietnam Genome Program: A Perspective	Dr. Vo Sy Nam Chief Scientist/CTO, Co-Founder, GeneStory Director, Center for Biomedical Informatics, Vingroup Big Data Institute
9:45 - 10:30	Keynote 3: Mapping the Future with Spatial Genomics	Dr. Cong Luan Nguyen Business Manager, APAC, Vizgen
10:30-10:40	Tea break	
10:40 - 12:00	RNA-seq: Downstream Analysis ● Gene Counts ● Differential Gene Expression	Dr. Luu Phuc Loi Tam Anh Research Institute (TamRI), HCMC, Vietnam Dr. Vu Minh Thiet Nguyen Tat Thanh University, HCMC, Vietnam Dr. Do Hoang Dang Khoa Nguyen Tat Thanh University, HCMC, Vietnam
12:00 - 13:30	Lunch Break	
13:30 - 17:30 (tea break included)	RNA-seq: Downstream Analysis (cont.) ● Pathway-based Analysis ● Gene ontology analysis ● Bulk RNA-seq databases Gala Dinner	Dr. Luu Phuc Loi Tam Anh Research Institute (TamRI), HCMC, Vietnam Dr. Vu Minh Thiet Nguyen Tat Thanh University, HCMC, Vietnam Dr. Do Hoang Dang Khoa Nguyen Tat Thanh University, HCMC, Vietnam

Day 3

Day 3: 08/12/2024		
9:00 - 9:45	Keynote 4: Recent Advances and Applications of Single cell RNA-Seq in Infectious Diseases Research	Dr. Nguyen Thi Lien Hanh Institute of Malariology, Parasitology and Entomology (IMPE) Quy Nhon
9:45 - 10:30 (tea break included)	RNA-seq: Downstream Analysis (cont.) ● Data visualization/illustration ● Validation	Dr. Luu Phuc Loi Tam Anh Research Institute (TamRI), HCMC, Vietnam Dr. Vu Minh Thiet Nguyen Tat Thanh University, HCMC, Vietnam Dr. Do Hoang Dang Khoa Nguyen Tat Thanh University, HCMC, Vietnam
10:30 - 11:30	● Group Exam ● Q&A	Program committee
11:30 - 12:00	Closing training course & Certificate ceremony	Organizing committee

VSOB



Expectation

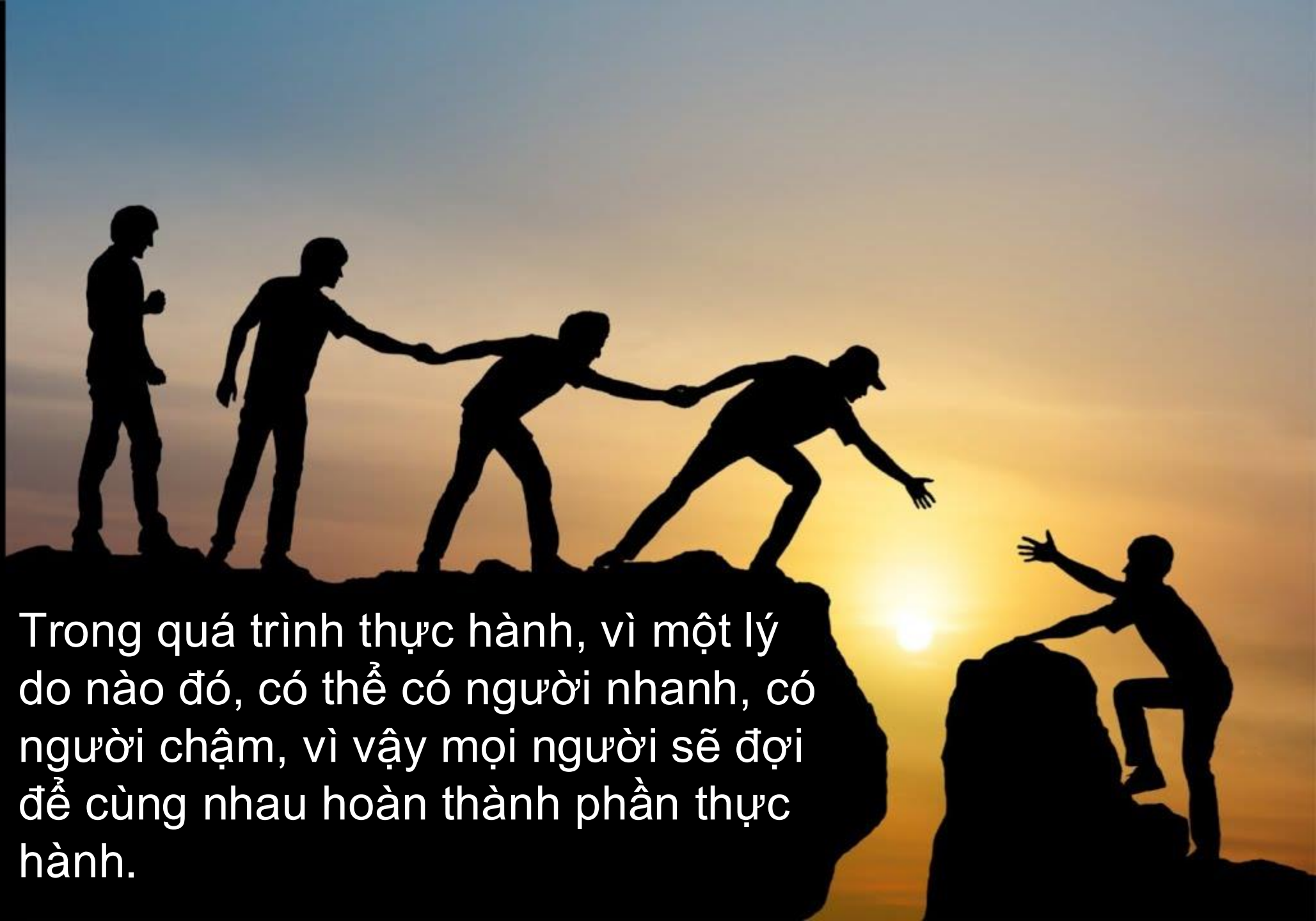


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THE POWER OF ACCOMPANIMENT

Trong quá trình thực hành, vì một lý do nào đó, có thể có người nhanh, có người chậm, vì vậy mọi người sẽ đợi để cùng nhau hoàn thành phần thực hành.



ZALO: ICISE-VSOB3



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