



# YOUR LABORATORY PARTNER

*The Official Lab-Ind Resource Newsletter*

## SUCCESS STORIES



We'd like to congratulate Fadhila, our laboratory technician, for successfully completing the Proficiency Testing organised by Jabatan Kimia Malaysia! This test involved the detection of Porcine DNA in beef.



Congratulations to our other laboratory technician, Nur Izzati, for successfully completing the Proficiency Testing for Koi Herpes Virus (KHV) by Vetqas® UK! KHV test is included in our ISO 17025:2017 scope of testing.

## HOSTING FRIENDS

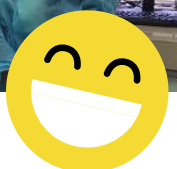


In October 2019, our friends from Vietnam who are on holidays in Malaysia, dropped by our laboratory to observe molecular applications in food safety management system.

We also hosted Prof Dr Kay Lwin Tun and Ms Yu from University of Yangon (Bottom Image), where they came to attend a short training on our detection method for Tilapia Lake Virus (TiLV), a highly contagious disease that is terrorizing the tilapia industry.



**Look at all the smiling faces!!**



# STRENGTHENING OUR PRESENCE IN THE REGIONALS

**"Coming together is a beginning, staying together is progress,  
and working together is success." - Henry Ford**



The participants looked attentive during the training.

## BANGLADESH

From 5 to 9 October, Mr. Leong used his broad experience in molecular testing to facilitate a training on method validation for porcine and bovine detection in feed. The training was organised by the Quality Control Laboratory, Department of Fisheries at Chattogram, Bangladesh.

## THAILAND

On 7 and 8 November, our senior staff members, Mr. Leong and Dr. Kuah, attended the FISH CRP meeting, organised by the WorldFish Organisation. This meeting was focused on information exchange on current diagnostics and surveillance methods for better management practices on tilapia and carp research.

They also met Dr. Win Surachetpong, an immunologist who studies aquatic animal health and diseases, including TiLV.



Top Image: LIR staff and team from WorldFish  
Bottom Image: From left (Dr. Kuah, Mr. Leong, and Dr. Win)



## THAILAND

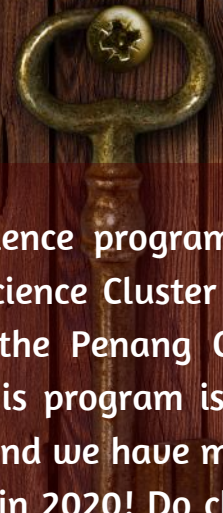
Our business development manager, Mr. Teoh, attended the World Shrimp Trade Conference and Exposition, where he had the opportunity to connect with experts in the aquaculture sector.

During his trip, he also visited our existing POCKIT Xpress customers at a seafood processing plant based at Ranong. They use POCKIT Xpress to screen diseases in raw shrimps.



Top Image: Mr. Teoh and Dr. Melony of GENICS Australia  
Bottom Image: Mr. Teoh and our beloved customer at Ranong

# MAKING BIOTECHNOLOGY ACCESSIBLE TO THE PUBLIC



On October 16, our DNA Science program, in collaboration with Penang Science Cluster and B.Braun, was officiated by the Penang Chief Minister Chow Kon Yeow. This program is the first of its kind in Malaysia, and we have many exciting plans coming ahead in 2020! Do check out our updates on Facebook page - [DNA Science Division of Lab-Ind Resource Sdn Bhd](#)

On 29 November, our Business Development Manager, Mr. Robin was invited to give a talk at the ISB Career Talk and Exhibition at Universiti Malaya. Using his 30 years of experience working in the biotechnology industry, Robin shared with the students about the various opportunities that are available in this industry.



We hope you had an amazing 2019! We sure did, thanks to all of your support over the past year. Here's to an equally great 2020!

Signing off,  
Dr. Tan Ju Lin  
Ms. Winnie Siow

Lab-Ind Resource Sdn Bhd

# THE GS CHRONICLES

*The Official GeneSEQ Newsletter*



## INTERVIEW AT BFM 89.9

In October, we had the opportunity to share some information about food fraud on BFM 89.9. We took this opportunity to create awareness among the public in regards to the impact of food adulteration.

Check out the podcast on <http://manager.bfm.my/did-you-know-about-food-fraud.html>



We were also invited to give a talk at the 3rd International Environment and Food Safety Conference. We took this opportunity to showcase the advantages of using NGS to authenticate food products.

# SPECIALLY FOR YOU!



Are you a Principal Investigator, Student or a Lab Manager? Your NGS run is complete and now you are unsure of what to do with your raw NGS data?

## INTRODUCING THE FIRST **2020** HANDS-ON BIOINFORMATICS WORKSHOP

### WORKSHOP DETAILS:

- Led by a local expert in NGS-based genomics, who has a proven track record of high-impact publications and a strong international research presence.
- Workshop is designed to be hands-on.
- Facilitator ratio is 1:3. This ensures that no one gets left behind!
- Divided into 4 levels and 4 hours each level

#### LEVEL-1

##### Be Comfortable with the Linux Operating System

- (1) Embrace the Ubuntu Operating System - free and open source
- (2) Install and run open-source software
- (3) Explore your entire system folder without using a mouse
- (4) Copy/Backup/Move/Rename thousands of files in less than 10 seconds!
- (5) Edit multiple files without opening them



" Over-reliance on external parties for bioinformatics analysis, especially in the Academia, is unsustainable. "

#### LEVEL-2

##### Be the Magician with Your Sequencing Data

- (1) Understand the raw data and spot sequencing anomalies
- (2) View large sequencing data on your own computer
- (3) Generate quick data summaries on hundreds of FASTQ files
- (4) Submission of sequencing data to NCBI for SRA accession (publication)



**Be the Master  
of Your NGS Data!**

#### LEVEL-3

##### From Puzzles to the Big Picture - Genome Assembly

- (1) Viral and bacterial genome assembly from FASTQ files in 5 minutes
- (2) Assess the genome assembly quality
- (3) Submission of assembly to NCBI for WGS Accession Code (publication)

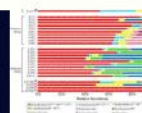


**Bring Your Own Laptop  
& You are Good to Go!**

#### LEVEL-4

##### From Puzzles to Clusters - 16S Metagenomics (V4 region)

- (1) Deploy the popular QIIME2 locally to analyze amplicon data
- (2) Identify thousands of microbes in a sample without culturing them
- (3) Estimate abundance in-silico
- (4) Determine sample diversity
- (5) Group samples based on similarity in their composition and visualize them



**CLICK HERE**

and we will keep you updated about this exciting event!

#NGS #TGS  
#Illumina #Nanopore



## PUBLICATION

We published our third white paper in October 2019 (focusing on the effect of feed additives, probiotics, and prebiotics to the change of microbial population in an animal gut).

"From the establishment of **GENESEQ** to our successful NGS runs, this year has definitely been an eventful one for us!

Moving into 2020, we will continue to expand our services to serve a wider scope of industry"

SIGNING OFF,

DR. TAN JULIN  
MS. WINNIE SIOW

GENESEQSDN BHD

# CHECK THESE OUT :

Application of NGS in Evaluating the Efficacy of Feed, Probiotics, and Prebiotics Formulation  
- *GeneSEQ White Paper*



Access to our previous white papers, newsletters, and articles

