

# **Zoology Newsletter**

November 2017 Volume 07 NO 07



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## TRAINING WORKSHOP

MICRO MANIPULATION & MICRO INJECTION OF INSECT DISEASE VECTORS



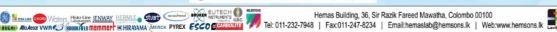


# MICRO MANIPULATION AND MICRO INJECTION OF INSECT DISEASE VECTORS

November 21, 2017

Department of Zoology, Faculty of Science, University of Jaffna

Hemsons International (Pte) Ltd





















Our 3rd international workshop on "Transgenic insects micromanipulation and microinjection of insect disease vector" on the 21st November 2017. Vice Chancellor UOJ, Dean science & Head Zoology have been invited as guests and students and staff from 8 different universities were participated in this workshop.

"Insect vectors in Sri Lanka is transgenics a way forward" was the first lecture which has been conducted by Prof.S.N. Surendran and he has suggested different molecular techniques to manage insect vectors' population with the theme of population reduction and population suppression.

As a continuation of professor's lecture, our resource person Mr.Channa Aluvihare from University of Maryland, USA, has conducted his lecture on "Creation and maintenance of transgenic insects" and it was followed by laboratory sessions on micro injection. Then there was an online lecture on practical design and synthesis of Guide RNA for CRISPR cas 9 technology which was conducted by Mr.William Reid from University of Maryland And the workshop was concluded with awarding of certificates.

Congratulations to Prof. S.N. Surendran and his team



Hemsons International (Pte





















# DISSEMINATION OF KNOWLEDGE



Department of Zoology was requested by the Primate conservation project of Sri Lanka to work on questionnaire regarding the huge problem of monkeys in Thenmarachchi area. Three members from SPEARS foundation were actively involved in the survey with guidance of Ms. Surendrane Cabrel. Along with their team, Ms. Suntharavathani from agriculture research station, Thirunelveli and Ms. K.Kayavathani & Mr. S.Arthiyan from Department of Zoology has joined in the survey.

This survey was an interesting experience and knowledge sharing with public. The conversation with the people gave us more enthusiasm to work on that field in future as well. Thenmarachchi is an important area and being as a main contributor for the economical status of Jaffna Peninsula. But, they felt very sorry on the impacts from monkeys. We have collected the fact that if there is no monkey in their area they will contribute ten times in the economy of Jaffna than that of today. Because the monkeys migrated from the forest cause enormous losses to their farms and cultivations along with the house destructions.

The survey aims to design a possible insurance cover to the victims based on their annual economical losses due to the conflict of monkeys.

Main problems caused by monkeys in that areas are listed below:

- 1. Stealing things from the house and the kitchen
- 2. Damaging roofs by Jumping
- 3. Breaking off the branches of the trees having ripen fruits
- 4. Damage the buds of the coconut tree
- 5. Behave aggressively with ladies

Interesting one school has developed a chasing mechanism using the principle of resonance where that sound source produces unbearable noise within the restricted boundary of monkey attack. Therefore, the monkeys were chased off from that place. But unfortunately, if monkeys adapted to these frequencies, we have to change the frequency. This is the only drawback of that system. As a part of the survey, we were giving some suggestions to chase monkeys away from the garden & had a wonderful



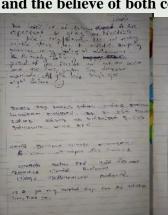




#### APPRECIATION FROM PROVINCIAL DIRECTOR AGRICULTURE

This is an another evidence to show that our products are the best & Zoology always produce demandable graduates...

Based on the request from PD/Agriculture to Head Zoology, our students and graduate staff were participated in this exhibition and this is coordinated by Dr.(Mrs).R.Gnaneswaran & Dr.K.Gajapathy. Both of them gave the theme of the exhibition and some instructions to our students. With that they let the students to work on their own ideas. The smartness & willingness of the students and the believe of both coordinators in students were reflected in the exhibition very well.



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DEPARTMENT OF AGRICULTURE, NORTHERN PROVINCIAL COUNCIL

இல: 466/01, நூற்றுற்பி அவன்பு, நாவலி விதி, பாழ்ப்பாணம் கை: 466/01, தூற்றைக்கி ஏற்றது, கூறேறி கூர், வச்சை No: 466/01, Moothathampy Avenue, Navalar Road, Jaffna

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##### 2017/10/02

Date

Dr.Mrs.R.Gnaneswaran Head Department of Zoology Faculty of Science University of Jaffina

#### Provincial Agricultural Exhibition 2017

We were able to conduct the Provincial Agricultural Exhibition – 2017 on the theme of "Market Focused Climate SMART Sustainable Agriculture" jointly at the complex of District Agriculture Training Centre, Agriculture Research Station, Artificial Insemination Centre and Veterinary Surgeon Office, Palaly Road, Thirunelvely Jaffna from 19th to 23th September, 2017 with the participation of your esteemed organization and many stakeholders of the agriculture development.

You gave the excellent leadership in organizing the exhibits under the caption of "Sustainable Agriculture through Integrated Bio Diversity Management" in a way meaningful to the participants. The staff and students of your department actively participated in it. They demonstrated the exhibits and provided necessary explanation in appropriate manner to the participants with greater enthusiasm and dedication. They were able to maintain this approach consistently throughout the day. In addition, they were very good at communicating to the spectators and team members, and maintained cordial relationship with them even under stressful situation. As such, you and your staff and students greatly contributed to the success of the exhibition.

I have the firm hope that Farmers, Farm Women, School Children, Staff of the Government and Non Governmental Institutions, University Staff and Students, Members of the Community Based Organization and Project Beneficiaries of Government and Non Government Organization who participated in this exhibition as spectators and benefitted will remember your greater service for ever.

On behalf of the staff of the Provincial Department of Agriculture (NP), I am earnestly thanking you and your staff and students for having given the excellent contribution for the success of the exhibition and look forward same in future too please.





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# WORKSHOP: HANDS ON TRAINING ON HERPETOLOGY



Dr. Abyerami Sivaruban & Dr. T.W.Shanthakumar has organized a workshop on "Hands on training on Herpetology – Amphibians". Dr.(Mrs).A. Sivaruban is basically a herpetologist & her research focus is on vertebrate biology where she has specialized in herpetofauna. At present, she is engaging the projects on avifaunal diversity. Dr.(Mrs).T.W. Shanthakumar is focus on Aquatic animal biology, physiology and molecular biology & she has worked on gene expression analysis with special reference to molecular immunology of fish and shellfish..







# University of Jaffna, Sri Lanka

# Workshop Hands on Training of Herpetology – Amphibians

Department of Zoology, Faculty of Science,
University of Jaffna

14th DECEMBER, 2017

The workshop is designed to provide hands on training to learn basic field techniques, field sampling and identification of Amphibians and making awareness to conserve Amphibians

#### Target Group:

Undergraduate and Postgraduate students, Researchers, Academic, Non-academic and Supporting staff

#### Resource Person:

Dr. (Mrs). Abeyrami Sivaruban

Herpetologist

Senior Lecturer, Department of Zoology,

University of Jaffna

Registration Fee:

For students: 500 LKR; Others: 1000 LKR

#### Contact for early registration & other inquires

Dr. (Mrs). T.W. Shanthakumar Dr.

T.P : 0779980471

E-mail : thulasiwilliam@gmail.com

Dr. (Mrs). A. Sivaruban

T.P : 0773506501

E-mail : abyerami@gmail.com

## WISHES AND GREETINGS FROM ZOOLOGY



Ms. J.M.C.Rufeena , one of our graduate student has now been appointed as ENVIRONMENTAL OFFICER , in the Central Environmental Authority (CEA) for Northern region.

She was an outstanding student from our department and has actively participated in all the cultural activities and the sports activities in her undergraduate.

She is now reading her master degree program on Environmental Science in the postgraduate institute of Peradeniya as well.

Congratulations to you and on behalf of Department of Zoology, we all wish you for your better services to the Environment and Our nation in your future endeavors



On behalf of Department of Zoology, Advanced Merry merry Christmas and Happy New Year 2k18 to you all



Hi Graduates,

Congratulations to you on your Big Day- 33<sup>rd</sup> General convocation (08.12.2017)

EDITOR ZOO NEWSLETTER

**November 2k17**