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ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)
GOVINDPURI, KALKAJI, NEW DELHI 110 019

Dr. Sarita Kumar
Associate Professor
Department of Zoology

Ref: AND/IPAV/SP-02/20
Dated: 1st June, 2020

Ms. Aadhya Sivakumar
Sanskriti School
Chanakyapuri
New Delhi – 110 021

Ref: Your request for Summer Project
Sub.: Joining letter

Dear Aadhya,

I am pleased to inform you that your request for the Summer Project in 'Insect Pest and Vector Laboratory' of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, June 1, 2020.

Wish you all the best.

(Dr. Sarita Kumar)

Insect Pest and Vector Laboratory



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Dr. Sarita Kumar
Associate Professor
Department of Zoology

Ref: AND/IPAV/SP-03/20
Dated: 1st June, 2020

Ms. Addea Gupta
Sanskriti School
Chanakyapuri
New Delhi – 110 021

Ref: Your request for Summer Project
Sub.: Joining letter

Dear Addea,

I am pleased to inform you that your request for the Summer Project in 'Insect Pest and Vector Laboratory' of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, June 1, 2020.

Wish you all the best.

(Dr. Sarita Kumar)

Insect Pest and Vector Laboratory



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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that the Dissertation work entitled "**Variations in physiological parameters in dengue vector *Aedes aegypti* L. induced by chemical insecticides (Imidacloprid and Cypermethrin)**" has been carried out by **Ms. Anushree Gupta**, Enrollment no. A12137520020, Amity Institute of Virology and immunology, as a part of NTCC Dissertation (BTDS600) work.

The work has been done under my supervision and guidance at **Acharya Narendra Dev College (University of Delhi)** for a period of **Jan 3, 2022** to **June 6, 2022**. During the project work, the candidate has learnt techniques like insect culture, insecticide dilutions, insecticide susceptibility bioassays, scrutinization of morphological and physiological parameters in mosquito larvae, sex discrimination between adult mosquitoes and statistical analysis.

(Sarita Kumar)

Professor



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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that the Dissertation work entitled "**Reversion of resistance in *Aedes aegypti* using microsomal monooxygenase inhibitor**" has been carried out by **Ms. Apoorva Rajput**, Enrollment no. M17921139, Institute of Management Studies, affiliated to CCSU, Ghaziabad, Uttar Pradesh.

The work has been done under my supervision and guidance at **Acharya Narendra Dev College (University of Delhi)** for a period of **Jan 15, 2022** to **June 6, 2022**. During the project work, the candidate has learnt techniques like insect culture, insecticide dilutions, making molar solutions, insecticide susceptibility bioassays, centrifugations, ELISA, spectrophotometry and statistical analysis of data.

(Sarita Kumar)

Professor



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Dr. Sarita Kumar
Professor
Department of Zoology

Ref: AND/IPAV/SP-04/21
Dated: April 1, 2021

Mr. Atharv Gupta
The Shri Ram School Mousari
Gurugram
Haryana – 122 002

Sub.: Joining letter

Dear Atharv,

I am pleased to inform you that your request for the Summer Project in ‘Insect Pest and Vector Laboratory’ of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, April 1, 2021.

Wish you all the best.

(Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that Miss Kajal, D/o Karambir, VPO Ahar District Panipat, Haryana, did her Internship on the topic entitled "**Evaluation of botanicals as potential ecofriendly toxicants and growth regulatory agents against *Aedes aegypti***" under my guidance during March - August 2022.

(Sarita Kumar)

Mentor



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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that Ms. Nayan Katyal, pursuing M.Sc. Biotechnology at Amity Institute of Biotechnology, Amity University, Noida, has successfully completed 1-month extensive training on the topic entitled “**Toxicity, irritancy and alteration in biochemical parameters induced by deltamethrin and α -cypermethrin in the dengue vector *Aedes aegypti* L.**” under my guidance during July 6 – August 7, 2021.

During the training, she meticulously maintained the culture of *Aedes aegypti*, and conducted larvicidal and irritant assays to study the efficacy of pyrethroid insecticides on the *Aedes* mosquito. She also investigated the impact of these insecticides on different detoxification enzymes in the larvae, learnt all the techniques and handled various equipment efficiently.

(Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that Ms. Nayan Katyal, pursuing M.Sc. Biotechnology at Amity Institute of Biotechnology, Amity University, Noida, has successfully completed extensive training on the topic entitled “**Formulation, Characterization and Evaluation of Dinotefuran Nanometric Emulsion Bioefficacy against *Dysdercus koenigii***” under my guidance during Jan 3 – May 15, 2022.

During the training, she meticulously maintained the culture of *Dysdercus koenigii*. She formulated nanoemulsions of dinotefuran, learnt all the techniques involved and handled various equipment efficiently. She characterized these nanoemulsions, analysed them, investigated their impact on *Dysdercus koenigii* and studies various parameters.

(Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that Ms. Priyanka Verma, pursuing M.Sc. Biotechnology at Amity Institute of Biotechnology, Amity University, Noida, has successfully completed extensive training on the topic entitled “**Assessment and Characterization of Imidacloprid’s Nanometric Emulsion Effectiveness against *Dysdercus koenigii***” under my guidance during Jan 3 – May 15, 2022.

During the training, she meticulously maintained the culture of *Dysdercus koenigii*, formulated nanoemulsions of imidacloprid, learnt all the techniques involved and handled various equipment efficiently. She investigated impact of these nanoemulsions on *Dysdercus koenigii* and assessed various life parameters. The nanoemulsions were characterized and analysed for their properties.

(Sarita Kumar)

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Dr. Sarita Kumar
Associate Professor
Department of Zoology

Ref: AND/IPAV/SP-05/20
Dated: 1st June, 2020

Ms. Deepanshi
Delhi Public School
R.K. Puram
New Delhi – 110 022

Ref: Your request for Summer Project
Sub.: Joining letter

Dear Deepanshi,

I am pleased to inform you that your request for the Summer Project in ‘Insect Pest and Vector Laboratory’ of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, June 1, 2020.

Wish you all the best.

(Dr. Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Ref: AND/IPAV/SP-02/21
Dated: April 1, 2021

Mr. Devaj Gupta
Delhi Public School International
Pushp Vihar
New Delhi – 110 057

Sub.: Joining letter

Dear Devaj,

I am pleased to inform you that your request for the Summer Project in 'Insect Pest and Vector Laboratory' of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, April 1, 2021.

Wish you all the best.

(Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that Ms. Priyanka Verma, pursuing M.Sc. Biotechnology at Amity Institute of Biotechnology, Amity University, Noida, has successfully completed 1-month extensive training on the topic entitled “**Lethality, irritancy and variation in biochemical parameters of *Aedes aegypti* L. imparted by β -cyfluthrin synergized with piperonyl butoxide**” under my guidance during July 6 – August 7, 2021.

During the training, she meticulously maintained the culture of *Aedes aegypti*, conducted larval toxicity assays and irritancy effects of the synergized pyrethroid on the *Aedes* mosquito. She also investigated the impact of these insecticides on different larval enzymes, learnt all the techniques and handled various equipment efficiently.

(Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Ref: AND/IPAV/SP-01/21
Dated: April 1, 2021

Mr. Karmanyaraj
Doon School
Dehradun
Uttarakhand – 248 001

Sub.: Joining letter

Dear Karmanyaraj,

I am pleased to inform you that your request for the Summer Project in ‘Insect Pest and Vector Laboratory’ of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, April 1, 2021.

Wish you all the best.

(Dr. Sarita Kumar)

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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that the Dissertation work entitled " **Biochemical alterations in *Aedes aegypti* L. as a defence mechanism to xenobiotics (Cyhalothrin and malathion)**" has been carried out by **Ms. Manya Jaiswal**, Enrollment no. A12137520019, Amity Institute of Virology and immunology, as a part of NTCC Dissertation (BTDS600) work.

The work has been done under my supervision and guidance at **Acharya Narendra Dev College (University of Delhi)** for a period of **Jan 3, 2022** to **June 6, 2022**. During the project work, the candidate has learnt techniques like insect culture, insecticide dilutions, making molar solutions, insecticide susceptibility bioassays, ELISA, spectrophotometry and statistical analysis of data.

(Sarita Kumar)

Professor



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Dr. Sarita Kumar
Associate Professor
Department of Zoology

Ref: AND/IPAV/SP-04/20
Dated: 1st June, 2020

Ms. Riddhi Jhunjunwala
The British School
Chanakyapuri
New Delhi – 110 021

Ref: Your request for Summer Project
Sub.: Joining letter

Dear Riddhi,

I am pleased to inform you that your request for the Summer Project in 'Insect Pest and Vector Laboratory' of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, June 1, 2020.

Wish you all the best.

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Dr. Sarita Kumar
Associate Professor
Department of Zoology

Ref: AND/IPAV/SP-01/20
Dated: 1st June, 2020

Ms. Saiesha Gupta
50, Golf Links
New Delhi – 110 003

Ref: Your request for Summer Project
Sub.: Joining letter

Dear Saiesha,

I am pleased to inform you that your request for the Summer Project in ‘Insect Pest and Vector Laboratory’ of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, June 1, 2020.

Wish you all the best.

(Dr. Sarita Kumar)

Insect Pest and Vector Laboratory



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Dr. Sarita Kumar
Professor
Department of Zoology

Certificate

This is to certify that the Dissertation work entitled "**Reversion of resistance in *Aedes aegypti* using microsomal monooxygenase inhibitor**" has been carried out by **Ms. Shailja Mathur**, Enrollment no. A12137520021, Amity Institute of Virology and immunology, as a part of NTCC Dissertation (BTDS600) work.

The work has been done under my supervision and guidance at **Acharya Narendra Dev College (University of Delhi)** for a period of **Jan 3, 2022 to June 6, 2022**. During the project work, the candidate has learnt techniques like insect culture, insecticide dilutions, making molar solutions, insecticide susceptibility bioassays, centrifugations, ELISA, spectrophotometry and statistical analysis of data.

(Sarita Kumar)

Professor



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GOVINDPURI, KALKAJI, NEW DELHI 110 019

Dr. Sarita Kumar
Professor
Department of Zoology

Ref: AND/IPAV/SP-03/21
Dated: April 1, 2021

Mr. Yanav Lall
Modern School
Barakhamba Road
New Delhi – 110 001

Sub.: Joining letter

Dear Yanav,

I am pleased to inform you that your request for the Summer Project in ‘Insect Pest and Vector Laboratory’ of Acharya Narendra Dev College, University of Delhi; has been accepted and you have been officially registered.

The Project work starts with effect from today, *i.e.*, April 1, 2021.

Wish you all the best.

(Sarita Kumar)

Insect Pest and Vector Laboratory