

“WEBINAR ON INTERNATIONAL TEST GUIDELINES AND METHODS FOR NANO SAFETY”

22nd -23rd July, 2021 (14:00 PM to 16.00 PM IST)

02:00 PM - 02:10 PM, 22nd July (Day 1) – Welcome Address
Dr Vibha Dhawan, Director General, TERI

*02:10 PM - 04:00 PM - Session-I: in vivo Assessment of Nano -Safety using Zebrafish, Fruit-fly
and pre-clinical model systems*

Moderator: Dr Pushplata Singh, TERI Deakin Nanobiotechnology Centre (TDNBC), TERI, India

Rapporteur: Ms. Shweta Gehlout and Ms. Drishti, TDNBC, India

Time	Programme
02:10 PM - 02:25 PM	Zebrafish as a Model to Evaluate Nanoparticle Toxicity by using tests for mortality, teratogenicity and alterations in reproduction– Dr Aaron Schultz, Deakin University, Australia
02:25 PM – 02:45 PM	Metal oxide nanoparticles toxicity: phenotypic abnormalities and altered cellular mechanisms in Drosophila melanogaster model- Dr Ekta Kohli from DIPAS, New Delhi
02:45 PM - 03:00 PM	Assessment of Nanoparticles safety in-vivo: Regulatory Perspective - Dr. Sarat Kumar, Vipragen Biosciences Private Limited, Kochi
03:00 PM - 03:15 PM	Talk by a young researcher: OECD TG FET 236 for assessing acute toxicity in zebrafish embryos-- Lalinka Herath, Affiliation: University of Columbo, Sri Lanka and School of Life and Environmental Sciences, Deakin University, Australia
03:15 PM – 03:45 PM	Videos from lab: 1. Eco-Nano-safety assessment using <i>C. elegans</i> as a model system- Video by Ms. Ayushi Priyam, TDNBC, Gurugram 2. Eco-Nano-safety assessment using OECD TG 201 and Microalgae as model system – Video by Ms. Natasha & Mr. Anurag TDNBC, Gurugram
03:45 PM – 04:00 PM	Q/A Session and discussion by the Speakers

23rd July, 2021 (Day 2)

02:00 PM - 04:00 PM - Session-II: Assessment of Nanotoxicity using Ex vivo and
in vitro model systems and in silico tools

Moderator: Dr Palash Manna, TDNBC, TERI, India

Rapporteur: Ms. Aksha Dhawan and Ms. Natasha Yadav TDNBC, India

Time	Programme
02:00 PM – 02:15 PM	In silico Models For The Safety Prioritization Of Specialty Chemicals- Genotoxicity QSAR- Dr. Parthasarathi Ramakrishnan CSIR-Indian Institute of Toxicology Research, Lucknow
02:15 PM – 02:30 PM	Nanosafety assessment of biologically synthesized agriculturally useful nanomaterials for humans– Dr. Pushplata Singh, TDNBC, TERI, New Delhi
02:30 PM-02:45 PM	Talk by a young researcher Using test guidelines for working in vitro with mammalian cells – Ms Ayushi Priyam, TDNBC, TERI, New Delhi, India and School of Life and Environmental Sciences, Deakin University, Australia
02:45 PM – 03:15 PM	Assay-Dependent Phytotoxicity of Nanoparticles to Plants- Dr Rita Choudhary, TDNBC, TERI
03:15 PM - 03:30 PM	Videos from lab: 3. Phytotoxicity studies for potential effects of nanomaterials (OECD TG 206, 227) - Video by Dr Rita Choudhary and Ms Shweta Gehlout, TDNBC, TERI 4. Eco-Nano-safety assessment using <i>bacteria</i> as model system (ISO guidelines)- Video by Ms. Drishti Garg and Ms Natasha Yadav, TDNBC, TERI 5. Eco-Nano-safety assessment using <i>earthworm</i> as a model system (OECD 207)- Video by Ms. Drishti Garg, TDNBC, TERI
03:30 PM to 04:00 PM	Q/A Session and discussion by the Speakers

Group Photograph



ENERGY



AGRICULTURE



ENVIRONMENT



HABITAT



RESOURCE
SECURITY



CLIMATE



HEALTH
& NUTRITION

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1. All the Panelists and discussants will have full rights to mute/unmute, share presentation and video.
2. Participants may raise their hands to ask question at the end of a presentations in Session I and Session II. If time permits right for asking question/interaction will be given to the participants.
3. In session III, rights to participants on raising their hands will be given.
4. Rights to all participants to share their video will be given for a Group photograph at the end of the webinar.