

Special Session of
The 13th Annual Conference of Center of Excellence
on
“The Role and Challenges of
Environmental Health in National Development”

On Thursday 28th October 2021
(for 30th January 2021)

At 13.00 – 15.30

Online via Zoom Program

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Chairpersons: **Assoc. Prof. Dr. Rojana Sukchawalit**
 Dr. Poonsakdi Ploypradith

SESSION 1: **IMPACTS OF CHEMICALS AND CLIMATE CHANGE ON HUMAN**
HEALTH AND DISEASE DEVELOPMENT AND FACTORS
MODULATING SUCH IMPACTS

13.15-13.20	Shila Prajapati, M.Sc. Student, (CGI) ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) AND METALS BOUND TO PM _{2.5} AND ITS EFFECTS ON DNA DAMAGE
13.20-13.25	Nourhan Elsayed, M.Sc. Student, (CGI) ARSENIC IMPAIRS IGF-1 SIGNALING IN DIFFERENTIATED HUMAN NEUROBLASTOMA SH-SY5Y CELLS
13.25-13.30	Nutsira Vajeethaveesin, M.Sc. Student, (CGI) EFFECT OF 2,4-D HERBICIDE ON INFLAMMATORY RESPONSES AND FUNCTIONS OF LPS-STIMULATED MACROPHAGE CELLS
13.30-13.35	Preeyanut Rattanayut, M.Sc. Student, (CGI) PROTECTIVE EFFECTS OF MELATONIN AGAINST OXIDATIVE DAMAGE IN ARSENITE-TREATED LYMPHOBLASTS
13.35-13.40	Discussion

SESSION 2:**DEVELOPMENT OF BIOLOGICALLY ACTIVE COMPOUNDS FOR
CONTROL, PREVENTION AND TREATMENT OF ENVIRONMENTAL
HEALTH PROBLEMS/DISEASES**

13.40-13.45 **Sireethon Khotsombat, M.Sc. Student, (CGI)**
AZIDE-ACTIVATED CASCADE CYCLIZATION OF ENE-YNE-OXAZOLONE

13.45-13.50 **Naiyana Saesian, M.Sc. Student, (CGI)**
CASCADE CYCLIZATION OF ENE-YNE-OXAZOLONE: REGIOSELECTIVE
SYNTHESIS OF PHOSPHORYLATED BENZOXACINAMIDE

13.50-13.55 **Rikkamae Zinca Marie L. Walde, M.Sc. Student, (CGI)**
CHEMOPREVENTIVE AND ANTI-HIV-1 POTENTIAL
OF *Angiopteris evecta* (Forst) Hoffm. (GIANT FERN)

13.55-14.00 **Klaichan Boonkanta, M.Sc. Student, (CGI)**
DEVELOPMENT OF BIOLOGICAL REAGENT
FOR IMMUNOGENICITY ASSAY OF MONOCLONAL ANTIBODY DRUG

14.00-14.05 **Arisa Wonglangka, M.Sc. Student, (CGI)**
DEVELOPMENT OF IN VITRO IMMUNOGENICITY ASSAY
FOR MONOCLONAL ANTIBODY DRUG

14.05-14.10 **Safi Ur Rehman Qamar, M.Sc. Student, (CGI)**
MAGNETIC TITANIUM SILICA IRON OXIDE (TiO₂-Si-Fe)
NANOPARTICLE AS AN ALTERNATIVE THERAPEUTIC AGENT
AGAINST PATHOGENIC BACTERIA

14.10-14.15 **Disapan Suriyawipada, M.Sc. Student, (CGI)**
OPTIMIZATION OF CHIMERIC VLPs EXPRESSION PLATFORM FOR
VACCINE DEVELOPMENT FOR VIRUSES WITH COMPLEX GENOME

14.15-14.20 **Teerasak Surapha, M.Sc. Student, (CGI)**
ROLE OF A COLICIN E5 IN RESPONSE TO HYDROGEN PEROXIDE
IN A HUMAN PATHOGEN *Pseudomonas aeruginosa*

14.20-14.25 **Watayuth Luechaipanit, M.Sc. Student, (CGI)**
SPEEDING UP MONOCLONAL ANTIBODY PRODUCTION
BY USING POLYETHYLENEIMINE (PEI)-MEDIATED TRANSIENT
GENE EXPRESSION IN LARGE-SCALE BIOREACTOR

SESSION 2: (continued)

14.25-14.30 **Tanawat Phumjan, M.Sc. Student, (CGI)**
STUDIES OF ACID-MEDIATED TRANSANNULAR CYCLIZATION OF
EIGHT-MEMBERED RING CYCLOALKENE AND CYCLOALKANE EPOXIDE

14.30-14.35 **Tirawit Meerod, M.Sc. Student, (CGI)**
HEXACYCLIC MARINE PYRROLE ALKALOIDS MODULATE
INTEGRATED STRESS RESPONSE (ISR) IN CANCER CELLS

14.35-14.40 **Yaiprae Chatree, Ph.D. Student, (CGI)**
MUTATIONS OF *Stenotrophomonas maltophilia* CONFER
RESISTANCE TO MULTIPLE ANTIBIOTICS

14.40-14.45 **Poonyaporn Kanawong, Ph.D. Student, (CGI)**
SEARCHING FOR SUBSTANCES HAVING ANTIMICROBIAL ACTIVITY
AND MULTIDRUG EFFLUX PUMP INHIBITOR AGAINST
Stenotrophomonas maltophilia FROM NATURAL PRODUCT
AND CHEMICAL LIBRARIES

14.45-14.50 **Discussion**

SESSION 3: **INNOVATIVE TECHNOLOGY FOR PRODUCTION, DETECTION,
TREATMENT, DETOXIFICATION, REMEDIATION, REDUCTION,
REUSE AND RECYCLING OF CHEMICALS**

14.50-14.55 **Sajana Khagi, M.Sc. Student, (CGI)**
THE CONTENTS OF 2,4-D, ATRAZINE AND CHLORPYRIFOS
IN ORGANIC AND CONVENTIONALLY GROWN VEGETABLES

14.55-15.00 **Sunisa Chaicherd, Ph.D. Student, (SCTX)**
DETECTION OF TRACE ARSENIC (III, V) IN AQUEOUS SOLUTION
USING DMSA FUNCTIONALIZED GOLD NANOSHELLS

15.00-15.05 **Jurairat Chittrakanwong, Ph.D. Student, (CGI)**
STUDY ROLE OF TRMA ENZYME IN OXIDATIVE STRESS RESPONSE
IN *Pseudomonas aeruginosa*

15.05-15.10 **Discussion**

15.10-15.20 **CONCLUDING SESSION**