

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

**On Thursday 28<sup>th</sup> October 2021  
(for 30<sup>th</sup> January 2021)**

**At 13.00 – 15.30**

**Online via Zoom Program**



**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<sub>2.5</sub> 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 (TiO<sub>2</sub>-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 NANOSHHELLS
- 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**

