

Report on International Conference on Natural Products and Human Health-2020

The Department of Zoology, Deshbandhu College, University of Delhi, Delhi organized an International Conference on Natural Products and Human Health-2020 at University of Delhi, Delhi, India from February 27-29, 2020. The conference was supported by University Grants Commission, Indian National Science Academy, Council of Scientific and Industrial Research, Department of Biotechnology and Punjab Sind Bank. The conference was convened by Dr. Sunil Kayesth under the leadership of Dr. Rajiv Aggarwal, Principal, Deshbandhu College. Dr. Kamal Kumar Gupta and Dr. Varsha Baweja, were the co-conveners of the conference. The conference was inaugurated with a pre-conference workshop in collaboration with Delhi Pharmaceutical Science Research University at DPSRU on 26th February, 2020. Prof. Ramesh K. Goyal, Vice Chancellor, Delhi Pharmaceutical Sciences Research University was the chief guest as well as first keynote speaker. He inaugurated the conference and delivered a mind boggling talk on Promotion of traditional herbal medicines in Asian countries through phyto-pharmaceutical drug development regulation.

Dr. Pratap Chauhan, Director and Founder of Jiva Ayurveda, shared his acumen and vast knowledge of ayurveda to the participants. His talk was focused mainly on health and happiness through Ayurveda. He also shared tips for healthy life style and mesmerized the audience with lots of home remedies for various common diseases.

Each day, the conference was divided into three sessions, invited talks, oral presentations and poster presentations. The posters were presented after the oral presentation on first and second days. There were 14 invited and 11 eminent talks on various and diverse kinds of topics in human health. Dr. Shikha Sharma, nutritionist and founder Nutri Health talked about role of superfoods in human health. The second invited lecture was given by Dr. Vladimir Zarubae, Professor at Saint-Petersburg Pasteur Institute, Russia on anti-viral compounds based on the scaffolds of plant secondary metabolites. Dr. Anju Shrivastava, Professor in Department of Zoology, University of Delhi, highlighted on the natural products and cancer prevention: lifestyle, inflammation and cancer issues. Dr. Chea Sin, Faculty of Pharmacy, University of Puthisastra, Phnom Penh, Cambodia shared his findings on ethnobotanical survey of medicinal plants used by the communities residing in Banteay Srei district, Siem Reap province, Cambodia. Dr. Prasoon Gupta, Scientist at Department of Natural Product Chemistry, Indian Institute of Integrative Medicine, Canal Road, Jammu, India gave an invited talk on high throughput discovery of anticancer molecules from Ayurvedic crude drug: *Roscoea purpurea*. Dr. Veeranoot Nissapatorn, Associate Professor, at School of Allied Health Sciences, Southeast Asia Water Team (SEA Water Team) and World Union for Herbal Drug Discovery, Walailak University, Nakhon Si Thammarat, Thailand delivered on *Curcumina longa* ethanol extract inhibits the growth of *Acanthamoeba triangularis* trophozoites and cysts isolated from reservoirs at Walailak University, Thailand. Dr. Veeranoot was a key person and contributed a great role in organizing this conference. The 7th invited talk was given by Dr. Rima Dada, Professor at Laboratory for Molecular Reproduction and Genetics; Anatomy Department, All India Institute of Medical Sciences, New Delhi, India on impact of yoga on complex diseases and unexplained infertility impact of yoga. She also enlightened the participants with Indian old and heritage system of yoga for human wellbeing's through scientific approaches. Dr. Julius Meneses, Vice President for Planning, Research and Extension Services, Rizal Technological University, Boni Avenue, Mandaluyong City, Philippines

threw light on sustaining research interest in natural products in the academic setting. The 9th invited lecture was given by Dr. Richa, Doctor at Department of Radiation Oncology, Lady Hardinge Medical College and SSK Hospital New Delhi, India on role of dietary factors in cancer prevention. Dr. Himanshu Ojha, Scientist at CBRN Protection and Decontamination Research Group, Division of CBRN Defence, INMAS, DRDO, Delhi, India delivered a very interesting talk on Curcumin-loaded liposomes for wound healing: preparation, optimization, in-vivo skin permeation and bioevaluation. Dr. R. Mogana, a Faculty of Pharmaceutical Sciences, UCSI University, No. 1 Jln Menara Gading, UCSI Heights, Cheras, Kuala Lumpur, Malaysia shared her research results on antimicrobial resistance (AMR): biodiversity and therapeutic potential of Malaysian medicinal plants. The 12th invited talk was by Dr. S. Chandramathi, Department of Medical Microbiology, Faculty of Medicine, University of Malaya, 50603 Kuala Lumpur, Malaysia on antimicrobial peptides against *Streptococcus pneumoniae*: potential activities of synthetic peptides derived from Indolicidin and Ranalexin. The last invited talk was delivered by Dr. M. L. Pereira, Department of Medical Sciences, University of Aveiro, Aveiro, Portugal on How safe is *Verbena officinalis* L. in physical exercise?

Other than invited talks, there were 11 talks from eminent participants who showcase their research activities and results on different aspects and on various topics of the conference theme natural products and human health. Dr. Neera Kapoor, Prof. at School of Sciences, IGNOU, New Delhi, India gave a presentation on assessment of impact of climate change on vector borne diseases in India. Dr. Harish Chandra, Scientist at RSRS, Central Silk Board, Sahaspur, Dehradun and ICSR & TI, Pampore, J&K, India showed his research results on nitro fert biofertilizer prepared from local strain of mulberry garden and comparison with other popular strain. Dr. Kamal Kumar Gupta, associate professor, Department of Zoology, Deshbandhu College, University of Delhi, Delhi, India gave his presentation on application of insect plant interactions in integrated pest management. Dr. Sarita Kumar, associate professor, department of Zoology, Acharya Narendra Dev College, University of Delhi, Govindpuri, New Delhi, India showed her results on acetamiprid resistance in *Aedes aegypti*: evaluation of metabolic detoxification and target site mutations as defense mechanisms. Dr. Indrakant K Singh, assistant professor, Department of Zoology, Deshbandhu College, University of Delhi, New Delhi, India gave his presentation on crafting insect-specific tools for IPM using RNA interference & omics techniques". Dr. Richa Misra, assistant professor at department of Zoology, Sri Venkateswara College, University of Delhi gave a presentation on role of microbiome in tuberculosis: Understanding the *Gut-Lung axis*. Dr. Ruby Mishra, assistant professor, Department of Chemistry, Deshbandhu College, University of Delhi, showed her research results on effects of chemicals present in personal care products (PCPs) on health and environment. Dr. Mahaveer Dhobi, associate professor, School of Pharmaceutical Sciences, Delhi Pharmaceutical Sciences and Research University, New Delhi, India shared his observations on exploration of aravali biodiversity herbal wealth for the development of phytopharmaceuticals. Dr. S. Hameed, associate professor, Amity Institute of Biotechnology, Amity University Haryana, Gurugram, Manesar, India gave presentation on natural food flavoring agent vanillin as promising antifungal compound of clinical interest.

Including the invited talks and presentation by eminent participants, there were 63 oral presentations and 66 poster presentations which were successfully conducted in this three –day scientific events. Other than Delhi, participants from different states of India have contributed their papers in the various sub-themes, namely, *utility of natural products* in cancers or tumours,

tuberculosis and other infectious diseases, non-infectious diseases, vector-borne diseases, diabetes and lifestyle diseases, sustainable agriculture and yoga and super foods in human health. The conference was also witnessed with energetic yoga performance given by students of Deshbandhu College on the second day of the conference. Also, the artists from Sahitya Kala Parishad presented various dance forms from various states of India and Brij Holi with multicolour flowers.

The **second international conference** on natural products and human health was announced to be held and hosted in Melia, Philippines by **Dr. Julius Meneses**, Vice President for Planning, Research and Extension Services, Rizal Technological University, Boni Avenue, Mandaluyong City 1550, Philippines in 2020-21. The guest of honor for the valedictory session was Dr. Omkar Rai, Director General, Software Technology Park of India. He talked about how modern technology like artificial intelligence could be used to check adulteration in health products. At the end, a valedictory speech and vote of thanks was given by Dr. Sunil Kayesth, Convener of International Conference on Natural Products and Human Health-2020.











