Pharmaceut Reg Affairs 2012, 1:4
http://dx.doi.org/10.4172/2167-7689.S1.008

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference and Exhibition on
Pharmaceutical Regulatory Affairs

November 23-24, 2012 Hyderabad International Convention Centre, India

Nano technology – a recent trend to sustain development of foliage and novel drug discovery for eco-friendly medicinal plan

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Nanoscience and nanotechnology are rapidly evolving fields that have potential to revolutionize not only to the food systems but also in the field of agriculture science especially for medicinal plants. It can seek to address some of the critical sustainable development problems in the areas of agriculture, biodiversity, water, energy, health and environment and ecosystem management when it tandem with other measures. Nanotechnology has potential applications in controlling nutrient release and availability, characterization and weathering of soil minerals, soil properties, nutrient ion transport in soil plant system, zeoponics, water conservation, water treatment and efficient management of soil and ground water pollution. Hence nano-fertilizers help to sustain increase of plant growth as compared to normal which lead to accumulation of higher amount of active principles. Even nano-particles of medicinal herb drugs possess many benefits, such as improving component solubility, enhancement of bioavailability, increasing absorbency of the organism, reducing medicinal herb doses, and achieving steady-state therapeutic levels of drugs over an extended period compared with traditional herb drug preparations. Furthermore, specific surface modifications and new design strategies of herbal drug nano-particles are created to profit clinical applications in cosmetic science and drug discovery.

Biography

Raman Dang has completed his PhD at the age 34 years from Bangalore University, India. He is a senior Professor at Al-Ameen College of Pharmacy, Bangalore, India. He has published more than 50 papers in National and International Journals. He has presented more than 60 papers in International and National Conferences and Symposiums. He has chaired many scientific sessions in India and Abroad. He is Associate editor of Bio-Med Journal and on the editorial board of RGUHS Journal of Pharmaceutical sciences, Indian Journal of Pharmaceutical Education and Research (IJPER). He is a member of RGUHS PhD Committee. He has guided more than 45 students for their M.Pharm and 04 Students for their PhD. He is an executive member of Association of Pharmaceutical Teachers of India and Secretary Alumni Association of Al-Ameen College of Pharmacy, Bangalore.

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Regulatory affairs a challenge to professionals

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Regulatory affairs Professionals are having a very important role in Pharmaceutical Industry right from Development and throughout the life cycle of products. In this highly regulated industry, regulatory affairs occupies very crucial role and these professionals should give Strategic and Technical advice to top level Management. Regulatory professionals makes interface between Pharmaceutical Industry and Regulatory Authorities. Regulations laid down by one country need not match the regulations of other country and for export, it is expected that through knowledge of regulation of particular country is necessary to prepare Registration data. The Regulatory professionals should have a good communication skill as they are in contact with every department of the company as well as Regulatory Agencies. Professionals should be aware and retain all relevant worldwide Legislations and Guidelines which may affect the activities of the Organization.

CHALLENGES

Regulatory professionals should interpret the scope and consequences arising from Legislation and inform Organization accordingly. Submission of accurate Registration Documents to regulatory authorities, otherwise there may be a chance to lose the reputation of the company. Presentation of information collected to the regulatory authorities and feed back their opinion to appraise the staff about current thinking of the Regulatory. Up to date knowledge of changes occurred in the Regulatory system. A broad Analytical frame of mind and collection of latest information will be the success of the Regulatory Professional. Scientifically accurate and knowledgeable professionals will boost the company's value added reputation.

Biography

S N KILIKAR has completed his graduation in Chemistry from Kerala University, India in the year 1973. He is having an experience in Pharmaceutical Industry for more than 37 years in the field of QC, PRODUCTION and GMP Implementation including Validation. Now he is working as a CONSULTANT to support Pharmaceutical units to develop new Facilities, Documentation, Validations and other cGMP requirements. He is conducting many Training programmes including for sterile manufacturing. Technical audits are conducted to rectify and upgrade the systems to cGMP level. Three AYURVEDA manufacturing units are set up in Kerala conforming to cGMP standards.

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