

## TITLE

### 'New' Drugs & International Regulatory Mechanisms

**S. V. Eswaran**

St. Stephen's College, (University of Delhi),  
Delhi-110007, India

"The big players" continue to dominate the medicinal scene and such parameters are important when 'incurable' diseases set in. Prevention rather than 'treatment' of diseases needs to be emphasized. Interactions between hitherto undetected disease causing proteins ("small players") are being targeted, whereby newer and better drugs are awaited in the forthcoming era of personalized medicine.

Anti-fungals based on "Click" reaction have been developed by the author. Fifty five years since the discovery of the last vitamin, Pyrroloquinoline quinone (PQQ) is now recognized as the 14<sup>th</sup> vitamin. To be useful as a vitamin, it has to be available at low cost. The author's work on "true nitrene" based homo and hetero bifunctional crosslinkers for proteomics and lipidomics could be useful for chemical crosslinking-mass spectrometry based rapid and reliable high throughput screening (HTS) of large number of samples routinely. Soluble Fullerenes and SWCNT developed in my laboratory have been shown to be compatible with blood for nano-drug delivery.

Norms for drug approvals becoming very stringent worldwide, discovery of new drug entities has now become very difficult. As ways are found for overcoming these, many issues arise, which need to be adjudged in an equitable and fair manner. Serving as a 'Local Commissioner' in cases of drug firms at an international level has been a learning experience for the author. The use of modern instrumentation for regulatory purposes is to be strongly advocated. Open Source Drug Discovery (OSDD), a laudable initiative has also provided the author much needed stimulus.

#### Biography

Dr S. V. Eswaran, Head, Chemistry Department and Dean, (Academics), St. Stephen's College, University of Delhi, Delhi and has taught there for 42 years. Served as Principal, Deshbandhu College, Delhi for two years and as a member for many national committees. Ph. D., Delhi, 1973; Post-Doc. Max Planck, Munich, 1976-77; Heidelberg, Karlsruhe, 1984; Goettingen, 1997, Germany; TU, Delft, Netherlands, 1990; Ohio State University, 1997; Brown University, 2006, USA. Best teacher award, 2007; distinguished teacher award, 2009; DADD fellowship, 1976-77. Published 60 papers, granted many patents and supervised 4 Ph. D. and 21 M. sc/ M. Tech.. thesis.