

Advances in Chemical and Applied Sciences - Vol 2
 Editors : Mridula Tripathi
 Santosh K. Srivastava, Roli Srivastava
 ISBN : 978-93-88018-17-3
 Edition : 2019

Indigenous Medicinal Systems: Metallo-medicines Ayurvedic Bhasmas As Potential Nanomedicines

Anand Prakash Mishra*

Introduction:

(Hindu Chemistry- A Reservoir of Indigenous Knowledge in Chemical Sciences). Biomedical applications of inorganic chemistry (Elemental Medicine) is an emerging research area of pharmaceutical chemistry. It offers potential for the design of novel therapeutic and diagnostic agents and hence for the treatment and understanding of diseases which are currently intractable. Moreover, it is evident that many organic compounds used in medicine including antibiotics and enzymes do not have a purely organic mode of action; some are activated or bio-transformed by metal ions, including metalloenzymes, others have a direct or indirect effect on metal ion metabolism. The involvement of non-metallic inorganic compounds in the mechanism of action of organic drugs is also important.

The interest in uses and application of inorganic chemistry in medicine continues to expand for the reasons first due to very rich traditions in Indian treasure of wisdom Vedas (*Sarvey bhavantu sukhinah, Sarvey santu niramayah*), and secondly due to commercialisation of knowledge on health i.e. Patentization. Major international conferences in recent past such as the International Conference on Bioinorganic Chemistry (ICBIC) and the European Conference on Bioinorganic Chemistry (EUROBIC), now contain a significant fraction of presentations dedicated to 'metals in medicine'. The Gordon Research Conference dedicated a full session on aspects of metals in medicine (July 2002). Recent dedicated volumes/ sections in 'Metal Ions in Biological Systems' the

ADVANCES IN CHEMICAL AND APPLIED SCIENCES

VOL 2



Editors

Mridula Tripathi
Santosh K. Srivastava
Roli Srivastava

CHEMICAL SOCIETY, C M P COLLEGE

2 M.G. Marg, George Town, Prayagraj - 211002