Regd. No. 16423/68

Proceedings of the Indian National Science Academy

Vol. 54, Part B, No. 1 February 1988

CONTENTS

Page

The Bires Chandra Guha Memorial Lecture, 1987: Biochemical Detection, Aetiology *and* Functional Consequences of Riboflavin Deficiency **Mahtab S Bamji** 1

The Chandrakala Hora Memorial Medal Lecture 1987: The Problem of Biodeterioration along the Indian Coasts and Its Impact on Fisheries **N Balakrishnan Nair** 7

Role of Adrenal Hormones on the Turnover of Chemical Constituents and the Activities of Two Hepatic Enzymes in *Anabas testudineus* (Bloch) **T P Jameela** and **Oommen V Oommen** 25

Scent Marking Behaviour of Wild and Laboratory-bred Indian Desert Gerbils, *Meriones hurrianae* **Ishwar Prakash, Md Idris** and **G R Soni** 31

Nephrotoxic and Hepatotoxic Effects of Citrinin in Mice (*Mus musculus*) **K S Bilgrami, S P Sinha** and **Punam Jeswal** 35

Ontogeny of Some Krebs Cycle Enzymes in Human Fetal Testes **Chhabi Datta, Jayati Dasgupta, Trishna Sengupta** and **D Sengupta** 39

Effects of Plumbagin on Growth and Development of Red Cotton Bug, *Dysdercus cingulatus* F. **N K Joshi, K M Lathika, A Banerji** and **M S Chadha** 43

Oxygen Consumption of an Oligochaete, *Metaphire houlleti* as a Function of Neuroendocrine Manipulations **R V Bevedre** and **G K Kulkarni** 47

Hydroxysteroid dehdrogenases in the Testis of the Silkworm, *Bombyx mori* (L) (Lepidoptera, Bombycidae): A Histochemical Study **H K Hurkadli, M A Hooli** and **V B Nadkarni** 51

Phloem Exudation Studies of *Gmelina arborea* Roxb. through Severed Stylet of *Coridien janus* (Fabricius) **N S Bhat** and **M Manjunath** 57

Leaf Dynamics of Two Bamboo Species (*Neohouzeua dulla* A. Camus and *Dendrocalamus hamiltonii* Nees and Arn.) in Successional Environments in North-East India **K S Rao** and **P S Ramakrishnan** 65

Biomass and Productivity of Chir pine (*Pinus roxburghii* Sarg.) Forest in Central Himalaya **B S Rana, S P Singh** and **R P Singh** 71

Studies on Growth and Activity of Photosynthetic Enzymes in *Sorghum biocolor* (L) as Influenced by Micronutrients **K Arvind Kumar, Vidyasagar Rao** and **K V N Rao** 75

Studies on Status of Iron and Aluminium in Some Terai and Teesta Alluvial Soils of West Bengal **A K Dolui, P Chandran** and **A K Nayek** 81

Effect of Stable Bleaching Powder (Klorocin) on Bacterial Leaf Blight (BLB) *and* Yield of Paddy **T Ganesan, Shaheen Jehan, P Annamalai** and **D Lalithakumari** 89

Ultrastructure and histochemistry of Angiosperm Embryo Sac — An Overview **M R Vijayaraghavan, Neeru Seth** and **Alka Jain** 93

Published by the Executive Secretary, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi-110002 and Printed by him at the Rakmo Enterprises, 2509, Gali Naiwara, Chawri Bazar, Delhi-110006