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# Contents

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Foreword.....	v
Preface .....	vii
List of contributors.....	ix

## SECTION-A: LIVESTOCK AND THEIR CONTRIBUTION TO GLOBAL WARMING

1	Impact of Indian livestock on environment and strategies to mitigate greenhouse gases from ruminants to reduce global warming .....	1
	<i>A.K. Srivastava</i>	
2	Contribution of Ruminants towards global warming in India vis a vis the world .....	15
	<i>Sunil Kumar Sirohi, Poonam Pandey, Madhu Mohini</i>	
3	Effect of global climate change on livestock productivity .....	27
	<i>S.V. Singh, R.C. Upadhyay, Ashutosh, Beenam, Mangesh M. Vaidya</i>	
4	Impacts of climate change on animal functions and productivity .....	39
	<i>R.C. Upadhyay, Smita Sirohi, Ashutosh, S.V. Singh, Prava Mayengbam, Dipak Banerjee, Rita Rani, Anil Kumar and Syma Ashraf</i>	
5	IPCC methodologies of enteric methane budget from livestock .....	55
	<i>Smita Sirohi</i>	

**SECTION-B: DIVERSITY OF RUMEN MICROBES**

- 6 Harnessing the diversity of rumen microbes using molecular approaches ..... 65  
*Prasanta Kumar Choudhury, Sunil Kumar Sirohi, Anil Kumar Puniya and Prem Prashant Chaudhary*
- 7 Diversity and geographical distribution of rumen methanogens ..... 83  
*Prem Prashant Chaudhary, Sunil Kumar Sirohi and Haidar Ali Ahmed*
- 8 Biochemistry, bioenergetics and genetics of methanogenesis in rumen methanogenic archaea ..... 103  
*Nasib Singh and Sunil Kumar Sirohi*
- 9 Diversity of rumen methanogens in dairy animals ..... 121  
*S.S. Paul*

**SECTION-C: NUTRITIONAL MANAGEMENT FOR ABATEMENT OF GHGs**

- 10 Mitigation options for enteric methane emissions from dairy animals ..... 125  
*Sunil Kumar Sirohi, Madhu Mohini and Anil Kumar Puniya*
- 11 Dietary manipulation for minimizing methane production from dairy animals ..... 143  
*S.S. Kundu and Prakash Bala*
- 12 Use of essential oils for methane mitigation from ruminants ..... 153  
*S.K. Tomar and S.M. Shete*
- 13 Role of tannins and saponins in rumen methane reduction ..... 163  
*Raghavendra Bhatta*
- 14 Use of alternate electron acceptors as feed additives to inhibit methanogenesis in rumen ..... 171  
*D.N. Kamra*
- 15 Dietary lipids, protozoa and ruminal methane production ..... 177  
*Bhupinder Singh*
- 16 Saponins as a promising agent for rumen methane mitigation ..... 213  
*Navneet Goel and Sunil Kumar Sirohi*

- 17 Role of fats in dairy animals and their potential in methane mitigation ..... 235  
*Goutam Mondal, Rakesh Sheel, Brishketu Kumar, M. Bhakat*
- 18 Plant bioactives as rumen fermentation modulators ..... 257  
*Poonam Pandey, Navneet Goel and Sunil Kumar Sirohi*
- 19 Possibilities to mitigate methane emissions from dairy animals with acetogens and methane oxidizing microbes ..... 285  
*S.S. Kundu and Nisha Jha*
- 20 Biological approaches for reducing methane generation in ruminant ..... 293  
*Anil Kumar Puniya, Sumit Singh Dagar, Sanjay Kumar and Sunil Kumar Sirohi*
- 21 GHG emission from manure and the role of bypass protein feeding in reducing nitrogen excretion and improving its utilization in ruminants ..... 301  
*T.K. Walli*
- 22 Role of methane emitted by ruminants in global warming and its mitigation with plant secondary metabolites ..... 317  
*D.N. Kamra*
- 23 Scope of greenhouse gases trading from livestock sector ..... 331  
*Smita Sirohi*

**SECTION-D: IN VITRO FERMENTATION, RUMINANT IN VIVO AND MOLECULAR METHODS**

- 24 Hungate roll tube method for culturing of rumen microbes ..... 341  
*Sumit Singh Dagar and Anil Kumar Puniya*
- 25 *In vitro* fermentation techniques used to study the rumen ecosystem ..... 351  
*Brishketu Kumar, Poonam Pandey, Navneet Goel and Sunil Kumar Sirohi*
- 26 *In vivo* methane estimation in ruminants using ventilated hood systems ..... 367  
*Raghavendra Bhatta, Tomoyuki Suzuki and Mitsunori Kurihara*
- 27 Estimation of methane using sulphur hexafluoride (SF<sub>6</sub>) method ..... 375  
*Madhu Mohini and Sunil Kumar Sirohi*

28	Isolation and maintenance of rumen microorganisms .....	379
	<i>Prasanta Kumar Choudhury, Sumit Singh Dagar and Sunil Kumar Sirohi</i>	
29	Applications of molecular biology techniques in the study of rumen microbial diversity .....	393
	<i>Amit Bhattacharya, Prem Prashant Chaudhary, Sumit Singh Dagar, Prasanta Kumar Choudhury and Sunil Kumar Sirohi</i>	
	About the Editors .....	417

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Section A

***Livestock and their Contribution to Global Warming***

# Livestock Greenhouse Gases:

## *Emission and Options for Mitigation*

*This book presents extensive and updated information about the current developments towards the abatement of methane and other greenhouse gases originated from livestock. Greenhouse gases such as methane and nitrous oxide contributed by livestock are of worldwide concern as these are responsible for global warming as well as animal productivity. Significant efforts have been made by the researcher in different parts of the world to understand the process and mechanisms of global warming with specific emphasis on methanogenesis. We have compiled the information on enteric methane and nitrous oxide production from dairy animals, its impact on global warming and strategies to mitigate these GHGs in a simple, illustrative, and coherent manner, so that students, scientists, academicians and others involved in animal nutrition and animal production science at national or international level will be benefitted. The book covers all aspects of role of ruminants in global warming, rumen microbial diversity, methanogenesis pathway and various biological and non-biological approaches to mitigate anthropogenic methane release. In the end book also covers a variety of techniques for measuring rumen fermentation parameters, culturing and maintenance of anaerobic rumen bacteria and fungi, methanogens, and latest molecular approaches to investigate the rumen microbial diversity and quantification of methanogens are also included. Editors believe that the book will be of immense help to the investigators involved in the field of animal nutrition.*



**SATISH SERIAL PUBLISHING HOUSE**

403, Express Tower, Commercial Complex, Azadpur, Delhi - 110033 (India)

Phone : 011-27672852, Fax : 91-11-27672046

E-mail : [info@satishserial.com](mailto:info@satishserial.com), [hkjain1975@yahoo.com](mailto:hkjain1975@yahoo.com)

Website : [www.satishserial.com](http://www.satishserial.com)



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