

Chapterwise keywords

- 1.1. Experimental design, treatments, experimental unit, rumen environment, digesta fractions, microbial diversity, sampling, variability, heterogeneity, dynamics
- 2.1. Rumen, microbiology, media, culturing, anaerobic, enzyme assays
- 2.2. Bacteriophage, rumen, virus, bacteria, DNA, lysis, isolation, characterization
- 2.3. Methanogens, isolation, culture, enumeration, storage, identification, diversity, archaea, hydrogen utilization, methane, mycoplasmas
- 2.4. Rumen, micro-organism, anaerobe, anaerobic fungi, rumen fungi, growth, maintenance, cultivation, culture, batch, continuous
- 2.5. Counting, culture, identification, preservation, protozoa, rumen, sampling, staining
- 3.1. DNA, RNA, extraction, real-time PCR, RT-PCR, RAP-PCR, probes, primers, rumen
- 3.2. Real-time PCR, SYBR Green, relative expression, quantification, anaerobic, rumen, fungi, bacteria
- 4.1. DGGE, genomic DNA isolation, TGGE, 16S-rDNA fingerprinting techniques
- 4.2. Rumen, virus, phage enumeration, DNA extraction, nucleic acid characterization
- 4.3. Fungal community, ribosomal markers, ITS1, DGGE, molecular fingerprints
- 4.4. RAPD, RFLP, T-RFLP, RISA, rumen, ecology, 16S rDNA, PCR
- 5.1. Rumen bacteria, rumen fungi, rumen methanogens, rumen protozoa, small sub-unit rRNA, phylogenetic analysis, ribotyping, RFLP
- 6.1. Northern blot analysis, 16S-rDNA probes, oligonucleotide probes
- 6.2. FISH, rumen, oligonucleotide probe, *in situ* 16S rDNA probes
- 6.3. FISH–MAR, microautoradiography, *in situ* physiology, *in situ* microbial activity
- 7.1. Rumen microbiology, biotechnology, genomics, rumen function, subtractive hybridization, cloning techniques, DNA isolation, BAC vectors, fosmid vectors, unculturable microbes

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