

Germfree And Gnotobiotic Animal Models Background And Applications

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The germfree animal is reared in the laboratory to be bacteria free; its counterpart, the gnotobiotic animal, is exposed to select microorganisms. The need for such an animal model for use in biomedical studies was first expressed by Pasteur in the late 1800s. Subsequent development of germfree and gnotobiotic animals led to an explosion of studies on the effects of microflora and its components on the physiology and metabolism of the host.

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During the 1960s R. B. Wescott had tried to establish the parasitic helminth *Nematostrioides dubius* in germfree (GF) mice. Vieira's group of Brazilian workers have studied the mammalian part of the life cycle of *Schistosoma mansoni* in GF and CV mice after obtaining the GF cercariae from GF snails.

Parasitology | Germfree and Gnotobiotic Animal Models ...
The germfree animal is reared in the laboratory to be bacteria free; its counterpart, the gnotobiotic animal, is exposed to select microorganisms. These animal models are used extensively in biomedical research to study the effects of specific microorganisms on the host animal.

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A gnotobiotic animal is an animal in which only certain known strains of bacteria and other microorganisms are present. Technically, the term also includes germ-free animals, as the status of their microbial communities is also known. However, the term gnotobiotic is often incorrectly contrasted with germ-free .

Gnotobiosis - Wikipedia
Germ-free organisms are multi-cellular organisms that have no microorganisms living in or on them. Such organisms are raised using various methods to control their exposure to viral, bacterial or parasitic agents. When known microbiota are introduced to a germ-free organism, it usually is referred to as a gnotobiotic organism, however technically speaking, germ-free organisms are also ...

Germ-free animal - Wikipedia
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Germ-free mice are one class of gnotobiotic animals, but mice associated with defined bacterial communities (e.g. Altered Schaedler's Flora) are also considered gnotobiotic. Gnotobiotic animals are kept in isolators for long-term maintenance of their microbiological status, although various caging systems can allow for alternate husbandry solutions .

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