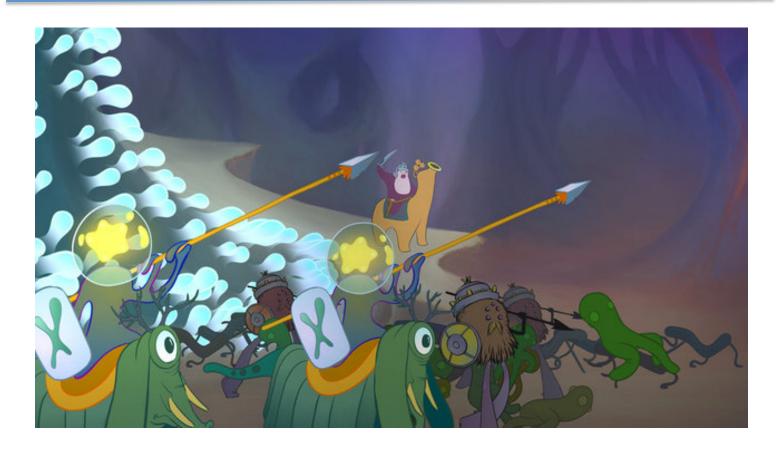


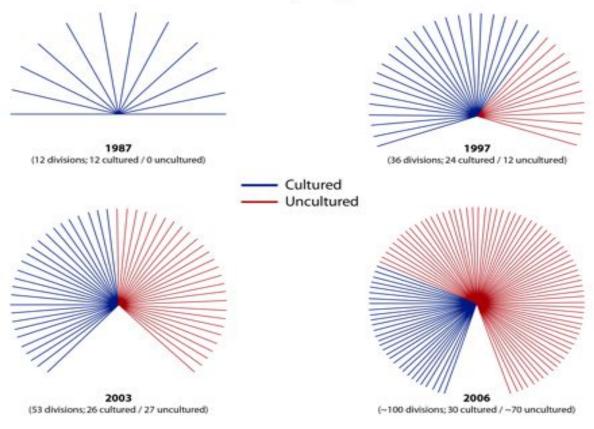
Microbiome 1.0



The invisible universe of the human microbiome

Characterization of microbial communities is enabled by culture independent techniques

Known Bacterial Phylogenetic Divisions



165 rRNA

2238 Nucleic Acids Research, Vol. 18, Supplement

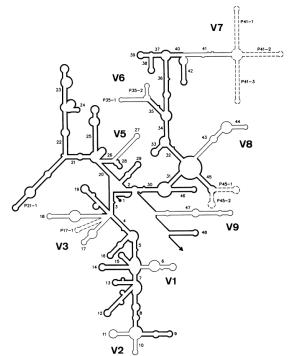


Fig. 1. Secondary structure model for prokaryotic stRNAs.

The 5'-terminas is symbolized by a filled circle and the 3'-terminas by an arrowhead. Helices are numbered in the order of occurrence from 5'- to 3'-termina by an arrowhead. Helices bearing a single number are common to the prokaryotic and eularyotic (Fig. 2) models. A composite number proceeded by P points to a prokaryote-spec helic. Relatively-conserved areas are drawn in hold liters, areas of sequence—and length variability in fails line. Eight variability and line. Eight variability and line. Eight variability and line. Eight variability and lines in Eight variability and lines Eight variability and lines. Eight variability and lines area, numbered v1'-yel distinguished. V4 being absent in prokaryotic stRNAs. Helices drawn in broken lines are present in a small number of known structures only. Archaelsacterial sequer follow the revolucearie nature nearest feet being 35 which is unbranched as in eachier.

This is not a new science!

SOME OBSERVATIONS ON THE STUDY OF THE INTESTINAL BACTERIA.

By ARTHUR I. KENDALL.

(From the Laboratory of Dr. G. A. Herter, New York.)

(Received for publication, September 14, 1909.)

The alimentary canal may be regarded from the point of view of bacterial processes within it, as a singularly perfect incubator; an incubator in which there is provided at different levels such a range of reaction and diversity of food that not only are the conditions suitable for the growth of the normal habituated intestinal bacteria but often also for those organisms, capable of developing at body temperature, which are ingested with the food of the host.

An idea of the truly enormous daily bacterial proliferation which takes place in the intestinal tract may be obtained if one remembers that a considerable portion of the fecal mass is made up of the bodies of bacteria, dead and living. At the same time the multiplicity of types and variety of physiological requirements of this intestinal flora are indications of the excellence of the incubator and a strong reminder of the influence which the unrestrained activity of these organisms might conceivably exercise upon the general condition of the host.

The possibilities of bacterial invasion through the intestinal portal of entry have not been overlooked by investigators, and, indeed, among the most brilliant chapters of medicine are those concerning the etiological relationships which have been demonstrated between certain pathogenic bacteria of exogenous origin and specific diseases of the intestinal tract, for example, typhoid, cholera and dysentery.

The very importance of these discoveries has been a potent factor in diverting attention from the studies of the normal intestinal flora with its wealth of problems relating to the principles which govern the activity of these bacteria. Even at the present time the sequence of events which permits the establishment of

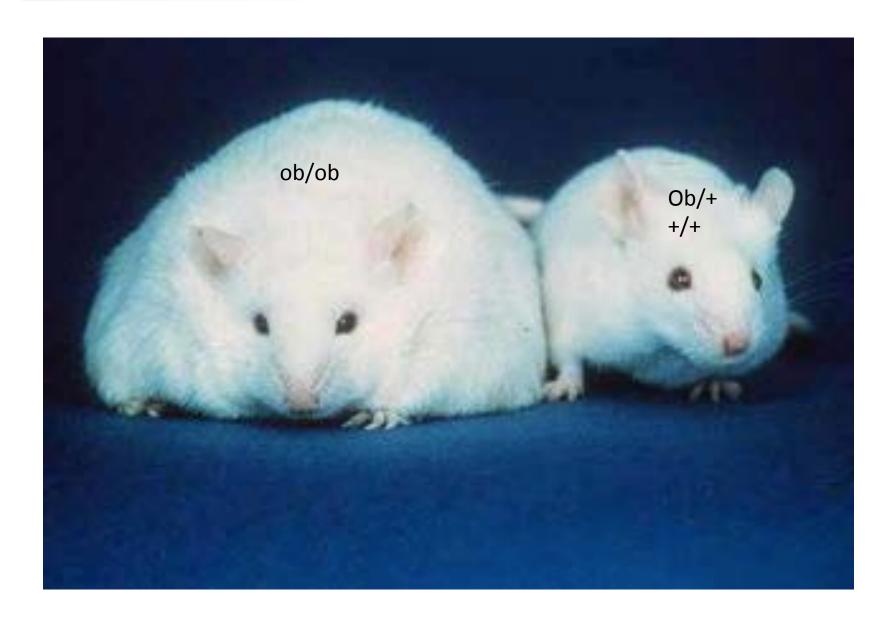


ur I. Kendall

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Lean vs Obese: Can you tell the difference?



Models of a core microbiome

