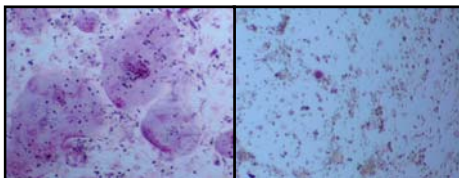


Division of Social and Environmental Sciences Department of Oral Microbiology

Toward prevention and control of bacterial infections



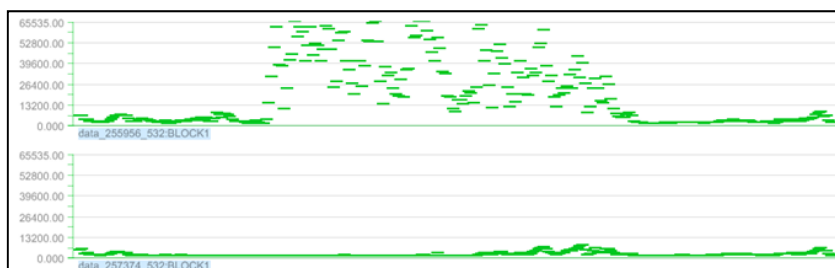
Typical colony of *Mycobacterium bovis* Calmette-Guérin (BCG)



without bacteria with bacteria

The direct effect of bacteria
on osteoclast differentiation

Several groups and species of bacteria live in the human body for long periods and often cause symptoms. Periodontitis and caries are typical examples of infectious diseases caused by such kind of bacteria. In addition, *Mycobacterium tuberculosis*, a causative organism of tuberculosis, can enter a latent state. Most of these bacteria do not possess “toxins” and remain inactive for long periods of time but may cause disease under certain conditions. The outcome of host-parasite relationships depends on the balance between bacterial virulence and host resistance. The purpose and goal of our studies are to reveal and to understand the mechanisms of endogenous and latent infections.



Comparing of gene expression profiles in BCG substrains using DNA microarrays

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