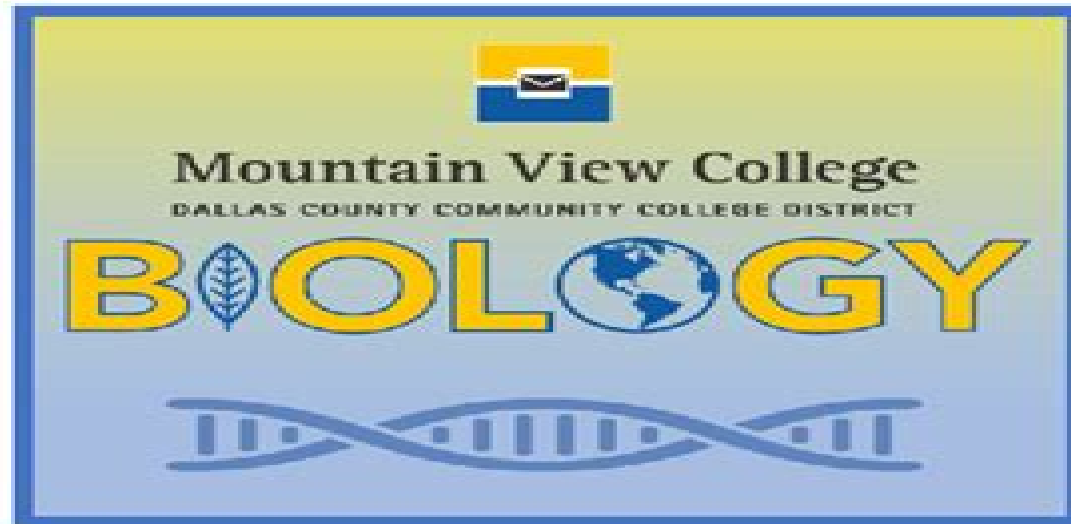


BIOL 2401
Human Anatomy & Physiology I
Laboratory Manual
Unit II



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branched rod shaped bacteria that are commonly found in the gastro intestinal tracts GIT of humans especially during the first stages of life and most animal and insects Bifidobacterial fluctuations seem directly associated with health effects and for these reasons they are being exploited as health promoting or probiotic bacteria However despite the extensive commercial exploitation of bifidobacteria as probiotic bacteria little is known about their impact or dependency on other members of the human gut microbiota or on their host Genome analyses have highlighted the existence of gene repertoires encoding products that are responsible for the adaptation of bifidobacteria to the human intestine and intense research efforts at international level are ongoing to understand the molecular details of these interactions Specifically the molecular interactions that are presumed to exist between bifidobacteria and the human host as well as interactions between different residents of intestinal microbiota are the main topic of bifidobacterial research communities

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