

大学院特別講義のご案内

日時: 平成26年4月10日(木) 17:00~18:00

場所: 口腔科学研究棟5F 弓倉記念ホール

講師: Prof. Denis Kinane (University of Pennsylvania School of Dental Medicine)

演題: Epithelial cells in the Innate and inflammatory responses in periodontal disease

要旨: Periodontal disease is a chronic inflammatory condition initiated and perpetuated by the oral microbial biofilm commonly called dental plaque. This gingivally related biofilm is complex in nature and has within it many putative periodontal pathogens. Of these bacteria *Porphyromonas gingivalis* is a commonly studied pathogen that has considerable virulence attributes. *P. gingivalis* perturbs the oral epithelial cells of the gingiva as its first effect in creating gingivitis and subsequently periodontitis. It does this by triggering the innate immune response and subsequently the inflammatory response. Humans are markedly different in how they respond to microbial plaque and this is probably through differences in both the innate and inflammatory and adaptive immune responses. This talk will cover the innate and inflammatory responses of epithelial cells and describe variability in these responses and consider how this influences periodontal disease progression. It will discuss single nucleotide polymorphism and their effects on the innate immune system. Understanding the innate and chronic inflammatory response is the first step in finding novel therapeutics that might treat or prevent or even detect susceptibility to periodontal disease. In future we may have therapies that prevent the innate immune response to bacteria or enhance the innate immune response to better deal with microbial infection. In addition a better understanding of the genetics of susceptibility would allow us to detect subjects who are at risk of periodontal disease and allow us to prevent this disease by commencing adequate oral hygiene measures before the disease takes hold.

※「口の難病」プロジェクトセミナーも兼ねております。

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