

Dental biofilm økologi

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In situ biofilm – Ultrastrukturelle studier

- SEM/TEM

- **Nyvad B. & Fejerskov O.** (1987a) Scanning electron microscopy of early microbial colonization of human enamel and root surfaces *in vivo*. *Scandinavian journal of dental research* **95**, 287-296.
- **Nyvad B. & Fejerskov O.** (1987b) Transmission electron microscopy of early microbial colonization of human enamel and root surfaces *in vivo*. *Scandinavian journal of dental research* **95**, 297-307.
- **Nyvad B. & Fejerskov O.** (1989) Structure of dental plaque and the plaque-enamel interface in human experimental caries. *Caries research* **23**, 151-158.



In situ biofilm – mikrobiologiske studier

- Dyrkningsstudier

- **Nyvad B. & Kilian M.** (1987) Microbiology of the early colonization of human enamel and root surfaces *in vivo*. *Scandinavian journal of dental research* **95**, 369-380.
- **Nyvad B. & Kilian M.** (1990a) Comparison of the initial streptococcal microflora on dental enamel in caries-active and in caries-inactive individuals. *Caries research* **24**, 267-272.
- **Nyvad B. & Kilian M.** (1990b) Microflora associated with experimental root surface caries in humans. *Infection and immunity* **58**, 1628-1633.

- Doktorafhandling

- **Nyvad B.** (1993) Microbial colonization of human tooth surfaces. *APMIS. Supplementum* **32**, 1-45.



In situ biofilm - FISH og CLSM studier

- Studie med kombineret brug af Confocal Laser Scanning Microscopy (**CLSM**) og Fluorescence *in situ* Hybridization (**FISH**)
 - **Dige I., Nilsson H., Kilian M., Nyvad B. (2007).** *In situ* identification of streptococci and other bacteria in initial dental biofilm by confocal laser scanning microscopy and fluorescence *in situ* hybridization. *Eur J Oral Sci* **115**, 459-467.
- Kvantitative stereologiske studie
 - **Dige I., Nyengaard J. R., Kilian M., Nyvad B. (2009).** Application of stereological principles for quantification of bacteria in intact dental biofilms. *Oral Microbiology and Immunology* **24**, 69-75.
- Ph.d.-studie
 - **Dige I.,** Initial dental biofilm formation studied by confocal laser scanning microscopy and fluorescence *in situ* hybridization, Det Sundhedsvidenskabelige Fakultet, Århus Universitet, 2009.

Cariesøkologi

- Hypotese-genererende studie
 - **Takahashi N. & Nyvad B. (2008).** Caries ecology revisited: Microbial dynamics and the caries process. *Caries Res* **42**, 409-418.

