## **Improvement of long-term durability of dentin-bonded materials**

The auto-degradation of dentine collagen fibrils is responsible for bond degradation within hybrid layers.

Solutions to prevent dentin bond degradation are:

- 1. Increasing the functional monomers into dentin substrates
- 2. <u>Inhibitors of Collagenolytic Enzymes</u>
- 3. The use of cross-linking agents to stabilize collagen matrix, and/or to alter the activities of MMP and cathepsins

The effect of chlorhexidine to improve dentin bond durability: I evaluated chlorhexidine release from unfilled non-solvated methacrylate-based resins.

