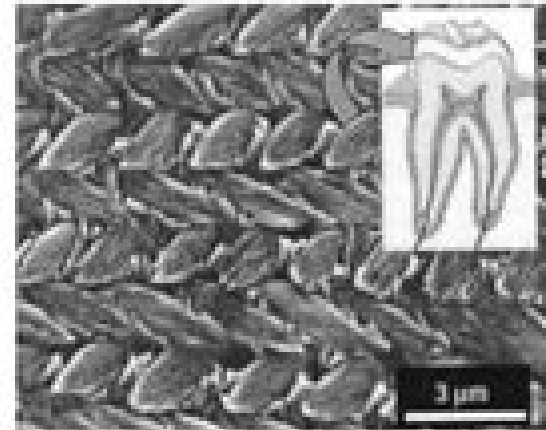


Nature's Ceramic Composites

- Natural hard tissues are “ceramic”-polymer composites:
 - » Bones, Teeth, Shells
- Tissue = organic polymer fibers + mineral + living cells
- Mineral component (Ceramic)
 - » Bone: hydroxyapatite (HA) – $\text{Ca}_5(\text{PO}_4)_3\text{OH}$
- Mineralization under biological conditions:
 - » Many elemental substitutions
 - » Protein directed crystallization
 - » Unique characteristics – crystal morphology and solubility
- Synthetic calcium phosphates are used as biomaterials – “bioactive”



Synthetic HA



Bone HA

Bioceramics Material Characteristics Versus In Vivo Behavior

Michael Rajnik



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