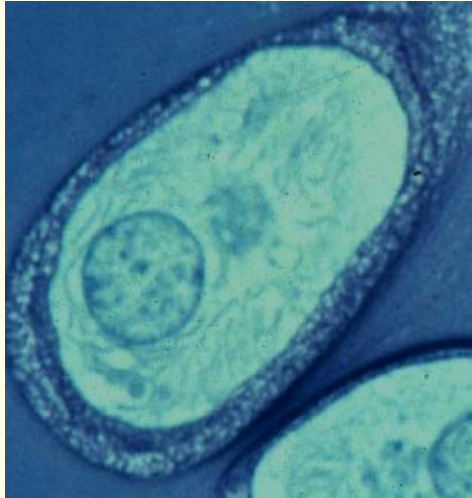




IGF-I : a key cartilage growth factor IGF-I response is reduced with aging and OA



- **Stimulates cartilage matrix production - proteoglycans and collagen (Verschure et al., 1996; Smith et al, 2000)**
- **Inhibits cartilage matrix degradation (Tyler, 1989; Im et al, 2003)**
- **Promotes chondrocyte survival (Loeser and Shanker, 2000)**
- **Chondrocyte response (PG and collagen synthesis) to IGF-I is reduced with aging and in OA (Dore et al, 1994; Martin et al, 1997; Loeser et al, 2000)**