

Lunchtime Science

Invitation to institute-wide seminar:
December 12th, 2018, 12:15 pm, Lecture hall 3

Prof. Ron Shahar

“The wonder of bone without osteocytes”

Osteocytes, cells found within the bones of humans, mammals and many vertebrate taxa, are thought to be the master regulators of bone modeling, a process of coordinated, local bone tissue deposition and removal. Neoteleost fish, however, lack osteocytes and yet are known to be capable of bone modeling. Recent work has found that, similar to mammals, modeling in fish is regulated by the SOST gene, demonstrating a mechanistic link between skeletal loading and bone modeling. This presentation will show that in fishes (and perhaps other vertebrates) non-osteocytic skeletal cells are both sensors and responders of mechanical loads, shouldering duties believed exclusive to osteocytes.



**Laboratory of bone biomechanics, Koret School of Veterinary Medicine
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The presentation is meant for clinicians and researchers alike.
Coffee and cookies will be served. Next lunchtime-science: Jan 16th, 2018