

## Ronald Zernicke Publications (past 10 years)

1. Gross, T. S., Damji, A. A., Bray, R.C., and **Zernicke, R. F.** Bone hyperemia precedes disuse-induced intracortical bone resorption. *Journal of Applied Physiology* **86**: 230-235, 1999.
2. Judex, S., Whiting, W. C., and **Zernicke, R. F.** Exercise induced bone adaptations: Considerations for designing an osteogenically effective exercise program. *International Journal of Industrial Ergonomics* **24**: 235-238, 1999.
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5. Fowler, E., Hester, D., Oppenheim, W., Setoguchi, Y., and **Zernicke, R. F.** Contrasts in gait mechanics of individuals with proximal femoral focal deficiency: Syme amputation versus van Nes rotational osteotomy. *Journal of Pediatric Orthopaedics* **19**: 720-731, 1999.
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10. Judex, S., Wohl, G. R., Wolff, R. B., Leng, W., Gillis, A. M., and **Zernicke, R. F.** Dietary fish oil supplementation adversely affects cortical bone morphology and biomechanics in growing rabbits. *Calcified Tissue International* **66**: 443-448, 2000.
11. Muldrew, K., Novak, K., Yang, H., **Zernicke, R. F.**, Schachar, N. S., and McGann, L. E. Cryopreservation of articular cartilage: Ice morphology and recovery of chondrocytes. *Cryobiology* **40**: 102-109, 2000.
12. Jaremko, J., Delorme, S., Dansereau, J., Labelle, H., Ronsky, J., Poncet, P., Harder, J., Dewar, R., and **Zernicke, R. F.** Use of neural networks to correlate spine and rib deformity in scoliosis. *Computer Methods in Biomechanics and Biomedical Engineering* **3**: 203-213, 2000.

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16. Boyd, S. K., Müller, R., Matyas, J. R., Wohl, G. R., and **Zernicke, R. F.** Early morphometric and anisotropic change in periarticular cancellous bone in a model of experimental knee osteoarthritis quantified using micro-computer tomography. *Clinical Biomechanics* **15**: 624-631, 2000.
17. Boyd, S. K., Matyas, J. R., Wohl, G. R., Kantzas, A., and **Zernicke, R. F.** Early regional adaptation of periarticular bone mineral density after anterior cruciate ligament injury. *Journal of Applied Physiology* **89**: 2359-2364, 2000.
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26. Uludag, H., Gao, T., Wohl, G., Kantoci, D., and **Zernicke, R. F.** Bone affinity of a bisphosphonate conjugated protein in vivo. *Biotechnology Progress* **16**:1115-1118, 2000.

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79. Tapper, J. E., Funakoshi, Y., Hariu, M., Marchuk, L., Thornton, G. M., Ronsky, J. L., **Zernicke, R. F.**, Shrive, N. G., and Frank, C. B. ACL/MCL transection effects on intra-ligament distance of healing and remaining intact ligaments in the ovine model. *Journal of Biomechanics* (In press).

### Book Chapters

1. **Zernicke, R. F.** The emergence of human biomechanics. In: *Perspectives on the Academic Discipline of Physical Education* Brooks, G. A. (ed.) Human Kinetics Publ., Champaign-Urbana, Illinois, pp. 124-136, 1981.
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