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Implications of a polymer meniscus implant on knee tribology

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Stellingen

Behorend bij het proefschrift

“Implications of a polymer meniscus implant on knee tribology”

Sara Ehsani Majd

1. Type II collagen plays an essential role in keeping PRG4 on the surface of the natural cartilage despite the presence of albumin. *This thesis*
2. PRG4 adsorption on the mimicked superficial zone of the articular cartilage provides COFs on the same order of magnitude as those of the natural cartilage. *This thesis*
3. Albumin completely blocks PRG4 adsorption on polycarbonate urethane. *This thesis*
4. PRG4 adsorption is sensitive to the biomaterials hydrophobicity, while albumin adsorption is not. *This thesis*
5. Mimicking the stance and swing phases of the gait cycle, presents more accurate tribological data, as compared to a commonly used continuous loading protocol. *This thesis*
6. A mixed boundary and interstitial fluid pressurization mechanism is active during joint lubrication. *This thesis*
7. And though within this heart of mine
a thousand suns have come to shine,
No closer am I to understand
the truth within a grain of sand. *Avicenna (Ibn-Sina)* اندر دل من هزار خورشید بتافت
آخر به کمال ذره ای راه نیافت
ابن سینا
8. The truth is, of course, that there is no journey. We are arriving and departing all at the same time. *David Bowie*
9. The greatest enemy of knowledge is not ignorance, it is the illusion of knowledge. *Stephen Hawking*
10. Research is as much obtaining the evidence as placing it together piece-by-piece and making sense out of it.
11. Teamwork speeds up the process of making science.
12. I would never die for my beliefs because I might be wrong. *Bertrand Russell*