

Bioengineering

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Research Interests

Total Knee Implant
Tribology
Endovascular Stent

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Medical Tribology: Improving Cell Response

Orthopaedic Bearing Materials

Material synthesis and characterization

Total knee replacement friction, wear, and lubrication

Lubricant development for simulation and in vivo use

Endovascular Stent Restenosis

Implant design and modeling

Contact mechanics and tribology

In vitro experimentation and animal modeling

Vascular Smooth Muscle Response

Implant-contact experimental simulation