

# WISSENSCHAFTLICHE ARBEIT

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## Forschungsschwerpunkte

- Untersuchungen zur Pathophysiologie destruktiver Gelenkveränderungen bei entzündlichen und degenerativen Gelenkerkrankungen und Möglichkeiten der therapeutischen Beeinflussung
- In-vitro Kultursysteme zur Untersuchung zellulärer Interaktionen bei entzündlichen Gelenkerkrankungen
- Entwicklung von in vitro-Assays und Testsystemen zur Analyse biologischer Wirkstoffe und Pharmaka auf pathophysiologische Prozesse bei Rheumatoider Arthritis
- Tissue Engineering zur Herstellung von Gewebe-und Zelltransplantaten zur Therapie von Knorpel-und Knochendefekten
- Untersuchungen zum Differenzierungspotential mesenchymaler Stammzellen
- Einfluss entzündlicher Systemerkrankungen auf metabolische Prozesse
- Sport und Ernährung als Therapieoptionen bei rheumatischen Erkrankungen

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