## Characterization of the osteoarthritic joint microenvironment

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### Stellingen behorende bij het proefschrift

# Characterization of the osteoarthritic joint microenvironment: from phenotype to endotype

#### Bas Housmans

- 1. Cell-based assays can be developed towards clinical diagnostics for OA endotyping *This thesis*
- 2. Chondrocyte dedifferentiation in response to osteoarthritic synovial fluid enables chondrocyte proliferation, a process involved in cartilage repair *This thesis*
- 3. An altered joint microenvironment reflected in compositional changes of the synovial fluid promote OA-associated processes that accelerate cartilage degeneration *This thesis*
- 4. Synovial fluid samples from minimally invasive joint aspiration can be used as indicator to subgroup OA patients *This thesis*
- 5. Osteoarthritis is a whole joint disease that does not necessarily originate from a disturbance in cartilage *Discipline*
- 6. Gaining knowledge on the systemic factors and influences that promote osteoarthritis, such as nutrition and co-morbidities, are vital for patient-profiling and future therapy *Discipline*
- 7. Success in clinical biomarker discovery is greatly dependent on the classification of OA subgroups *Discipline*
- 8. A detailed characterization of the existing OA endotypes that underlie patient-specific phenotypes are essential to guide both drug development and future precision medicine *Impact of this thesis*
- 9. "If we consult the standard Chirurgical Writers from Hippocrates down to the present Age, we shall find, that an ulcerated Cartilage is universally allowed to be a very troublesome Disease; that it admits of a Cure with more Difficulty than carious Bone; and that, when destroyed, it is not recovered" William Hunter (1743)
- 10. "It had to be good to get where it is" Coca Cola (1926)
- 11. "Wisdom is the daughter of experience" Leonardo Da Vinci