

# Chondrocytes

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## Propositions for the thesis

### **Chondrocytes: Ribosomes in the spotlight**

Alžbeta Chabroňová

1. In osteoarthritis, translation is (de)regulated at the level of ribosomes altering translation rate, modus, ribosome biogenesis, and post-transcriptional modifications of ribosomal RNAs (*This thesis*)
2. Human articular chondrocytes respond to the osteoarthritic microenvironment by functionally adapting their ribosomal pool (*This thesis*)
3. snoRNAs play important roles in chondrocyte pathobiology and they have great potential as drugable targets in osteoarthritis therapy (*This thesis*)
4. The IRES-mediated translation is regulated in osteoarthritis (*This thesis*)
5. The global population is ageing and we, as a society, need to prepare for the imminent rise in musculoskeletal disorders (*Discipline*)
6. Healthy ageing can only be accomplished through scientific curiosity and method (*Discipline*)
7. Everybody knows and respects DNA. Now, it is time to appreciate ribosomes (*Discipline*)
8. When studying molecular processes driving the development and progression of osteoarthritis, we need to consider both transcriptional and translational regulatory mechanisms (*Impact of this thesis*)
9. I don't know where I'm going from here, but I promise it won't be boring (*David Bowie*)
10. The best view comes after the hardest climb (*unknown*)
11. Let's do one last experiment (*Tim J.M. Welting*)