Propositions belonging to the thesis

Novel Insights into the Molecular Regulation of Renal and Cardiovascular Homeostasis

- 1. Endothelial expression of Frizzled 5 is required to suppress expression of vascular regression-associated factors. (this thesis)
- 2. Interaction with endothelial cells drives pericyte maturation, and may suppress pathological differentiation into a fibrotic phenotype. (this thesis)
- 3. Obesity and hypertension show minimal interaction in the development of heart failure with preserved ejection fraction. (this thesis)
- Transcriptional dysregulation, caused by genetic variation affecting DNA regulatory elements, could contribute to onset and progression of chronic kidney disease. (this thesis)
- 5. Applying self-transcribing active regulatory region sequencing, in parallel with circular chromosome conformation capture sequencing, allows the identification of genes that are transcriptionally dysregulated by disease-associated genetic variation interfering with DNA regulatory elements. (this thesis)
- Rapid vascularization is of vital importance for survival and function of tissueengineered grafts and remains one of the major limiting factors toward their clinical implementation. (Banfi, Frontiers in Bioengineering and Biotechnology, 2018)
- 7. Targeting Frizzled receptor signaling can be a potential and attractive approach for human cancer therapy. (Zeng, International Journal of Molecular Sciences, 2018)
- 8. Instead of being an individual entity, heart failure with preserved ejection fraction represents a group of multiple diseases caused by different etiologies that produce the same symptoms. (Borlaug, Journal of the American College of Cardiology, 2016)
- With physical activity and caloric restriction we already have two of the safest and cost-effective therapies available for obese patients having heart failure with preserved ejection fraction. (Pandey, Journal of the American College of Cardiology, 2018)
- Only few GWAS results are directly medically actionable, so follow-up research is essential to translate novel associations into medical innovations. (Struck, Human Genomics, 2018)
- 11. Progression is often presented as success, but driven by failure.