**Interventional CMR**

CMR-guided endomyocardial biopsy (EMB) in an *in vivo* porcine model

- LV-EMB
- Real time- lesion imaging
- Biopsy - Quality
- Histology

**Parametric CMR**

Myocardial T2 Mapping Increases Noninvasive Diagnostic Accuracy for Biopsy-Proven Myocarditis

- EMB
- CMR

Variable Flip angle T1 mapping predicts functional outcome after acute MI and discriminates between the severity of ischemic injuries in different models of experimental MI.

T2 mapping CMR for the assessment of myocardial remodelling after TAVR

**X Nuclei Imaging (19F)**

Imaging of inflammation in the setting of subacute healing after myocardial infarction with 19F MRT

*Bönner F et al., JACC CVI 2016

*Bönner F et al., EHJ CVI 2015