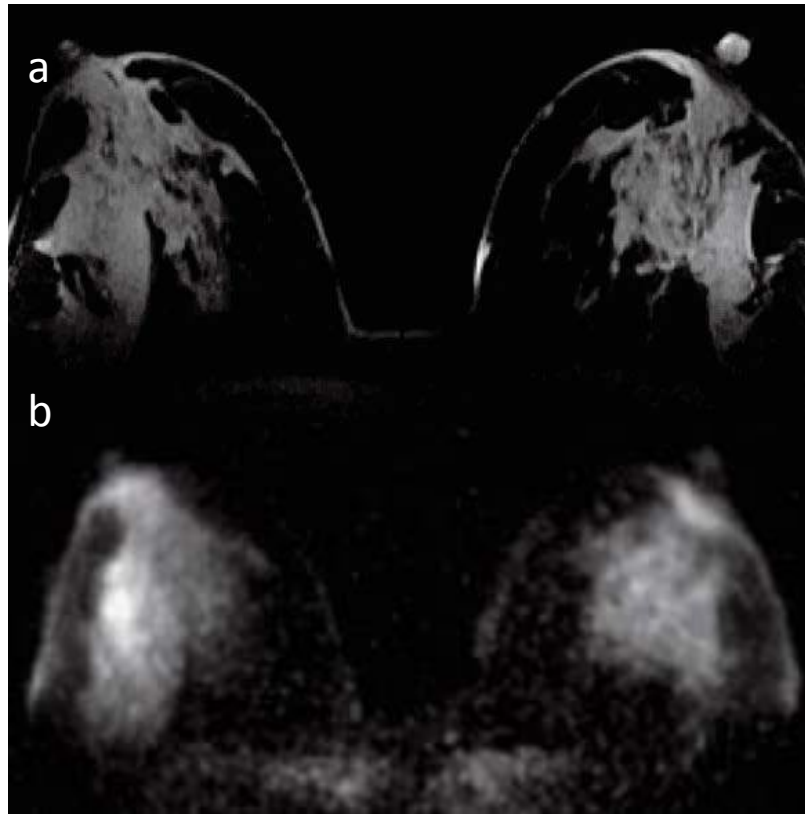
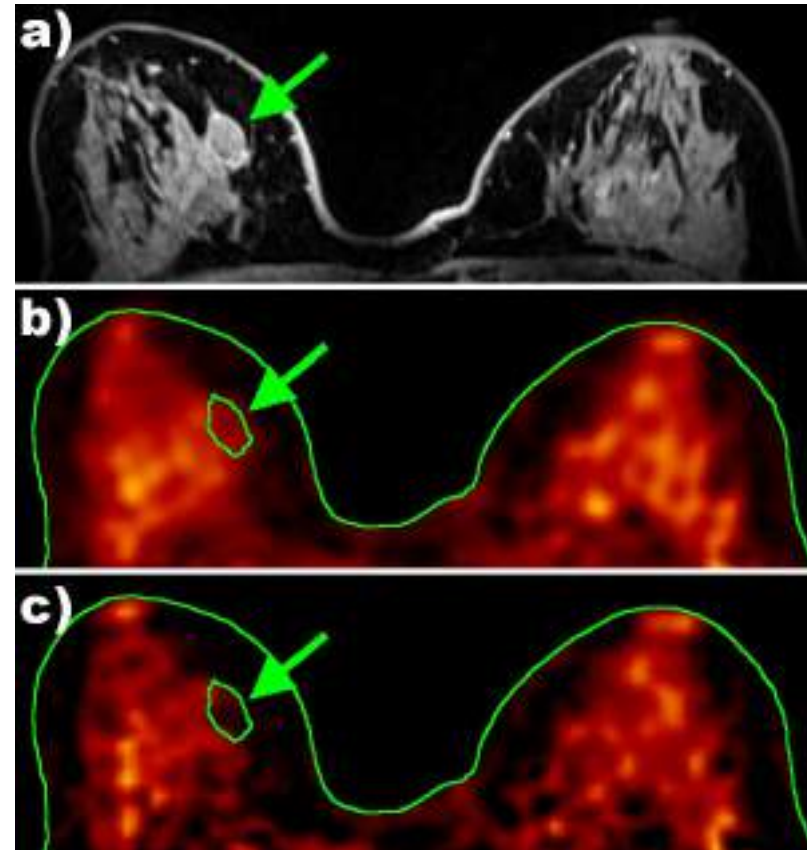


Emerging techniques: Sodium Imaging at 7T



Bogner et al., Magnetom Flash 2014

- a) Localizer ^1H image
- b) Sodium image with the resolution of $1.5 \times 1.5 \times 5 \text{ mm}^3$

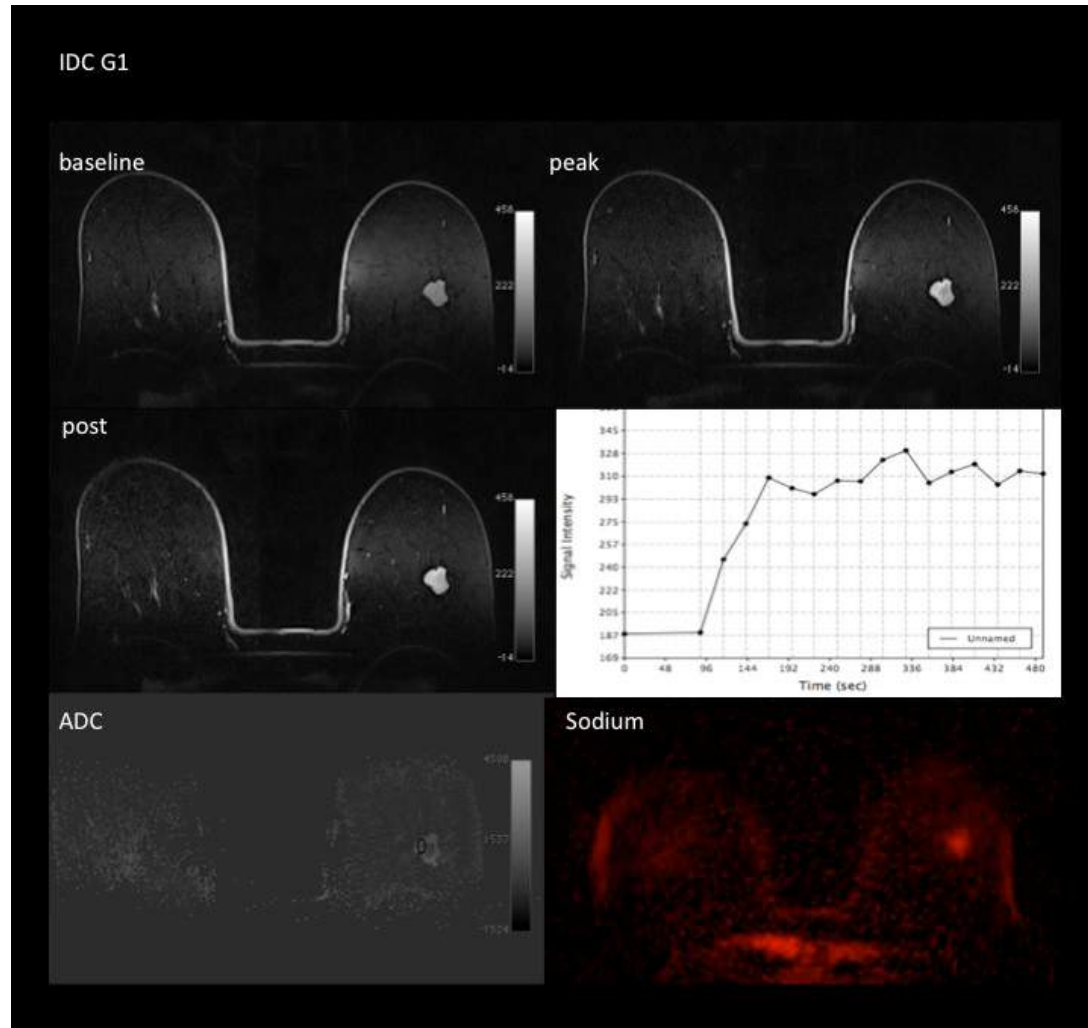


Zbyn et al., ISMRM 2015

- a) CE-MRI
- b) color-coded total ^{23}Na signal image
- c) Relaxation-weighted ^{23}Na image



Multiparametric MRI

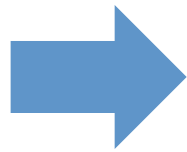


Sodium Imaging (^{23}Na MRI) at 7T



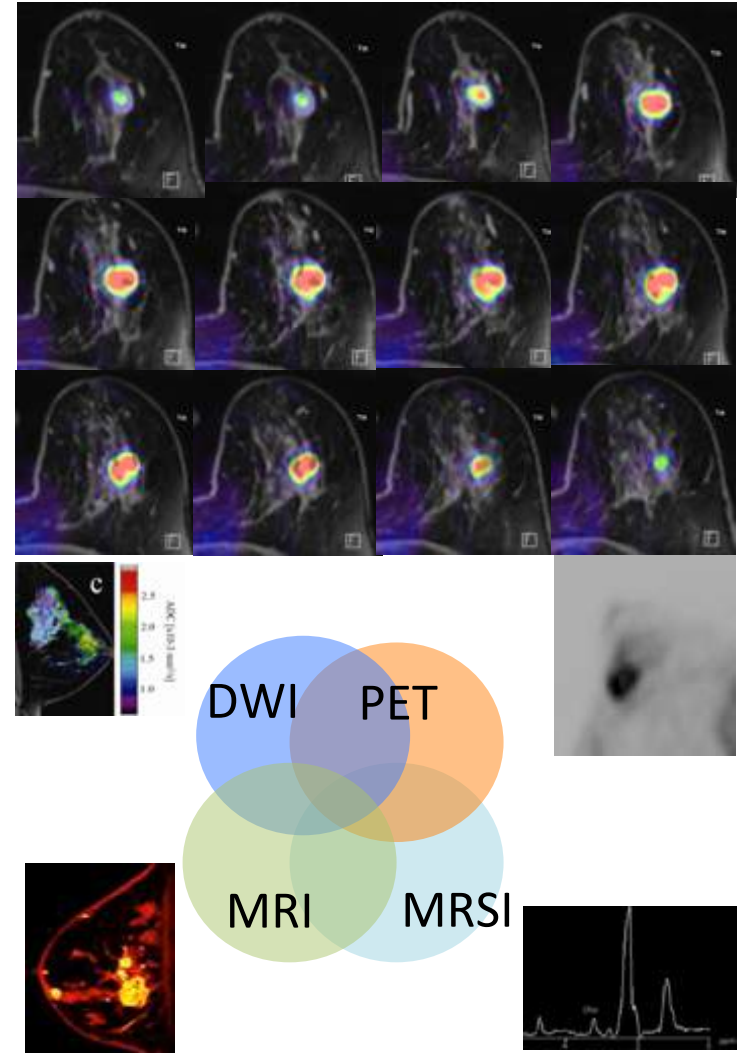
Mp MRI of the Breast

- Improves:
 - Detection
 - Characterization
 - Staging
 - Therapy monitoring
 - Follow-up



Tailored therapy

Patients will acknowledge our effort



Thank you for your attention!

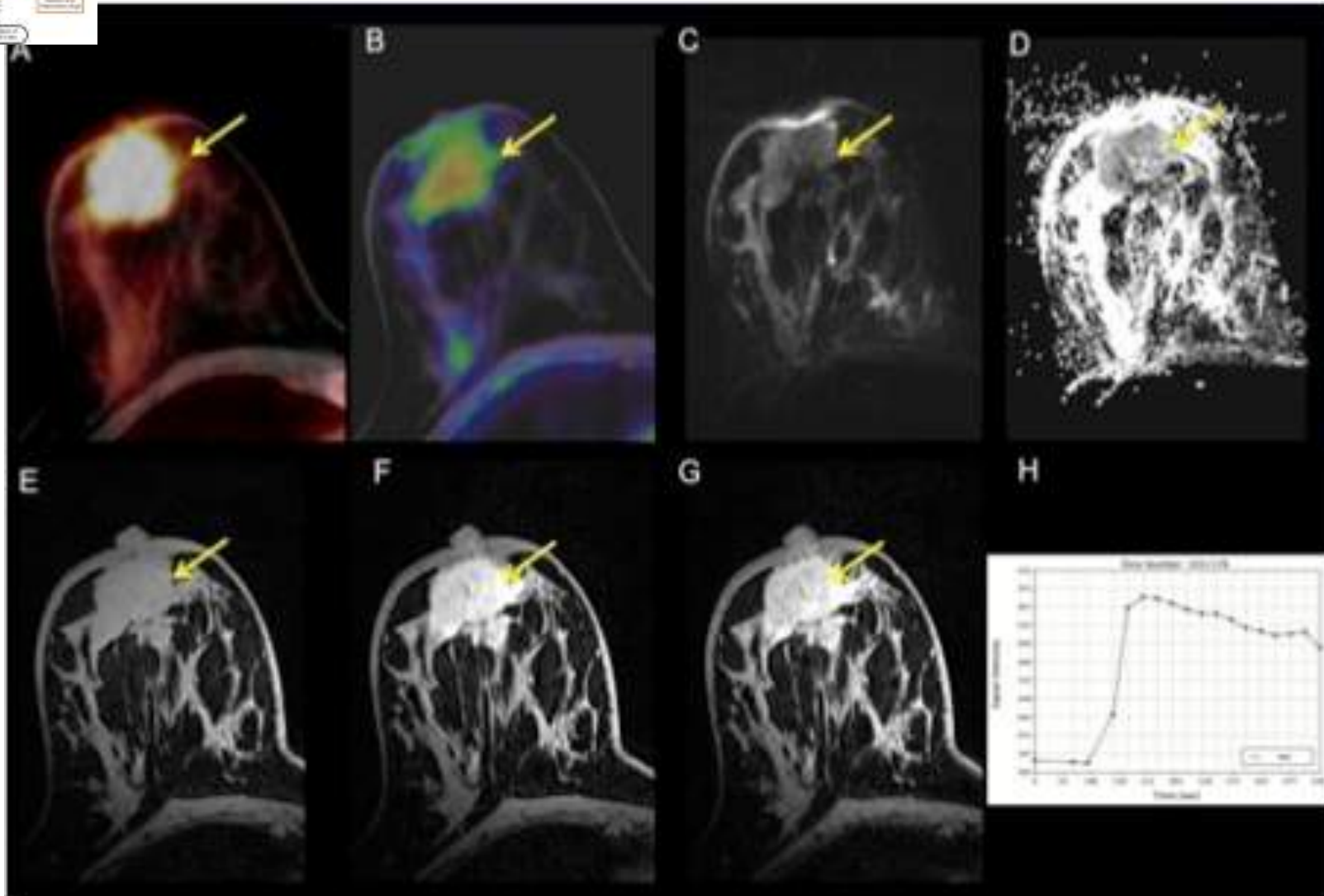


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MP ^{18}F FDG ^{18}F FMISO PET/MRI at 7T



Pinker et al. Clinical Cancer Research 2014

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