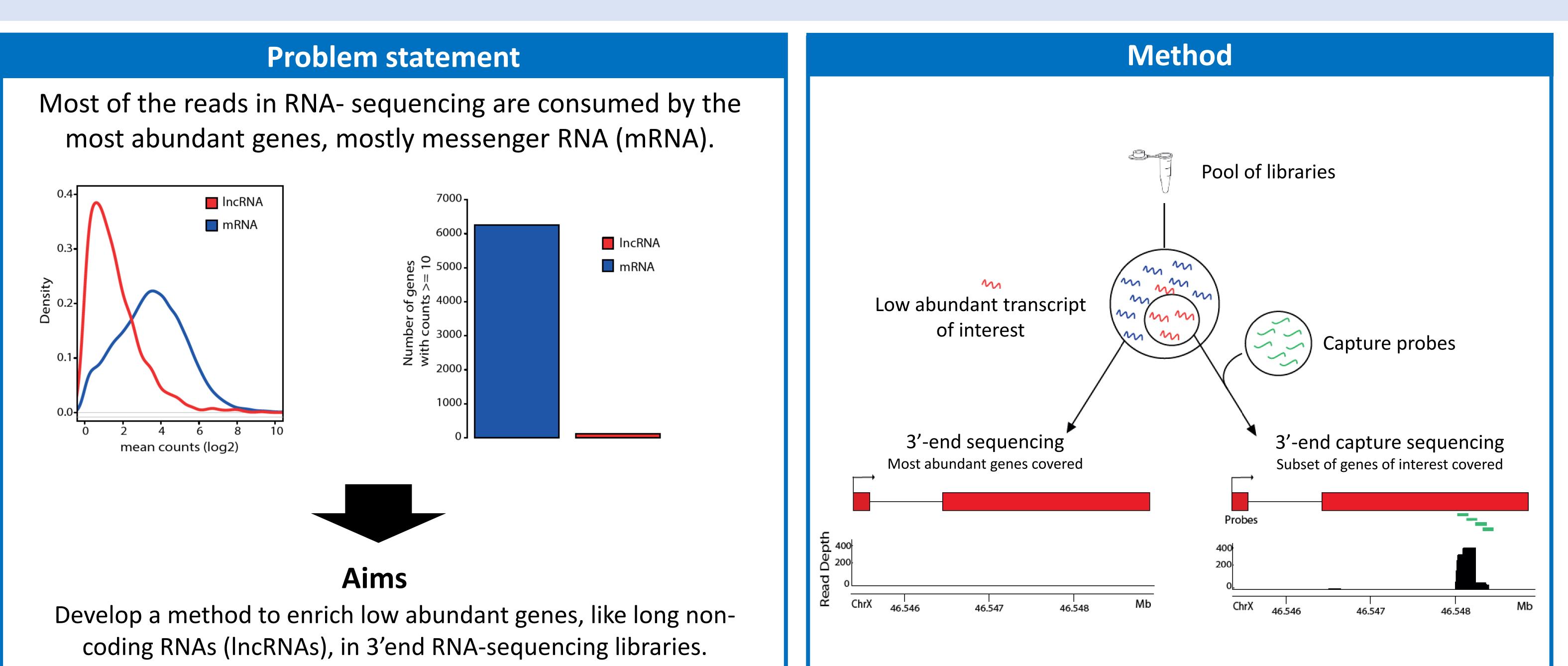
A 3'-end capture sequencing method for high-throughput targeted gene expression profiling

Fien Gysens, Eric de Bony Nurten Yigit, Jasper Anckaert, Celine Everaert, Eveline Vanden Eynde, Kimberly Verniers, Willem van Snippenberg, Wim Trypsteen & Pieter Mestdagh OncoRNALab, CMGG, Department of Biomolecular Medicine, UGent,

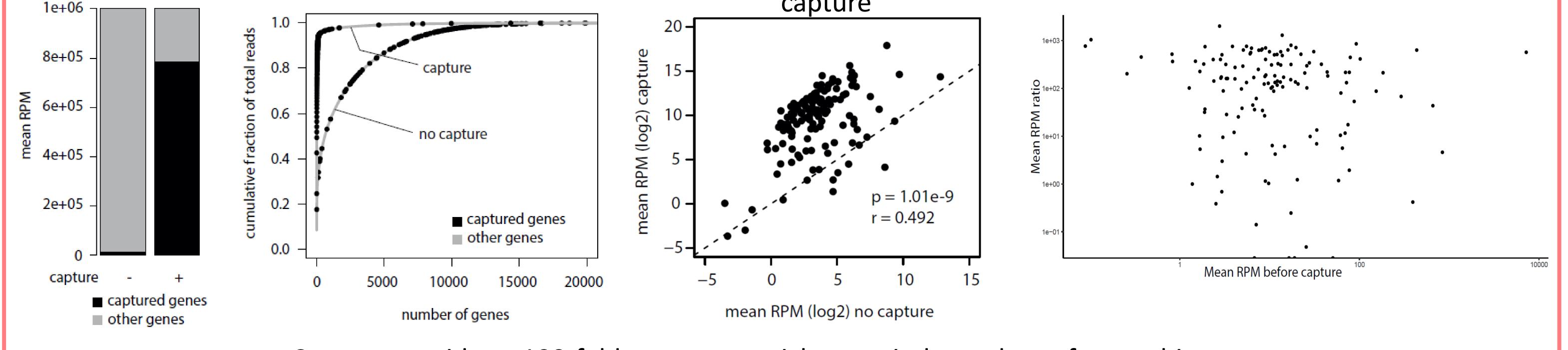


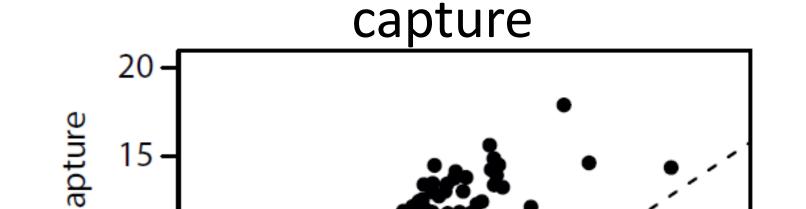
Results

80% of reads are allocated to targets upon capture

Good correlation of gene expression before and after

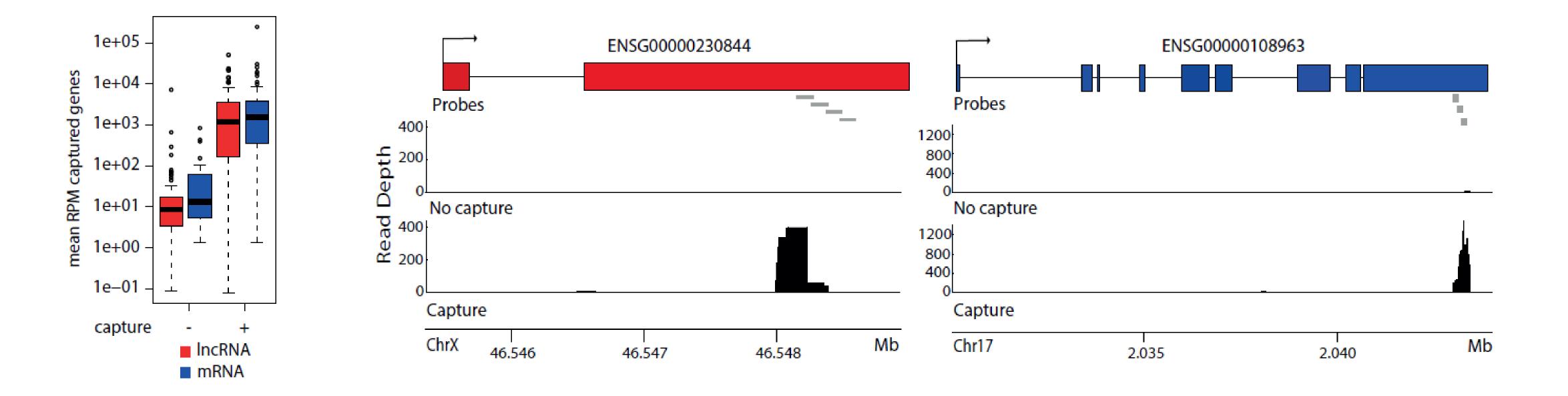
Capture efficiency is independent of initial transcript abundance







Capture provides a 100-fold coverage enrichment, independent of target biotype



Contact

Fien Gysens

OncoRNALab, Ghent University fien.gysens@ugent.be





Conclusions

- 3'-end capture sequencing efficiently enriches low abundant targeted isoforms
- Capture efficiency is similar for coding and non-coding genes
- Targeted 3'-end capture sequencing enables a 100-fold sequencing depth reduction, and thus a reduction in sequencing costs
- Capture sequencing maintains inter-gene and inter-sample gene abundance differences

