

Improved iST workflows for high-throughput preparation of chemical labeling samples or plant tissues

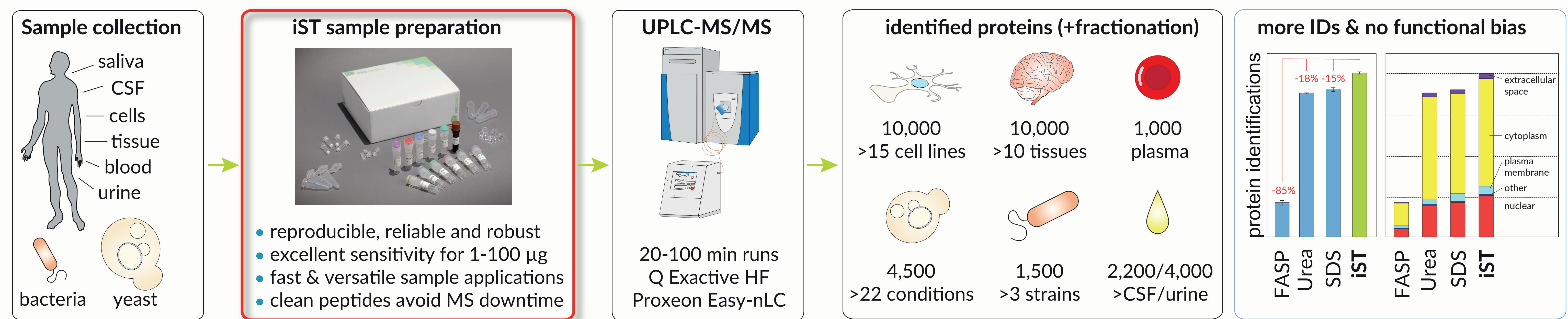
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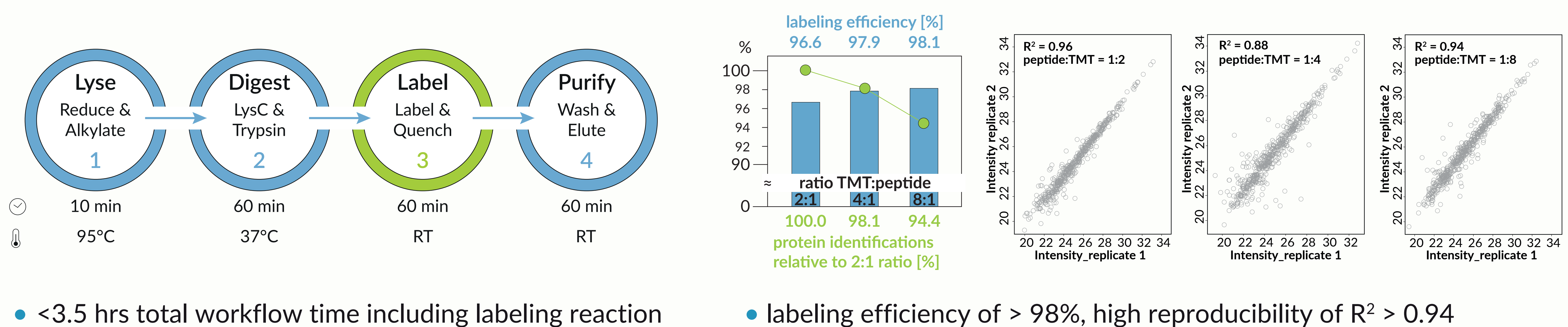
1 Introduction

The recently described in-StageTip (iST) method enables proteomic sample processing in a single, enclosed volume (Kulak et al., 2014). Here, we present further developments of the iST technology that facilitate fast & reproducible 96-well preparation of chemical labeling samples. In addition, we have developed a novel and streamlined iST application for different plant tissues providing significant time savings, as well as both high protein extraction and peptide recovery rates.

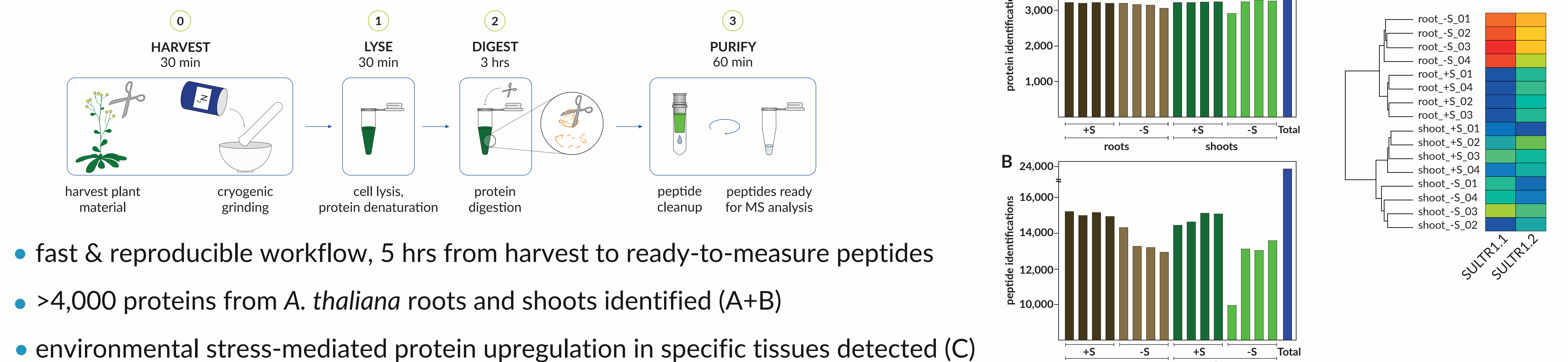
2 Workflow & comparison to other sample preparation methods



3 Compatibility with chemical labeling (iTRAQ, TMT)

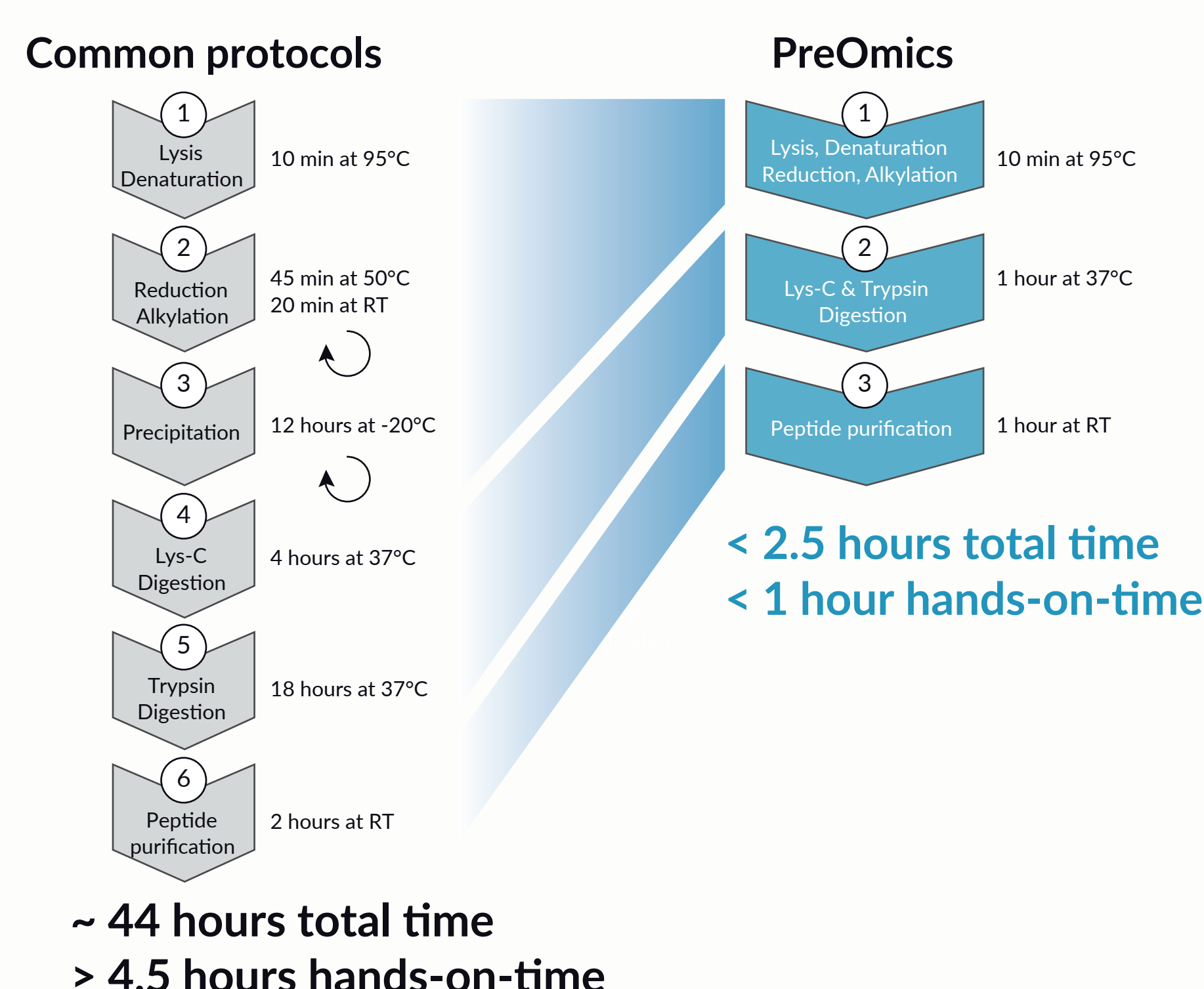


4 Compatibility with different plant tissues



5 Conclusions

- more protein & peptide identifications compared to alternative workflows
- dual clean-up to remove contaminants (hydrophilic & hydrophobic)
- works with standard lab equipment
- intuitive for every non-expert
- ultrapure MS-grade reagents
- validated in multiple publications



6 References & Contact

Doll et al. (2018), Mol Oncol
Geyer et al. (2017), Mol Syst Biol
Kulak et al. (2014), Nat Methods

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