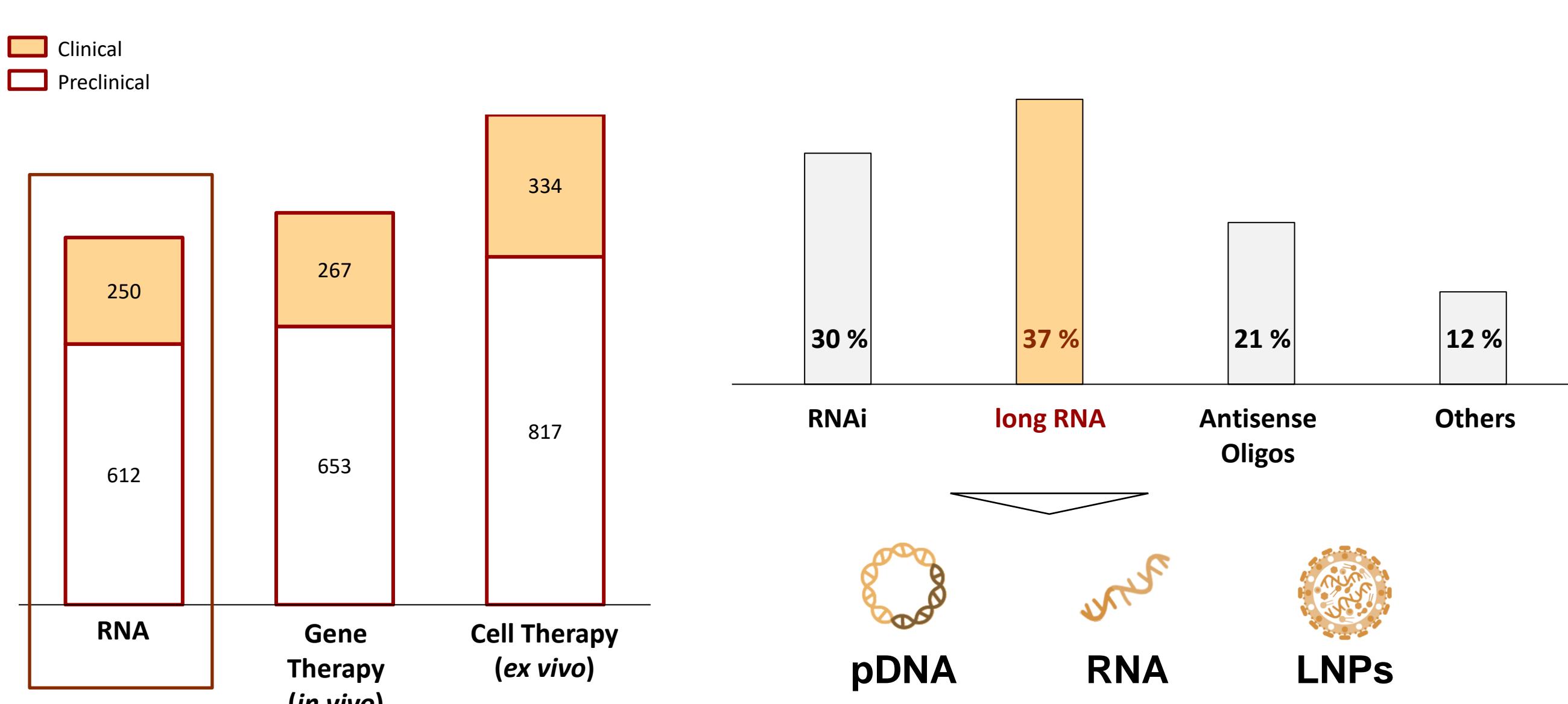
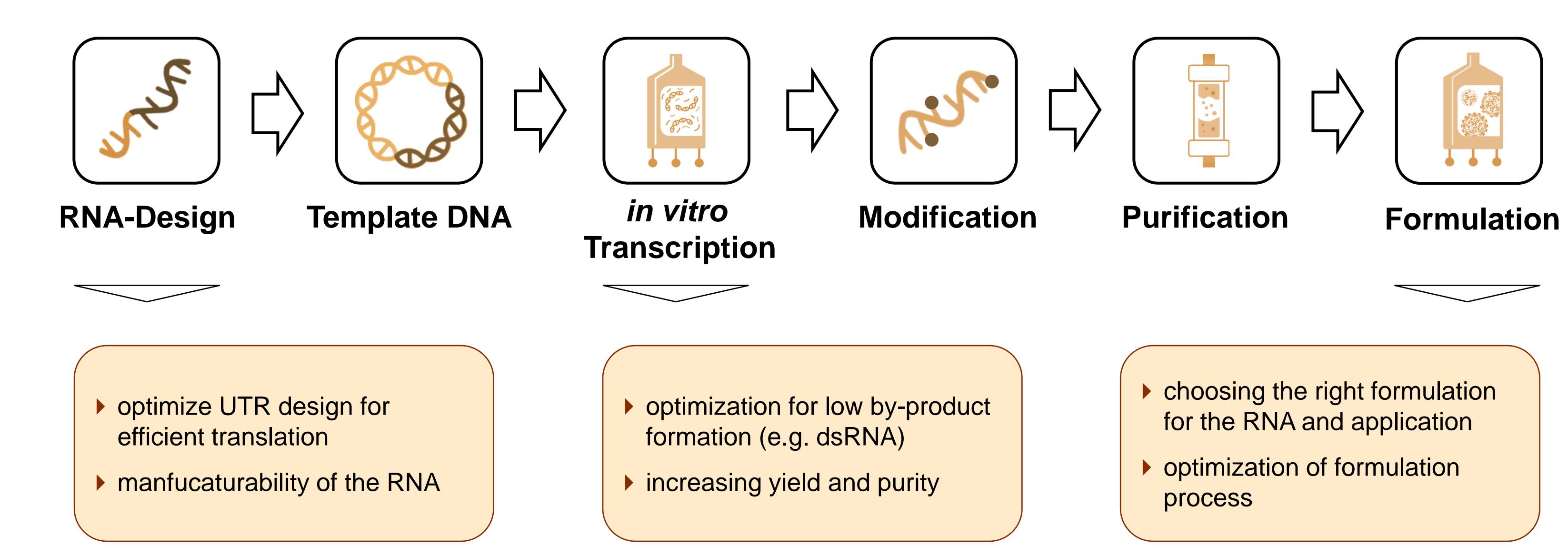


INNOVATIVE TECHNOLOGIES ENABLE HIGHLY EFFICIENT DEVELOPMENT AND MANUFACTURING OF NUCLEIC ACID BASED THERAPEUTICS

Advanced Therapy Pipeline and RNA Relevancy

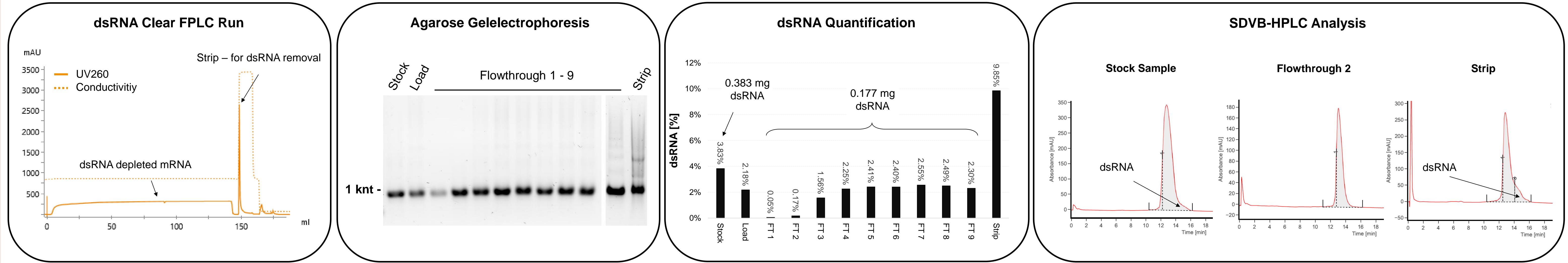
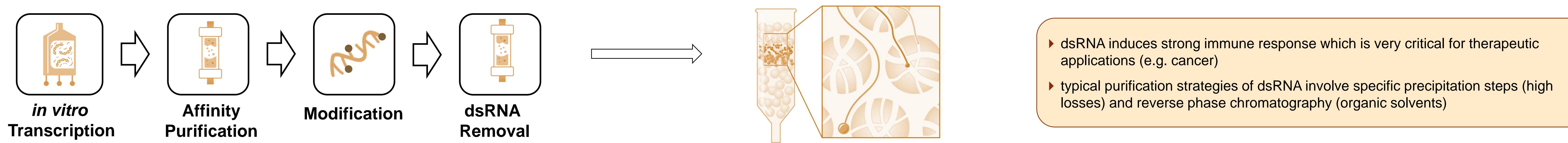


mRNA Manufacturing Value Chain



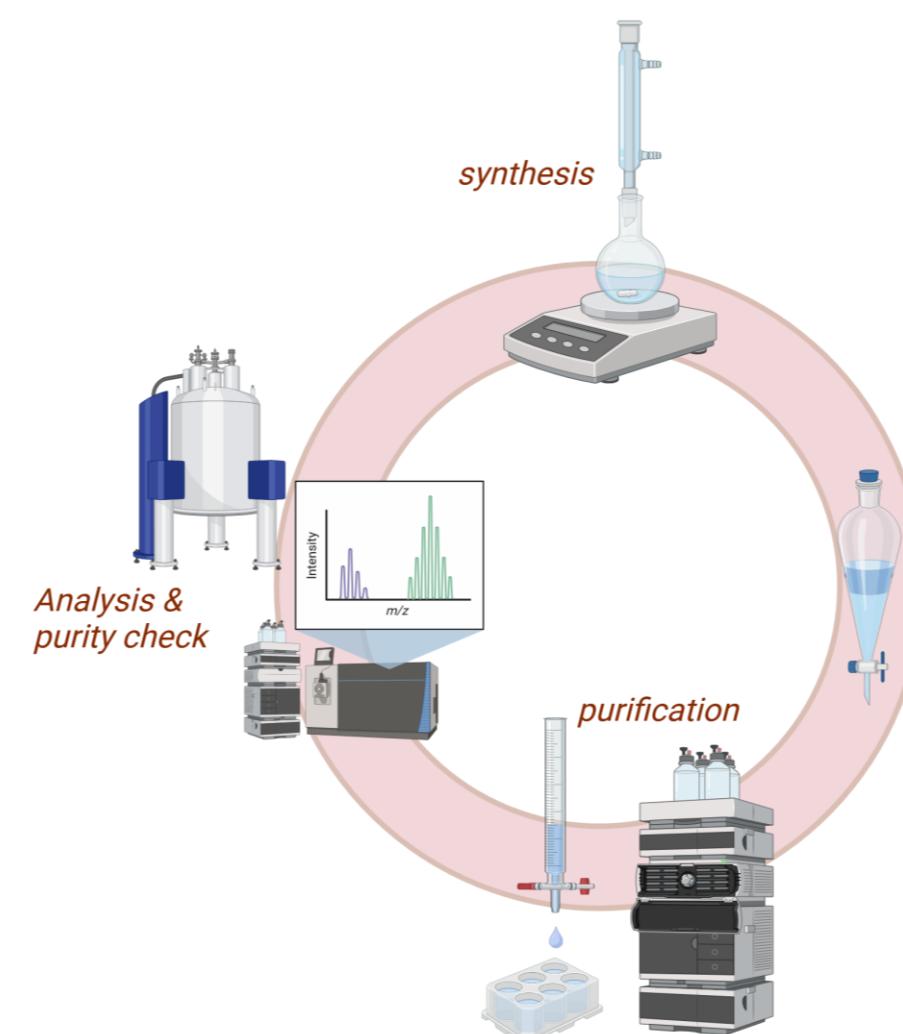
Reduction of dsRNA – A Way Forward for Therapeutic RNA Applications

As a major immunogenic by-product dsRNA affects efficacy and safety of RNA therapeutics

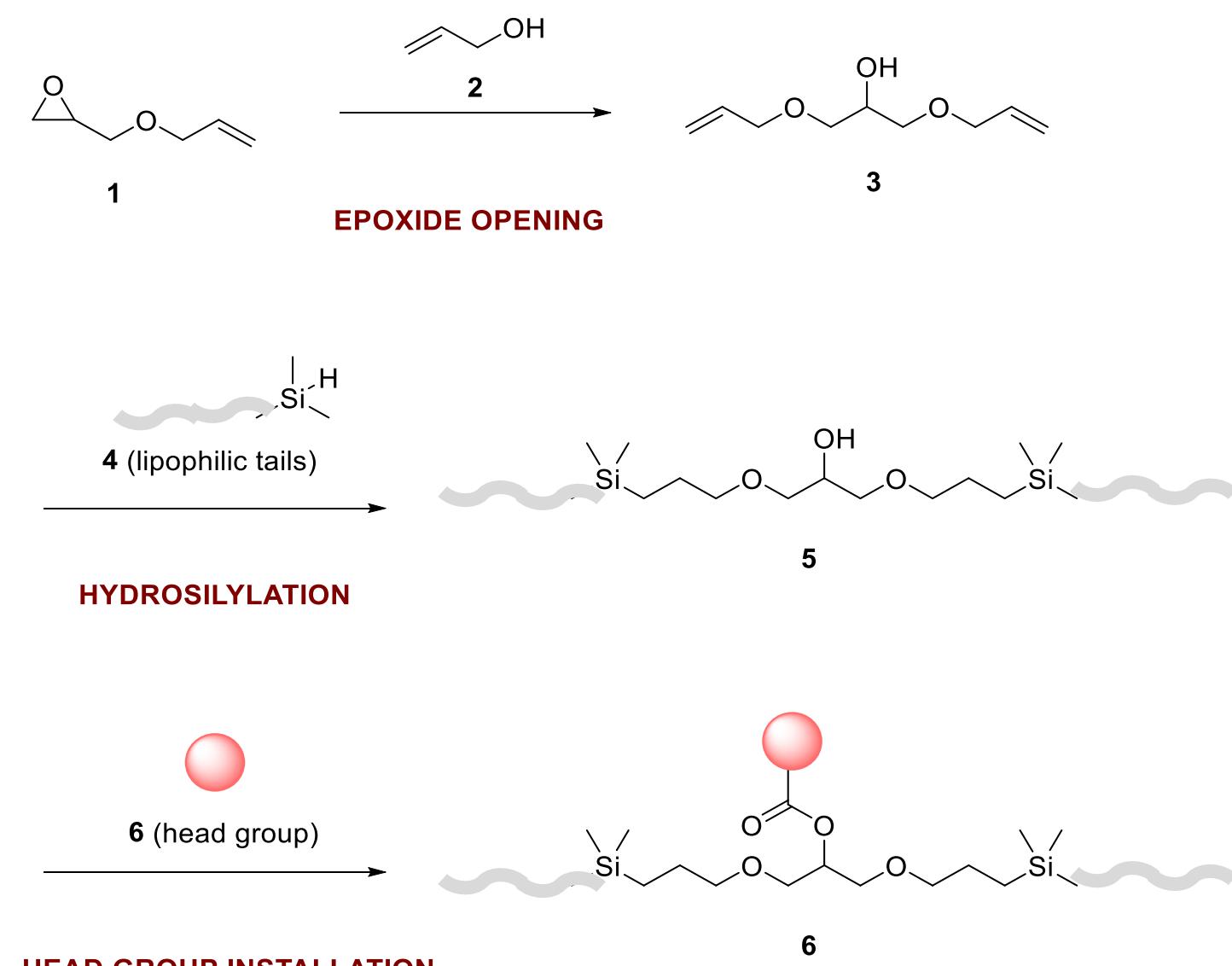


Lipid Design and Synthesis

Workflow

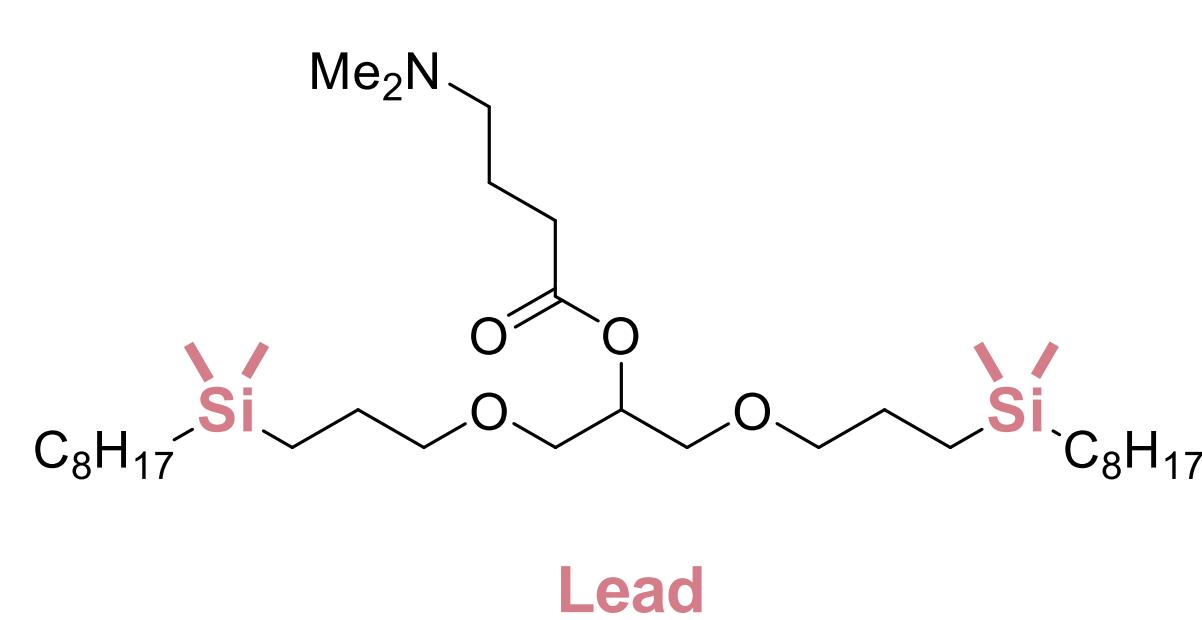


Example



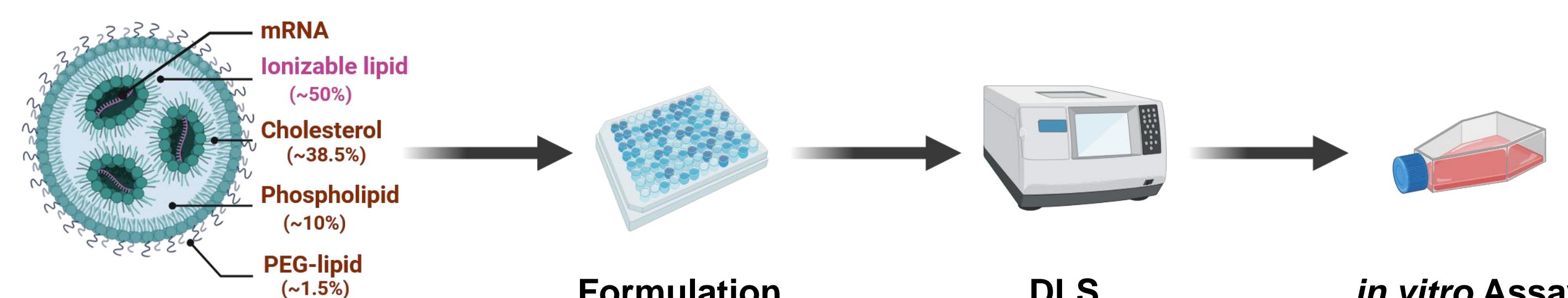
Results

- >250 lipids were synthesized varying the tail (linear, branched, Si-containing, non-Si-containing), the linker (e.g. CO, CO₂, CONH) and the head group (e.g. CO, CO₂, CONH)



LNP Production and Screening

Workflow



Results

