

DRUG DISCOVERY EXPERTISE FOR RNA TARGETS

- Leading expertise leveraging outstanding sciences and cutting edge technologies to address targeting RNA and RNA: protein complexes
- Substantial record of accomplishment with a variety of DNA and RNA modifying enzymes, including deacytylases, demethylases, acetyltransferases, ligases, helicases and methyltransferases
- Established new focus on coding and non-coding RNA targets





Evotec platforms enable identification of suitable RNA targets, find drug-like compounds that bind RNA pockets, evaluate the biological impact of binding and optimise drug candidates. Our HitID platforms include leading edge-technologies and tools, curated chemical libraries, RNA specific assays and a medicinal chemistry mindset to address the unique chemical space of RNA ligands.

Evotec offers industry leading expertise in RNA and RNA: protein complex relevant assay technologies, including RapidFire[™] mass spectrometry assays (RF/MS), affinity screening by online size exclusion chromatography coupled to mass spectrometry detection (SEC-LC/MS), Illumina single cell sequencing/Nanopore multiplexed sequencing and Switch Sense Technology.

HIT ID PLATFORM FOR RNA TARGETS

- HTS ready formats
 - Fluorescence Intensity
 - Fluorescence Polarisation
 - Displacement Assays
 - Luminescence
 - SEC-LC/MS
 - Single cell sequencing

- Orthogonal read-out technologies
- Surface Plasmon Resonance/SPR
- Nuclear Magnetic Resonance/NMR
- Thermal Shift
- Microscale Thermophoresis
- SwitchSense

TARGET VALIDATION/ENGAGEMENT

- ► Sequencing based approaches ► Cellular based assays
 - Pull Down Assays
 - SHAPE-Seq
 - nanoSHAPE-Seq
 - RNA-Seq

– ICC

- CRISPR

- FISH

- qRT-PCR/bDNA
- Immunoassays

With thousands of novel coding and non-coding RNAs being identified, Evotec can support the demands of RNA-oriented drug discovery to find novel disease intervention points by the systematic discovery of RNA ligand interactions on an industrial scale.



In situ hybridisation





NMR spectrum from RNA