

SYNTHESIS

WE SYNTHESISE IDEAS...
AND MOLECULES



JRF GLOBAL

JRF is glad to announce the introduction of custom synthesis services for pharmaceutical, agrochemical and specialty chemical companies.



OUR CAPABILITIES

- Synthesis of Impurities
- Synthesis of Metabolites
- Synthesis of reference compounds, intermediates, building blocks, novel scaffolds, NCEs, analogues for Lead Optimisation & focused libraries of up to 50 compounds
- mg to 100 g scale

WE DO

- Smartest Synthetic Routes / Schemes Development
- Metal Mediated Coupling Reactions: Pd, Cu, Ni, Mg, Li
- Peptide Coupling reactions, Acylation, Alkylation, Urea, Reduction, Oxidation, Reductive Amination, Mitsunobu, Friedel-Crafts, Wittig, Cyanation & Fluorine Chemistry
- Nucleoside & Nucleotide Chemistry, Carbohydrate Chemistry, Heterocyclic Chemistry, Chiral Chemistry / Asymmetric Synthesis & Electronic Materials Chemistry
- Autoclave and Hydrogenation

BUSINESS MODELS

- FTE
- FFS
- Collaborative / Integrated Model

WE OFFER

- Flexible & Client driven services
- Realistic Pricing & Timeline

INFRASTRUCTURE

- Lab space >2500 sq. ft., walk-in fume hoods and bench top fume hoods

INSTRUMENTATION

- Flash Chromatography
- Prep-HPLC System
- Microwave Energy Based Reaction Management
- HPLCs with UV-Vis/PDA/FL Detectors
- GC with FID/ECD
- LCMS-MS
- NMR – 400 MHz equipped with multi nuclear probe and variable temperature assembly
- FT-IR
- Melting Range Apparatus
- Hydrogenator and Autoclave (5 L, in near future)



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