



High Throughput Experimentation



WuXi AppTec's High Throughput Experimentation (HTE) platform features a proven technology for microscale high throughput experimentation, bringing efficiency to discovery and in preparation for scale-up. Through our mastery of robotic metal catalyst pre-fill systems, photo reactors with a wide band of visible light, and standardized IKA electro reactors, we bring you comprehensive solutions for challenging chemical transformations in an efficient, cost-effective manner.

120 K

Reactions Screened

2.8 M

Conditions Screened

100+

Reaction Types

24-48

Cycle Time (h)

60%

Success Rate

Lab Equipment



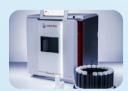
Robotic system



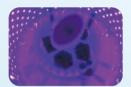
Standard IKA 2.0



96 well LED photo plate



Anton Parr MW reactor



LED strip



Kessil light



Penn PhD M2



RLH 10-50 W

Representative Reaction Types

40+ metal catalysis

- Buchwald-Hartwig coupling
- Suzuki-Miyaura coupling C-O C-P C-S
- Ullmann coupling
- Heck/Sonogashira coupling
- Miyaura borylation
- Olefin metathesis
- Stille coupling Cyanation
- Negishi coupling
- Oxygen free Chan-Lam

10+ non catalytic reactions

- Amide coupling
- Reductive amination
- Hydroxylation
- Chlorination
- Minisci reaction
- Oxidation
- Mitsunobo reaction
- SnAr reaction

40+ photo catalysis

- Decarboxlative arylation
- Decarboxlative Michael addition
- Decarboxlative coupling with NHP ester
- Cross-electrophile coupling
- Hydrogen atom transfer coupling
- Minisci reaction
- Molander salt coupling
- Silicate salt coupling
- Cyclopropanation
- C-N C-O C-B bond formation
- De-Ts, De-PMB, De-Bn

20+ electro catalysis

- Sterically hindered (cyclic or non) decarboxylative cross-coupling
- CEC for tolerance issue targeted protein degraders
- Shono oxidation
- BCP ring arylations which failed in photoredox
- C-H trifluoromethylation of 2-pyridones
- Olefine derivatizations cyclizations



Contact us





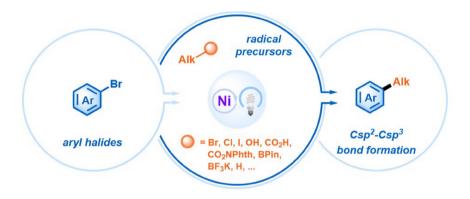


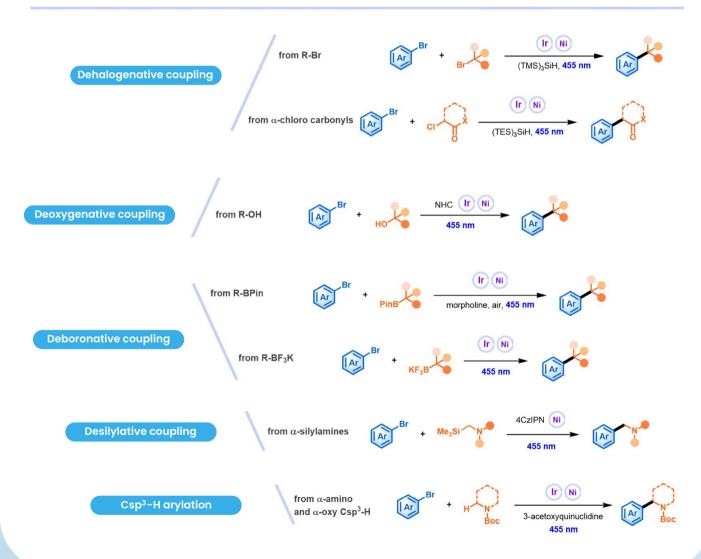
chemistry service@wuxiapptec.com



Research Chemistry Services

Csp²-Csp³Bond Formation





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