



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)

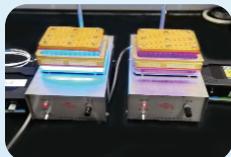
60%

Success Rate

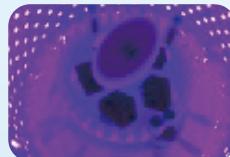
Lab Equipment



Robotic system



96 well LED photo plate



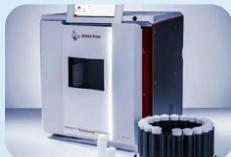
LED strip



Penn PhD M2



Standard IKA 2.0



Anton Parr MW reactor



Kessil light



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

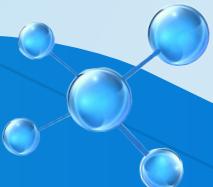
- Decarboxylative arylation
- Decarboxylative Michael addition
- Decarboxylative coupling with NHP ester
- Cross-electrophile coupling
- Hydrogen atom transfer coupling
- Minisci reaction
- Molander salt coupling
- Silicate salt coupling
- Cyclopropanation
- C–N C–O C–B bond formation
- De-Ts, De-PMB,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

20+ electro catalysis

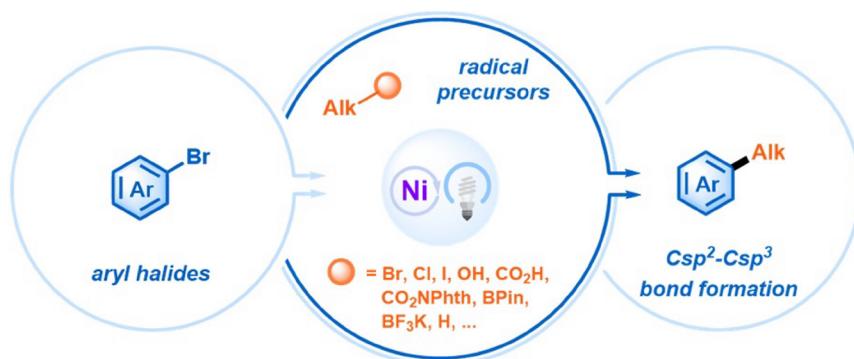
- Sterically hindered (cyclic or non) decarboxylative cross-coupling
- CEC for tolerance issue targeted protein degraders
- Shono oxidation
- BCP ring arylations which failed in photoredox
- C–H trifluoromethylation of 2-pyridones
- Olefine derivatizations cyclizations



Contact us

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Csp²-Csp³ Bond Formation

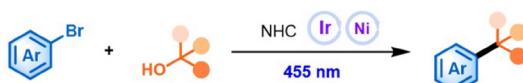


Dehalogenative coupling



Deoxygenative coupling

from R-OH

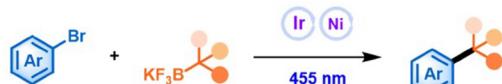


Deboronative coupling

from R-BPin

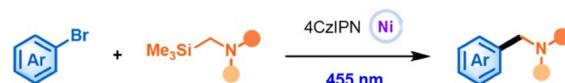


from R-BF₃K



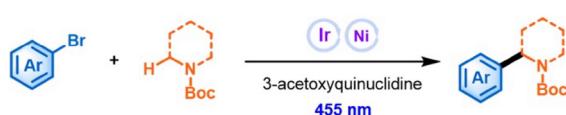
Desilylative coupling

from α -silylamines



Csp³-H arylation

from α -amino and α -oxy Csp³-H



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