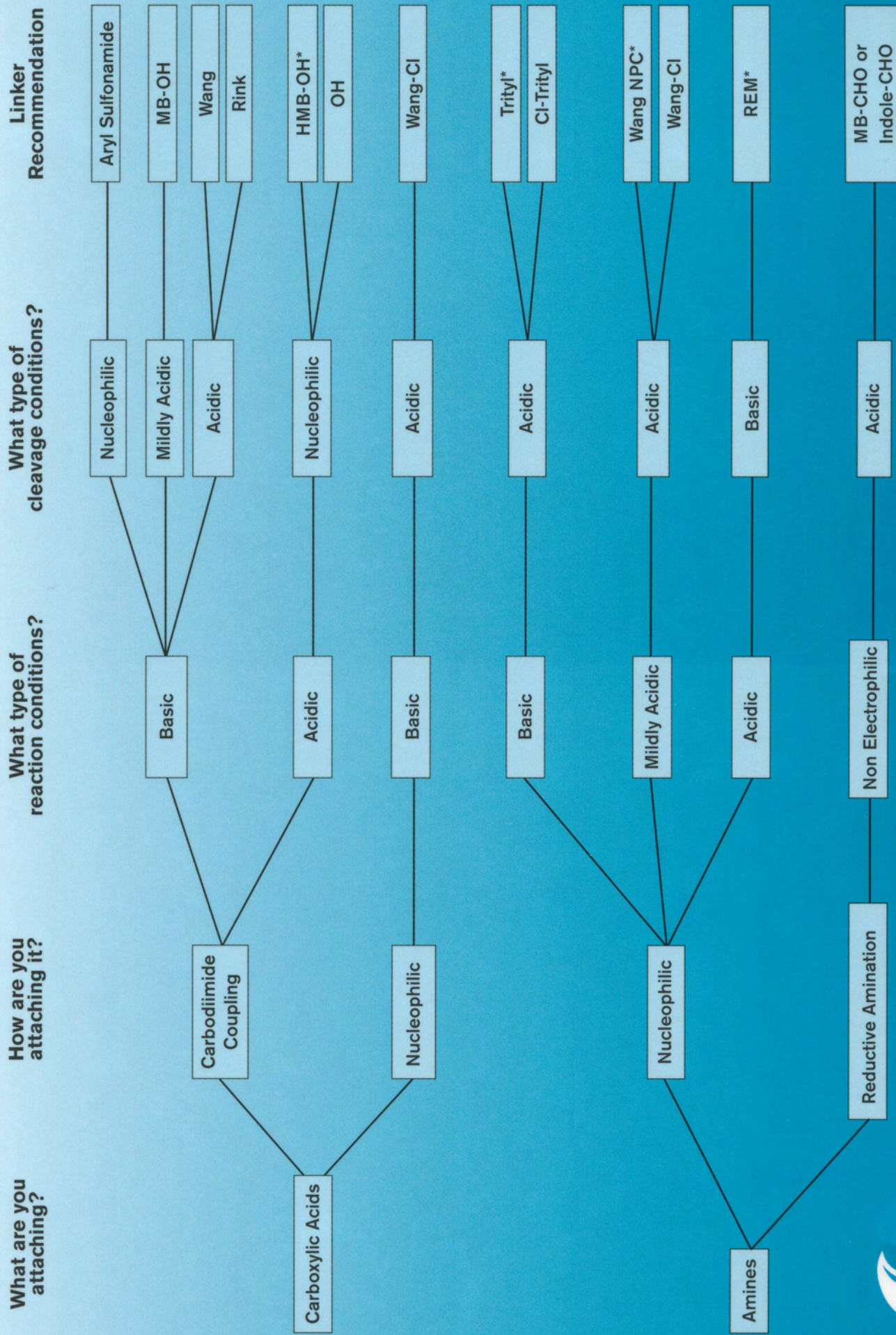
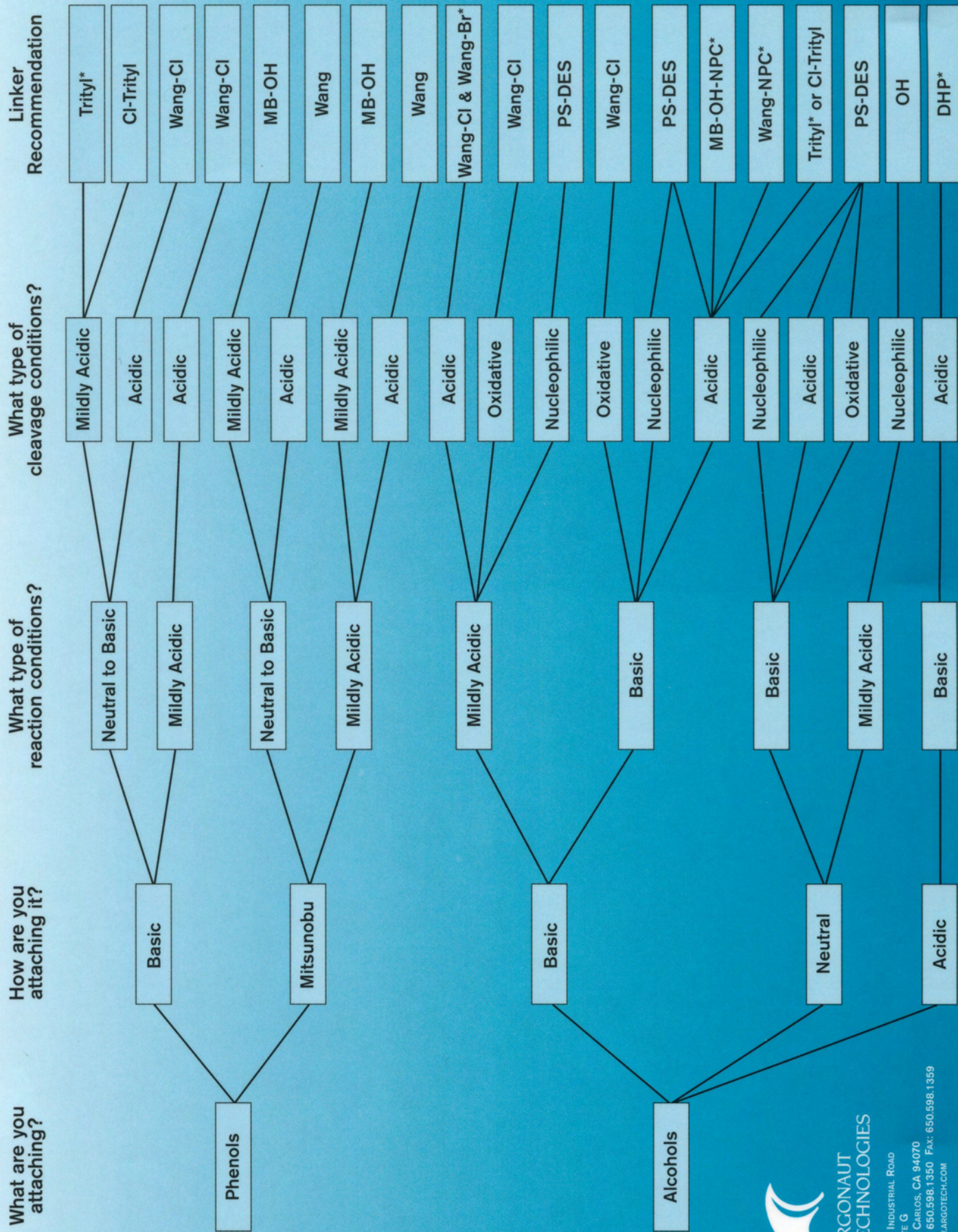


Solid Phase Linker Selection Guide



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* Denotes that linker is available as a custom synthesis



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Polymer Reagents

What type of reagent?
What application?

Recommended
Polymer Reagent

Electrophilic Activation

Halogenation
(chlorination, bromination, iodination)

PS-Triphenylphosphine

Phenylether formation
(i.e. Mitsunobu reaction)

PS-Triphenylphosphine

Thioester active intermediate

PS-Thiophenol

Alcohol activation

PS-TsCl

Acid and sulfonyl chloride activation

PS-DMAP

Nucleophilic Activation

Carbon-carbon bond formation
(e.g. Wittig reaction)

PS-Triphenylphosphine

Sulfonyl hydrazone formation
(e.g. Hurd-Mori thiazazole synthesis)

PS-TsNHNH2

What type of reagent?
What application?

Recommended
Polymer Reagent

Bases

Basic quenching, neutralize ammonium salts

MP-Carbonate

Strong tertiary amine base
(e.g. mesylate formation)

PS-DIEA

Tertiary amine base
(e.g. formation of amides, sulfonamides, carbamates)

PS-NMM

Acids

Acid quenching

MP-TsOH
PS-DIEA HCl

Catalysts

Acids

MP-TsOH

Acyl transfer

PS-DMAP

Coupling Agents

Amide or ester formation

PS-Carbodiimide
PS-HOBt

Activated ester formation

PS-Carbodiimide

Protecting group transfer

PS-HOBt

Scavengers

... for Electrophiles

Which compound to scavenge?

Recommended Scavengers preferred scavengers in bold

Carbonyls

PS-TsNHNH₂
PS-Trisamine

Alkylating agents

Alkyl halides,
Mesyates,
Tosylates,
 α -bromoesters,
 α -bromoketones

PS-Thiophenol
PS-Triphenylphosphine

Acid chlorides

PS-Trisamine
PS-NH₂

Sulfonyl chlorides

PS-Trisamine
PS-DMAP
PS-NH₂

Isocyanates

PS-Trisamine
PS-NH₂

Epoxides

PS-Thiophenol

... for Nucleophiles

Which compound to scavenge?

Recommended Scavengers preferred scavengers in bold

Alcohols

PS-TsCl-HL

PS-Isocyanate

MP-TsOH
PS-TsCl-HL

Primary,
Secondary

Amines

Selective for Primary

Anilines (aromatic)

PS-Benzaldehyde

PS-TsCl-HL

MP-TsOH
PS-Isocyanate

Hydrazines

PS-Benzaldehyde

PS-TsCl-HL

Active methylenes
(e.g., keto esters)

PS-Benzaldehyde

Thiols/Thiolates

PS-Isocyanate

PS-Thiophenol

Alkoxides

PS-TsCl-HL

PS-Isocyanate

Organometallics

PS-Benzaldehyde

PS-TsCl-HL

Reducing agents

PS-Benzaldehyde

Acids/Acidic phenols

HOBt
Pentafluorophenol
4-Nitrophenol
Carboxylic Acid
Phenol

MP-Carbonate

PS-Trisamine