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## Asymmetric Cu-catalyzed 1,2 and 1,4-additions of Grignard reagents

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## 8. List of abbreviations:

$S_N2$ : bimolecular nucleophilic substitution	pag. 5
CBS reduction: Corey – Bakshai – Shibata reduction	pag. 8
<i>ee</i> : enantiomeric excess	pag. 8
MeMgBr: methylmagnesium bromide	pag. 8
HPLC: high performance liquid chromatography	pag. 9
<i>rac</i> -estrone: racemic estrone	pag. 10
TBAF: tetra-n-butylammonium fluoride	pag. 10
<i>ent</i> -cholesterol: enantiomer-cholesterol	pag. 12
TMS: trimethylsilyl	pag. 15
CO: carbon monoxide	pag. 16
NMO: N-methylmorpholine-N-oxide	pag. 20
IMDA: intramolecular Diels-Alder	pag. 24
TMSO: trimethylsiloxy	pag. 25
BISTRO: 1,8- bis(trimethylsilyl)-2,6-octadiene	pag. 25
TMSCl: trimethylsilyl chloride	pag. 26
TBS: <i>tert</i> -butyl silyl	pag. 28
Rev-Josiphos: reverse Josiphos	pag. 34
<i>dr</i> : distereomeric ratio	pag. 34
<i>er</i> : enantiomeric ratio	pag.34
CG-MS: gas chromatography- mass spectrometry	pag. 36
GC: gas chromatography	pag. 36
HMPA: hexamethylphosphoramide	pag. 40
TMEDA: tetramethylethylenediamine	pag. 40
THF: tetrahydrofuran	pag. 40

DME: dimethoxyethene	pag. 40
MTBE: methyl <i>tert</i> -butyl ether	pag. 40
DMPU: N,N'-dimethylpropyleneurea	pag. 42
NHC: N-heterocyclic carbene	pag. 44
TBDMS: <i>tert</i> -butyl dimethyl silyl	pag. 60
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