Appendix Nine

Notebook Cross-Reference for New Compounds

NOTEBOOK CROSS-REFERENCE FOR NEW COMPOUNDS

The following notebook cross-reference has been included to facilitate access to the original spectroscopic data obtained for the compounds presented in this thesis. For each compound, both hard copy and electronic characterization folders have been created that contain the original ^{1}H NMR, ^{13}C NMR, ^{19}F NMR, ^{31}P NMR, and IR spectra. All notebooks and spectroscopic data are stored in the Stoltz group archives.

Table A9.1 Compounds in Chapter Two: Early Approaches to the Synthesis of Zoanthenol.

Compound	Procedure	^{1}H NMR	^{13}C NMR	IR
(+)-134a	DCBXXV_103	DCBXXV_103_HighRf_H	DCBXXV_103_HighRf_C	DCBXXV_103_HighRf
(–)-134b	DCBXXV_103	DCBXXV_103_LowRf_H	DCBXXV_103_LowRf_C	DCBXXV_103_LowRf
135	DCBX_175	DCBXXVIII_235_H	DCBXXVIII_235_C	DCBXXVIII_235
137	DCBI_251	DCBXXIX_65_H	DCBXXIX_65_C	DCBXXIX_65
147	DCBX_339	DCBXII_239_H	DCBXII_239_C	DCBXII_239
148	DCBX_299	DCBXI_Benzaldehyde_H	DCBXI_Benzaldehyde_C	DCBXXVI_93_HighRf
149	DCBX_299	DCBXXVI_93_LowRf_H	DCBXXVI_93_LowRf_C	DCBXXVI_93_LowRf
150	DCBXXVIII_225	DCBXXVIII_225_H	DCBXXVIII_225_C	DCBXXVIII_225
151	DCBXII_217	DCBXII_217_H	DCBXII_217_C	DCBXII_217
145	DCBXI_59	DCBXXVIII_237_H	DCBXXVIII_237_C	DCBXXVIII_237
(+)-153	DCBXXV_101	DCBXXV_99_41_H	DCBXXV_99_C	DCBXXV_99
155	DCBXI_67	BBG_Grignard_H	BBG_Grignard_Pdt_C	BBG_Grignard_Pdt
156	DCBXXVIII_227	DCBXXVIII_227_H	DCBXXVIII_227_C	DCBXXVIII_227
157	DCBXXIX_61	DCBXXIX_61_	DCBXXIX_61_	DCBXXIX_61

		H	C	
161	DCBXI_99	DCBXXVIII_241_H	DCBXXVIII_241_CD2CL2_C	DCBXXVIII_241
162	DCBVII_189	DCBVII_189_H	DCBVII_189_C	DCBVII_189
163	DCBX_281-285	DCBX_185_H	DCBX_185_C	DCBX_185
168	DCBXII_93	DCBXXVIII_Tf_H	DCBXXVIII_Tf_C	DCBXXVIII_Tf
169	DCBX_235	DCBVIII_115_H	DCBVIII_115_C	DCBVIII_115
170	DCBVIII_173	DCBVIII_173_H	DCBVIII_173_C	DCBVIII_173
172	DCBVIII_223, 227,231	DCBXXVIII_257_final_H	DCBXXVIII_257_C	DCBXXVIII_257
173	DCBIX_69	DCBXXVIII_259_CDCL3_H	DCBXXVIII_259A_C	DCBXXVIII_259
174	DCBIX_131	DCBXXVIII_261_H	DCBXXVIII_261_C	DCBXXVIII_261
175	DCBXXVIII_269	DCBXXVIII_269_H	DCBXXVIII_269_C	DCBXXVIII_269

Table A9.2 Compounds in Chapter Three: Current Approaches to the Synthesis of Zoanthenol: Synthesis of the ABC Ring System Containing All of the Quaternary Stereocenters.

Compound	Procedure	^{1}H NMR	^{13}C NMR	IR
202	DCBXXVI-77	ThesisChar1_1Hredo	ThesisChar1_13C	ThesisChar1
203	JLSIX_155	Diene_H	Diene_C	JLSX_295
205	JLSXI_25	ThesisChar9_1H	ThesisChar9_13C	JLSVII_73
209	JLSXI_27	JLSV_87_1	IodoLact_C	JLSV_153
210	DCBXXVIII_143	ThesisChar2_1H	ThesisChar2_13C	ThesisChar2
211	DCBXXVIII_151	ThesisChar3_1H	ThesisChar3_13C	ThesisChar3
212	DCBXXVI_163	DCBXXVI_163_H	DCBXXVI_163_C	DCBXXVI_163
213	DCBXXVI_149	DCBXXVI_149_H	DCBXXVI_149_C	DCBXXVI_149

214	DCBXXVI_191	DCBXXVI_191_H	DCBXXVI_191_C	DCBXXVI_191
215	DCBXXVI_137	DCBXXVI_195_H	DCBXXVI_195_C	DCBXXVI_195
216	DCBXXVI_199	DCBXXVI_199_H	DCBXXVI_199_C	DCBXXVI_199
217	DCBXXVI_147	DCBXXVI_101_24_H	DCBXXVI_147_C	DCBXXVI_147
218	DCBXXVI_189	DCBXXVI_189_H	DCBXXVI_189_C	DCBXXVI_189
220	DCBXXVI_193	DCBXXVI_193_H	DCBXXVI_193_C	DCBXXVI_193
227	JLSVIII_299	ThesisChar4_1H	ThesisChar4_13C	ThesisChar4
228	JLSVIII_303	ThesisChar5_1H	ThesisChar5_13C	ThesisChar5
229	JLSX_49	DCBXXVII_157_LS	JLSIX_47_2_C	JLSIX_47_2
230	JLSX_49	DCBXXVII_161TS	JLSIX-47_1_CDCL3_C	JLSIX-47_1
232	DCBXXVII_215	JLSIX_25_1_H	JLSIX_25_1_C	JLSIX_25_1
233a	DCBXXVII_225	DCBXXVII_225 HighRf_H	DCBXXVII_225_HighRf_C	DCBXXVII_225_HighRf
233b	DCBXXVII_225	DCBXXVII_211_39	DCBXXVIII_33_LowRf_C	DCBXXVIII_33_LowRf
234	DCBXXVII_219	DCBXXVII_243_SM_H	DCBXXVII_243_SM_C	DCBXXVII_243_SM
235	DCBXXVIII 239	DCBXXVIII_51_H	DCBXXVIII_51_C	DCBXXVIII_51
236	DCBXXVIII_243	DCBXXVIII_243_H	DCBXXVIII_243_C	DCBXXVIII_243
237	DCBXXVIII_247	DCBXXVIII_95_H	DCBXXVIII_95_C	DCBXXVIII_95
238	JLSIX_213	ThesisChar6_1HRedo	ThesisChar6_13CRedo	ThesisChar6
239	DCBXXVII_217	DCBXXVII_217_H	DCBXXVII_217_C	DCBXXVII_217
240	JLSIX_105	DCBXXVII_145SM_H	DCBXXVII_145SM_C	DCBXXVII_145SM
241	JLS IX_101 JLS IX_107	DCBXXVII_153C6D6_H	DCBXXVII_153C6D6_C	DCBXXVII_153
242	JLSX_21 JLSIX_179	DCBXXVII_163_H	DCBXXVII_163_C	DCBXXVII_163
243	JLSIX_193	DCBXXVIII_9	DCBXXVIII_97	DCBXXVIII_9

	JLSIX_211	7_H	_C	7
247	DCBXXVII_255 and 257	DCBXXVIII_53_LowRf_H	DCBXXVIII_53_LowRf_C	DCBXXVIII_53_LowRf
248	DCBXXVII_255 and 257	DCBXXVIII_53_HighRf_H	DCBXXVIII_53_HighRf_C	DCBXXVIII_53_HighRf
250	DCBXXVIII_99	DCBXXVIII_99_48_H	DCBXXVIII_99_48_C	DCBXXVIII_99_48
251	DCBXXVIII_251	DCBXXVIII_159_H	DCBXXVIII_159_C	DCBXXVIII_159
252	JLSX_31 JLSX_121 JLSX_135	ThesisChar7_1Hb	ThesisChar7_13C	ThesisChar7
253	DCBXXIX_49	DCBXXIX57_H	DCBXXVIII_255_C	DCBXXVIII_163_29B
255	DCBXXIX_59	DCBXXIX_59_H	DCBXXIX_59_C	DCBXXIX_55
257	DCBXXV_31	DCBXXIV_249_19_H	DCBXXIV_249_19_C	DCBXXIV_249_19
258	DCBXXV_39	DCBXXV_39_19_H	DCBXXV_39_19_C	DCBXXV_39
259	DCBXXV_77	DCBXXV_77_37_H	DCBXXV_77_C	DCBXXV_77
260	DCBXXV_79	DCBXXV_83_H	DCBXXV_83_C	DCBXXV_83
262	DCBXXV_113	DCBChar11_H	DCBXXIX_Char11_C	DCBXXV_113
263	DCBXXV_115	DCBthesisChar10_H	DCBthesisChar10_C	DCBXXIX_thesisChar10

Table A9.3 Compounds in Chapter Four: The Development of an Asymmetric Tsuji Allylation Reaction.

Compound	^{1}H NMR	^{13}C NMR	IR
295	DCBXVI_195_H	DCBXVI_195_C	DCBXVI_195
298	KTIII_033_H	KTIII_033_C	KTIII033
299	KTIII_021_H	KTIII_021_C	KTIII_021
300	KTIII_061_H	KTIII_061_C	KTI_261
301	CyPHOX_H	CyPHOX_C	CYPHOX
302	KTII_225_H	KTII_225_C	KTII_225
303	KTIII_023_H	KTIII_023_C	KTIII_023
304	KTIII_025_H	KTIII_025_C	KTIII_025
307	KTIII_223_H	KTIII_223_C	KTIII_223
308	DCBXIV_107_H	DCBXIV_107_C	DCBXIV_107

309	KTIII_221_H	KTIII_221_C	KTIII_221
310	DCBXVIII_299_H	DCBXVIII_299_C	DCBXVIII_299
311	DCBXV_99_H	DCBXV_99_C	DCBXV_99
312	DCBXIV_165_1HChar	DCBXIV_165_13C	DCBXIV_165
313	KTIII_213_H	KTIII_213_C	KTIII_213
314	KTIII_215_H	KTIII_215_C	KTIII_215
315	KTIII_231_H	KTIII_231_C	KTIII_231
317	DCBXIV_233_H	DCBXIV_233_C	DCBXIV_233
318	DCBXV_45_H	DCBXV_45_C	DCBXV_45
435	KTIII_063_H	KTIII_063_C	KTI_265
436	KTII_075_H	KTII_075_C	KTII_075
437	KTIII_191_H	KTIII_191_C	KTIII_191
274	DCBXXI_243_H	DCBXXI_243_C	DCBXXII_51
296	DCBXVI_241_H	DCBXVI_241_C	DCBXVI_241
320	DCBXXI_243_H	DCBXXSI_243_C	DCBXXII_123
322	DCBXXII_199_final_H	DCBXXII_199_final_C	DCBXXII_199
324	DCBXVII_047_20_H1	DCBXVII_047_20_C	DCBXVII_047
326	DCBXVII_075_H	DCBXVII_075_C	DCBXVII_075
328	DCBXXII_193_H	DCBXXII_193_C	DCBXXII_193
330	DCBXV_249_H	DCBXV_249_C 1	DCBXV_249
332	DCBXXIII_93_H	DCBXXIII_93_C	DCBXXIII_93
333	DCBXXII_91_21_H	DCBXXII_91_21_C	DCBXXII_91
335	DCBXXII_89_H	DCBXXII_89_C	DCBXXII_89
337	DCBXXIII_35_H	DCBXXIII_35_C	DCBXXIII_35
339	DCBXXIII_95_H	DCBXXIII_95_C	DCBXXIII_95
422	DCBXV_259_H	DCBXV_259_C	DCBXV_259
425	ECKI_61_H	ECKI_61_C	ECKI_61
426	DCBXXIII_251_H	DCBXXIII_251_C	DCBXXIII_251
428	DCBXV_283_H	DCBXV_283_C	DCBXV_283
429	DCBXVI_153_H	DCBXVI_153_C	DCBXVI_153
431	DCBXV_285_H	DCBXV_285_C	DCBXV_285
433	DCBXXII_183_H	DCBXXII_183_C	DCBXXII_183
441	DCBXV_231_H	DCBXV_231_C	DCBXV_231
442	DCBXV_233_H	DCBXV_233_C	DCBXV_233
347	DCBXXII_MeSilylenolEther_H	DCBXXII_MeSilylenol Ether_C	DCBXXII_MeSi
348	DCBXXII_247_H	DCBXXII_247_C	DCBXXII_247
349	DCBXXIII_273_C6D6_H	DCBXXIII_273_C6D6Hg2_C	DCBXXIII_273
351	DCBXXIII_073_H	DCBXXIII_073_C	DCBXXIII_073
353	DCBXXIII_81_H	DCBXXIII_81_C	DCBXXIII_81
354	DCBXXII_295 _H	DCBXXII_295 _C	DCBXXII_295

355	DCBXXIII_79_H	DCBXXIII_79_C	DCBXXIII_79
358	DCBXXIII_265_H	DCBXXIII_265_C	DCBXXIII_265
262	JTMVI-85C_1H	JTMVI-85C_13C	JTMVI-85C_IR
364	DCBXXIV_101_H	DCBXXIV_101_C	DCBXXIV_101
367	JTMVI-151B_1H	JTMVI-151B_13C	JTMVI-151B_IR
368	JTMVII-35C_1H	JTMVII-35C_13C	JTMVII-35C_IR
370	JTMVII-39E_1H	JTMVII-39E_13C	JTMVII-39E_IR
372	JTMVII-37D_1H	JTMVII-37D_13C	JTMVII-37D
374	DCBXXIV_297_H	DCBXXIV_297_C	DCBXXIV_297
376	JTMVI-121D_1H	JTMVI-121D_13C	JTMVI-121D_IR
378	DCBXXIV_295_H	DCBXXIV_295_C	DCBXXIV_295
380	AMH-I-225	AMH-I-193-13C	AMH-I-225-IR
382	AMH-III-055B	AMH-III-055B-13C	AMH-III-055B-IR
383	DCBXXIV_121_H	DCBXXIV_121_C	DCBXXIV_121
384	JTMVI-105B_1H	JTMVI-105B_13C	JTMVI-105B_IR
386	JTMVI-217B_1H	JTMVI-217B_13C	JTMVI-217B_IR
387	JTMVI-99B_1H	JTMVI-99B_13C	JTMVI-99B_IR
388	MRKVI-227b_1H	MRKVI-227b_13C	MRKVI-227b
390	MRKVIII-61c_1H	MRKVIII-61c_13C	MRKVIII-61c
392	JTMVI-213B_1H	JTMVI-213B_13C	JTMVI-213B_IR
393	JTMVI-215B_1H	JTMVI-215B_13C	JTMVI-215B_IR
395	DCBXXV_37_H	DCBXXV_37_C	DCBXXV_37
397	AMH-II-159	AMH-II-159-13C	AMH-II-159-IR
406	AMH-V-035-H	AMH-II-035-13C	AMH-II-035-IR
408	AMH-V-037B-H	AMH-V-037B-13C	AMH-II-037B-IR
410	JTMVII-273B_1H	JTMVII-273B_13C	JTMVII-273B_IR
412	AMH-V-067-H	AMH-V-067-13C	AMH-V-067-IR
414	JTMVII-275B_1H	JTMVII-275B_13C	JTMVII-275B_IR
416	AMH-V-065A-H	AMH-V-065A-13C	AMH-V-065A-IR
418	JTMVII-189B_1H	JTMVII-189B_13C	JTMVII-189B_IR
420	JTMVII-245B_1H	JTMVII-245B_13C	JTMVII-245B_IR
275	DCBXXII_061_H	DCBXXII_061_C	DCBXXII_061
297	DCBXXII_71_H	DCBXXII_71_C	DCBXXII_71
321	DCBXXII_133_H	DCBXXII_133_C	DCBXXII_133
SI8	DCBXXIII_33_H	DCBXXIII_33_C	DCBXXIII_33
325	DCBXXII_135_H	DCBXXII_135_C	DCBXXII_135
327	DCBXXII_229_H	DCBXXII_229_C	DCBXXII_229
329	DCBXXII_201_H	DCBXXII_201_C	DCBXXII_201
331	DCBXXII_115_H	DCBXXII_115_C	DCBXXII_115
152	DCBXXIII_97_H	DCBXXIII_97_C	DCBXXIII_97
334	DCBXXII_109_H	DCBXXII_109_C	DCBXXII_109
336	DCBXXII_105_H	DCBXXII_105_C	DCBXXII_105
338	DCBXXIII_51_H	DCBXXIII_51_C	DCBXXIII_51
340	DCBXXIII_103_H	DCBXXIII_103_C	DCBXXIII_103
350	DCBXXIII_299_H	DCBXXIII_287_C	DCBXXIII_287

352	DCBXXIII_297_H	DCBXXIII_297_C	DCBXXIII_297
369	JTMVII-63B_1H	JTMVII-63B_13C	JTMVII-63B_IR
371	JTMVII-89B_1H	JTMVII-89B_13C	JTMVII-89B_IR
373	JTMVII-73B_1H	JTMVII-73B_13C	JTMVII-73B_IR
375	JTMVII-57B_1H	JTMVII-57B_13C	JTMVII-57B_IR
377	JTMVI-177B_1H	JTMVI-177B_13C	JTMVI-177B_IR
379	DCBXXV_59_H	DCBXXV_59_C	DCBXXV_59
381	AMH-I-229	AMH-I-229-13C	AMH-I-229-IR
256	DCBXXIV_151_H	DCBXXIV_151_C	DCBXXIV_151
385	JTMVI-161B_1H	JTMVI-161B_13C	JTMVI-161B_IR
389	MRKVII-33b_1H	MRKVII-33b_13C	MRKVII-33b
391	MRKVIII-65_1H	MRKVIII-65_13C	MRKVIII-65
394	JTMVII-31C_1H	JTMVII-31C_13C	JTMVII-31C
396	JTMVII-81B_1H	JTMVII-81B_13C	JTMVII-81B
398	AMH-III-061-C2	AMH-III-061-C2-13C	AMH-III-061-C2 -IR
407	AMH-V-075-H	AMH-V-075-13C	AMH-V-075-IR
409	AMH-V-073-H	AMH-V-073-13C	AMH-V-073-IR
411	JTMVII-283B_1H	JTMVII-283B_13C	JTMVII-283B
413	AMHV-127-H	AMHV-127_-3C	AMHV-127-IR
415	JTMVII-291B_1H	JTMVII-291B_13C	JTMVII-291B
417	AMHV-133-1H	AMHV-133-13C	AMHV-133-IR
421	JTMVII-287B_1H	JTMVII-287B_13C	JTMVII-287B
430	DCBXXIII_301_H	DCBXXIII_301_C	DCBXXIII_301
432	DCBXXIII_259_H	DCBXXIII_259_C	DCBXXIII_259
434	DCBXXIII_263_H	DCBXXIII_263_C	DCBXXIII_263
341	DCBXVI_227_H	DCBXVI_227_C	DCBXVI_227
343	DCBXXII_079_H	DCBXXII_079_C	DCBXXII_079
344	DCBXXIII_49_H	DCBXXIII_49_C	DCBXXIII_49
399	DCBXXIII_223_H	DCBXXIII_223_C	DCBXXIII_223
400	DCBXXIII_209_H	DCBXXIII_209_C	DCBXXIII_209
401	DCBXXIII_219_H	DCBXXIII_219_C	DCBXXIII_219
402	DCBXXIV_041_H	DCBXXIV_041_C	DCBXXIII_159
403	DCBXXVIII_301_H	DCBXXVIII_301_C	DCBXXVIII_301
404	DCBXXVIII_299_H	DCBXXVIII_299_C	DCBXXVIII_299
405	DCBXXVIII_303_H	DCBXXVIII_303_C	DCBXXVIII_303
356	DCBXXVIII_295_H	DCBXXVIII_295_C	DCBXXVIII_295