Electronic Supplementary Material (ESI) for Chemistry Education Research and Practice.
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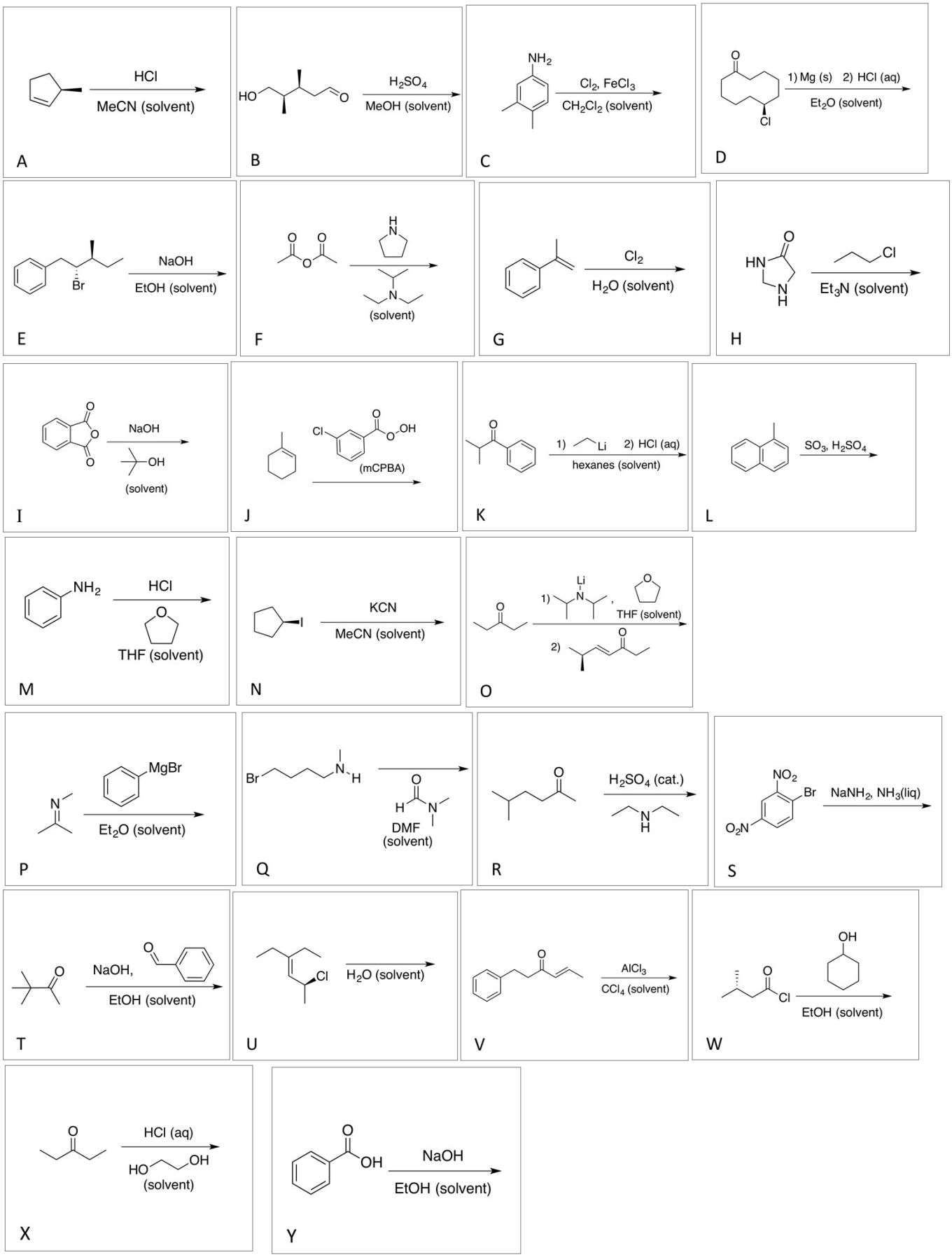
Appendix I

Reaction Cards



Correlations

Spearman's rho	Match with expert sort 2018	Correlation Coefficient		
		Sig. (2-tailed)		
		N		
		Bootstrap[c]	Bias	
			Std. Error	
			BCa 95% Confidence Interval	Lower
				Upper
	Match with expert sort 2017	Correlation Coefficient		
		Sig. (2-tailed)		
		N		
		Bootstrap[c]	Bias	
			Std. Error	
			BCa 95% Confidence Interval	Lower
				Upper
	Level of Interpretation 2018	Correlation Coefficient		
		Sig. (2-tailed)		
		N		
		Bootstrap[c]	Bias	
			Std. Error	
			BCa 95% Confidence Interval	Lower
				Upper
	Level of interpretation 2017	Correlation Coefficient		
		Sig. (2-tailed)		
		N		
		Bootstrap[c]	Bias	
			Std. Error	
			BCa 95% Confidence Interval	Lower
				Upper

Correlations

					Match with expert sort 2018
Spearman's rho	Match with expert sort 2018	Correlation Coefficient			1.000
		Sig. (2-tailed)			.
		N			20
		Bootstrap[c]	Bias		.000
			Std. Error		.000
			BCa 95% Confidence Interval	Lower	.
				Upper	.
	Match with expert sort 2017	Correlation Coefficient			.616**
		Sig. (2-tailed)			.004
		N			20
		Bootstrap[c]	Bias		-.006
			Std. Error		.172
			BCa 95% Confidence Interval	Lower	.190
				Upper	.916
	Level of Interpretation 2018	Correlation Coefficient			-.100
		Sig. (2-tailed)			.675
		N			20
		Bootstrap[c]	Bias		-.013
			Std. Error		.268
			BCa 95% Confidence Interval	Lower	-.581

				Upper	.342
	Level of interpretation 2017	Correlation Coefficient			.397
		Sig. (2-tailed)			.083
		N			20
		Bootstrap[c]	Bias		-.012
			Std. Error		.215
			BCa 95% Confidence Interval	Lower	-.049
				Upper	.730

Correlations

					Match with expert sort 2017
Spearman's rho	Match with expert sort 2018	Correlation Coefficient			.616**
		Sig. (2-tailed)			.004
		N			20
		Bootstrap[c]	Bias		-.006
			Std. Error		.172
			BCa 95% Confidence Interval	Lower	.190
				Upper	.916
	Match with expert sort 2017	Correlation Coefficient			1.000
		Sig. (2-tailed)			.
		N			20
		Bootstrap[c]	Bias		.000
			Std. Error		.000
			BCa 95% Confidence Interval	Lower	.
				Upper	.
	Level of Interpretation 2018	Correlation Coefficient			-.084
		Sig. (2-tailed)			.725
		N			20
		Bootstrap[c]	Bias		-.013
			Std. Error		.233
			BCa 95% Confidence Interval	Lower	-.528
				Upper	.300
	Level of interpretation 2017	Correlation Coefficient			.283
		Sig. (2-tailed)			.226
		N			20
		Bootstrap[c]	Bias		-.006
			Std. Error		.229
			BCa 95% Confidence Interval	Lower	-.244
				Upper	.703

Correlations

					Level of Interpretation 2018
Spearman's rho	Match with expert sort 2018	Correlation Coefficient			-.100
		Sig. (2-tailed)			.675
		N			20
		Bootstrap[c]	Bias		-.013
			Std. Error		.268
			BCa 95% Confidence Interval	Lower	-.581
				Upper	.342
	Match with expert sort 2017	Correlation Coefficient			-.084
		Sig. (2-tailed)			.725
		N			20
		Bootstrap[c]	Bias		-.013
			Std. Error		.233
			BCa 95% Confidence Interval	Lower	-.528

				Upper	.300
	Level of Interpretation 2018	Correlation Coefficient			1.000
		Sig. (2-tailed)			.
		N			20
		Bootstrap[c]	Bias		.000
			Std. Error		.000
			BCa 95% Confidence Interval	Lower	.
				Upper	.
	Level of interpretation 2017	Correlation Coefficient			-.144
		Sig. (2-tailed)			.544
		N			20
		Bootstrap[c]	Bias		.003
			Std. Error		.248
			BCa 95% Confidence Interval	Lower	-.523
				Upper	.283

Correlations

					Level of interpretation 2017
Spearman's rho	Match with expert sort 2018	Correlation Coefficient			.397
		Sig. (2-tailed)			.083
		N			20
		Bootstrap[c]	Bias		-.012
			Std. Error		.215
			BCa 95% Confidence Interval	Lower	-.049
				Upper	.730
	Match with expert sort 2017	Correlation Coefficient			.283
		Sig. (2-tailed)			.226
		N			20
		Bootstrap[c]	Bias		-.006
			Std. Error		.229
			BCa 95% Confidence Interval	Lower	-.244
				Upper	.703
	Level of Interpretation 2018	Correlation Coefficient			-.144
		Sig. (2-tailed)			.544
		N			20
		Bootstrap[c]	Bias		.003
			Std. Error		.248
			BCa 95% Confidence Interval	Lower	-.523
				Upper	.283
	Level of interpretation 2017	Correlation Coefficient			1.000
		Sig. (2-tailed)			.
		N			20
		Bootstrap[c]	Bias		.000
			Std. Error		.000
			BCa 95% Confidence Interval	Lower	.
				Upper	.