How to Identify the Proper Statistical Model

1) Variables
(qual vs quant?)

2) Research Hypothesis
(assoc vs mean dif?)

3) Design
(BG vs WG)

2 qual vars	2 quant vars	3+ quant vars	1 qual var & 1 quant var
↓	↓	↓	↓
X^2	RH: ?	RH: ?	ANOVA
↓	↓	↓	↓
2x2 X^2 2xk X^2	Assoc ?	Best predictor ?	Design ?
	↓	↓	↓
	corr	Set of corrs	BG ?
			↓
	Mean diff ?	Mean diff ?	2BG F kBG F
	↓	↓	
	2WG F	kWG F	WG ?
			↓
			2WG F kWG F