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| R | I | G | O | R |
| Journal Peer Reviewed & Good Quality | \*Published Recently | Title indicates subpopulation /species; Not misleading | PI Established in Field and/at Good School | Introduction Convincing / Good Citations |
| Purpose / Hypothesis Obvious & Understandable | Techniques / Machines Adequate to Collect Good Data | What is Measured Actually Answers Research Question | Individual Experiments are Well-Designed and link to tell good story | Model/Organism Used Is Effective for Answering Question |
| Adequate Number of Subjects / Trials | Good Controls Against Extraneous Variables | **FREE!** | Positive and Negative Controls Present | Followed “Observe, Knock it Out, Add it Back” Progression |
| Test(s) for Significance is Used | Data is Summarized and Presented using Field-Accepted Methods | Descriptions of Figures Match the Figures | Figures Clear, Uncluttered & Well-labelled. Best-Fit Lines or Similar are Convincing | Anomalies in Figures are Addressed |
| Variability in Results and Errors is Observed | Conclusions Well-Supported by Results | Generalizability of Results is Discussed | Clear Discussion of Impact on Field | Funding and Assistance Acknowledged |