## **Checklist:** Writing a Research Article

The <b>title</b> emphasizes what is most important about the paper (often the main conclusion but sometimes also the methods used)	The <b>results</b> are described in a logical order that fits into a scientific narrative (and not necessarily the order with which you performed the experiments)
The <b>abstract</b> reads like a mini-version of your paper, complete with statements on the background, scientific question or goal, approach, results, interpretation, and conclusion	Figures and figure legends contain all information necessary to understand the major experiments without a reader having to consult the main text
The <b>abstract</b> contains keywords that other scientists are likely to enter into searchable online databases	The <b>discussion</b> highlights the contributions of your experiments to your field and analyzes results that readers are likely to find most puzzling or interesting
The <b>introduction</b> allows a reader to understand the relevant work that preceded your paper, your scientific	The <b>discussion</b> does not read like a recapitulation of your results section
question or goal, your approach to achieving your goal and a brief summary of your main findings	The <b>discussion</b> contains a final conclusive paragraph or statement that serves as a final "take-home" message
The <b>introduction</b> does not contain any information that is irrelevant to the rest of the paper	for your readers  The <b>references</b> you cite are the most
The <b>abstract</b> and <b>introduction</b> clearly state why your research is important and novel	appropriate for describing previous studies in the field, usually primary research articles instead of reviews
The <b>methods</b> section is detailed enough to allow another scientist in your field to	The <b>references</b> cite multiple authors within your field and investigators likely to be asked to review your submission
duplicate your experiments with exactly the same reagents, equipment, computer software, and strains of model organisms	The manuscript follows all directions specified by the journal to which you are submitting
Each experiment described in the results section contains its own rationale, statement of methods, result, and conclusion	The manuscript is completely free of errors, typos, and grammatical mistakes
	You have solicited and received feedback from multiple colleagues on both content and style