**Protocols article template**

*GENERAL INFORMATION*

*MethodsX welcomes the submission of Protocol articles. Protocols in the life sciences and health and medical sciences include clinical protocols and drug trial protocols. All protocols for randomised clinical trials must be registered and ethical approval for the study must have been granted prior to submission to the journal.*

*[Please fill in the template below and delete all instruction text above and below before submitting. If submitting as a companion paper to a research article, zip all files relevant to the MethodsX submission into a single .zip file and upload as a “Protocol” item.]*

**Title:***[Max. 20 words.**A good title should contain the fewest possible words that adequately describe the content of a paper.]*

**Authors:**

**Affiliations:**

**Contact email:** *[Include institutional email address of the corresponding author]*

**Abstract:** *[Max. 200 words. Remember that the abstract is what readers see first in electronic abstracting & indexing services. This is the advertisement of your article. Make it interesting, and easy to be understood. Be accurate and specific, keep it as brief as possible]*

**Keywords:** *[At least 3 keywords. There is no limit on the no. of keywords you can list. Please remember that effective keywords should not repeat words appearing in your title, and should be neither too general nor too narrow.]*

**Specifications Table** *[please fill in right-hand column of the table below]*

|  |  |
| --- | --- |
| Subject area | *Select one of the following subject areas:*   * *Agricultural and Biological Sciences* * *Biochemistry, Genetics and Molecular Biology* * *Immunology and Microbiology* * *Medicine and Dentistry* * *Neuroscience* * *Pharmacology, Toxicology and Pharmaceutical Science* * *Psychology* * *Veterinary Science and Veterinary Medicine* |
| More specific subject area | *Describe narrower subject area* |
| Protocol name | *Please specify a name of the protocol that you developed.* |
| Reagents/tools | *If applicable, include a list of reagents and equipment with manufacturers’ details* |
| Experimental design | *Very brief experimental description* |
| Trial registration | *If applicable, include clinical trial registry and number* |
| Ethics | *If applicable, include ethical details: Patient informed consent obtained/ Ethics Review Board-competent authority approval obtained/animal experimentation guidelines followed etc* |

**Value of the Protocol** *[Describe in up to 3 bulleted points the importance of the protocol to the scientific community.]*

**Description of protocol:** *[Please include a clear rationale for the study. Background information should be very concise when compared to regular article background/introduction - 2 to 3 sentences maximum. Include a step by step description of the protocol. Describe the experimental design, reagents/tools, data measurement and analysis, study guideline such as FDA guidelines, human subject guidelines. There is no word limit for this article type. Results and Discussion are not sections included in the MethodsX format, however providing data that validate the protocol is valuable and required.]*

**References:** *[Include references of related methods and references to research articles using the protocol developed.]*