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Reporting an Experimental Protocol

Describing Experimental Protocols in the Semantic Web

* Required

Do you consider "Tittle and Author Names" necessary for the description of an experimental protocol? *

Tittle of the protocol. Author names of those authoring the protocol, creating the protocol

- ◯ Yes
- ◯ No

Do you consider "Purpose" necessary for the description of an experimental protocol? *

The "purpose" of the protocol should enable readers to make a decision as to the suitability of the protocol for a given experimental problem. Example: “Development of a method to isolate small RNAs from different plant species (…) with no need for initial total RNA extraction and is not based on commercially available TRIzol® Reagent or columns.” (Flor de Fátima Rosas-Cárdenas, 2011)

- ◯ Yes
- ◯ No

Do you consider "Provenance of the protocol" necessary for the description of an experimental protocol? *

The provenance of the protocol includes references to key papers where the protocol has been previously used. Indicate if your protocol is the result of modifying a previous one or, if it is the result of reusing steps of several protocols. Example: “The extraction procedure precisely followed that of Lisec et al. (2006), which was developed from the protocol of Fiehn et al. (2000a).” (Allwood J. W., 2009)

- ◯ Yes
- ◯ No

Do you consider "Applications of the protocol" necessary for the description of an experimental protocol? *

If you think that the protocol could be adapted for use in a wider range of applications, you should discuss the full diversity of the applications of the method. Example: “northern blot assays using cactus, agave, banana, tomato, Arabidopsis and tobacco.” (Flor de Fátima Rosas-Cárdenas, 2011)

- ◯ Yes
- ◯ No

Do you consider "Comparison with other protocols" necessary for the description of an experimental protocol? *

Where applicable, reference should be made to alternative methods that are commonly used to achieve the same result. The advantages and disadvantages of your protocol compared to other alternatives should be discussed. Example: “We describe a fast, efficient and economic in-house protocol for plasmid preparation using glass syringe filters. Plasmid yield and quality as determined by enzyme digestion and transfection efficiency were equivalent to the expensive commercial kits. Importantly, the time required for purification was much less than that required using a commercial kit.” (Kim Y-C., 2009)

- ◯ Yes
- ◯ No

Do you consider "Limitations" necessary for the description of an experimental protocol? *

The possible limitations of the protocol should be discussed. It should be made clear in which situations the Protocol has been successfully employed, in which situations it is reasonable to expect the Protocol to function and in which situations the Protocol would be unreliable or otherwise unsuccessful. Example: “A major problem faced both in this and other safflower transformation studies is the hyperhydration of transgenic shoots which result in the loss of a large proportion of transgenic shoots.” (Belide Srinivas., 2011)

- ◯ Yes
- ◯ No

Do you consider "Sample" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the sample *

Please bear in mind the purpose is to report an experimental protocol in order to facilitate reproducibility

- ☐ Strain or line
- ☐ Developmental stage
- ☐ Organism part (tissue)
- ☐ Other:

Do you consider "Laboratory consumables or supplies" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Laboratory consumables or supplies" *

- ☐ Laboratory consumable name
- ☐ Manufacturer
- ☐ Laboratory consumable ID (catalog number)
- ☐ Other:

Do you consider "Buffer" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Buffers" *

Consider this as the case for which preparing the Buffer is necessary. Do not consider the case in which the buffer is purchased ready-to-use

- ☐ Buffer name
- ☐ Chemical compound
- ☐ Initial concentration of chemical compound
- ☐ Final concentration of chemical compound
- ☐ Storage conditions
- ☐ Cautions
- ☐ Hints
- ☐ Other:

Do you consider "Solutions" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Solutions" *

Consider this as the case for which preparing the Solutions is necessary. Do not consider the case in which the solution is purchased ready-to-use

- ☐ Solution name
- ☐ Chemical compound
- ☐ Initial concentration of chemical compound
- ☐ Final concentration of chemical compound
- ☐ Storage conditions
- ☐ Cautions
- ☐ Hints
- ☐ Other: _____

Do you consider "Reagents" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Reagents" *

A reagent is a substance used in a chemical reaction to detect, measure, examine, or produce other substances. You should list here all the reagents, buffers and solutions purchased ready-to-use.

- ☐ Reagent name
- ☐ Reagent vendor or manufacturer
- ☐ Reagent ID (catalog number)
- ☐ Other: _____

Do you consider "Kits" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Kits" *

A Kit is a gear consisting of a set of articles or tools for a specified purpose.

- ☐ Kit name
- ☐ Kit vendor or manufacturer
- ☐ Kit ID (catalog number)
- ☐ Other: _____

Do you consider "Primers" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Primers" *

A primer is a synthetic short strand of nucleic acid that serves as a starting point for DNA or RNA synthesis.

- ☐ Primer name

- [ ] Primer sequence
- [ ] Primer vendor or manufacturer
- [ ] Other:

Do you consider "Equipments" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Equipments" *

An equipment is an object used in scientific research for diagnostic, therapeutic and analytical purposes.

- [ ] Equipment name
- [ ] Equipment vendor or manufacturer
- [ ] Equipment ID (catalog number)
- [ ] Other:

Do you consider "Software" to be part of "Materials" section *

- ◯ Yes
- ◯ No

What would you consider to be necessary and sufficient when describing the "Software" *

Software is composed of a series of instructions that can be interpreted by or directly executed by a processing unit.

- [ ] Software name
- [ ] Software version
- [ ] Other:

Do you consider to be necessary include alternatives to performing specific steps *

Where two (or more) alternatives exist, they should be numbered as sets of consecutive steps. For example: choose procedure A (steps 1-10) or procedure B (steps 11-20), then continue to step 21 and so on.

- ◯ Yes
- ◯ No

Do you consider necessary to include "Critical steps" in the protocol *

Critical steps are those steps in the protocol that must be performed in a very precise manner e.g., where the time and temperature of a step is crucial or the use of RNase free solutions is required; thus providing the user with hints to maximize the likelihood of success. Highlight critical steps with the heading 'CRITICAL STEP', followed by a brief explanation.

- ◯ Yes
- ◯ No

Do you consider necessary to include "Pause point" in the protocol *

Any PAUSE POINTS should be indicated with a brief description of the options available. Example: PAUSE POINT: Can be left overnight at 4°C or frozen for up to a month at −20°C.

- ◯ Yes
- ◯ No

Do you consider necessary to include "Timing" in the protocol *

If possible, please include a timeline indicating the approximate time a step, or set of steps, could take, e.g., Steps 1–3, 30 min.; Steps 6 and 7, 2 hours. Provide this information as a summary at the end of the procedure.

- ◯ Yes
- ◯ No

Do you consider necessary to include "Troubleshooting" in the protocol *

If known, please list common problems, possible causes, and solutions / methods of correction.

- ◯ Yes
- ◯ No

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