

International Young Scientists Competition

Instructions for Preparation of Competition Manuscript.

- **Introduction** - Describe the background information used to formulate your question.
- **Experimental Design** – Describe your approach in answering the questions.
- **Materials & Methods** - Describe the materials and reagents needed, instruments and equipment required, and procedures carried out. The protocol of data acquisition, procedures, investigated parameters, methods of measurements and apparatus should be described in sufficient detail to allow reproduction of the results. Name and references to the established methods should be given. The reasons for using them should be provided along with the evaluation of their limitations. The drugs and other chemicals should be precisely identified including generic name, dose and route of administration. The statistical methods should be described in detail to enable verification of the reported results.
- **Timeline** - Show start and end dates for this specific project, as well as for various phases of the experimentation.
- **Results and Interpretation** - Describe the experimental results and how you interpreted them. This should concisely and reasonably summarize the findings. Restrict tables and figures to the number necessary to explain the argument of the experiment and assess its support. The results should be presented in a logical sequence in the text, tables and illustrations. Do not repeat in the text all the data from the tables or graphs. Emphasize only important observations.
 - **Tables.** Do not submit tables as photographs. Number tables consecutively in the order of their first citation in the text, and supply a brief title for each. Give each column a short or abbreviated heading. Place explanatory matter in footnotes, not in the heading. Explain in footnotes all nonstandard abbreviations that are used in each table. For footnotes use the following symbols, in this sequence: *, **, etc. Identify statistical measures of variations such as standard deviation and standard error of the mean. Do not use internal horizontal and vertical rules. Be sure that each table is cited in the text. If you use data from another published or unpublished source, obtain permission and acknowledge them fully.
 - **Figures** should be professionally drawn and photographed; each figure should be submitted in separate files. Acceptable file formats: [.jpg], [.gif], [.tif]. Each figure should have a label indicating the number of the figure and the title. Figures should be numbered consecutively according to the order in which they have been first cited in the text. If a figure has been published, acknowledge the original source and submit written permission from the copyright holder to reproduce the material. Permission is required irrespective of authorship or publisher, except for documents in the public domain.
 - **Photographs** should be color or black & white in the following file formats: [.jpg], [.gif], [.tif]. Files should be named with the number of a

International Young Scientists Competition

photograph and the title.

Photomicrographs should have internal scale markers. Symbols, arrows, or letters used in photomicrographs should contrast with the background. If photographs of people are used, either the subjects must not be identifiable or their pictures must be accompanied by written permission to use the photograph.

- **Legends for Illustrations.** Type or print out legends for illustrations using double-spacing, starting on a separate page, with Arabic numerals corresponding to the illustrations. When symbols, arrows, numbers, or letters are used to identify parts of the illustrations, identify and explain each one clearly in the legend. Explain the internal scale and identify the method of staining in photographs.
- **Units of Measurement.** Measurements of length, height, weight, and volume should be reported in metric units (meter, kilogram, or liter) or their decimal multiples. Temperatures should be given in degrees Celsius. Blood pressures should be given in millimeters of mercury. All hematological and clinical chemistry measurements should be reported in the metric system in terms of the International System of Units (SI). Alternative or non-SI units should be added in parenthesis.
- **Abbreviations and Symbols.** Use only standard abbreviations. Avoid abbreviations in the title and abstract. The full term for which an abbreviation stands should precede its first use in the text unless it is a standard unit of measurement.
- **Discussion** - Did the results answer the questions? How does your data fit into existing data-does it advance the field? This should deal only with new and/or important aspects of the study. Do not repeat in detail data or other material from the Introduction or the Results section. Is there a relevant application of knowledge gained? Does your project have any practical application? Include the implications of the findings and their limitations, including implications for future research. The discussion should confront the results of other investigations especially those quoted in the text.
- **Conclusions** – These should be linked with the goals of the study. State new hypotheses when warranted. Include recommendations when appropriate. Unqualified statements and conclusions not completely supported by the obtained data should be avoided.
- **References** (Note: References do not count toward page limitations.) - References should not be general internet references, but should be from peer-reviewed scientific journals.
 - Must be numbered consecutively as they are cited. References selected for publication should be chosen for their importance, accessibility, and for the further reading opportunities they provide. List all authors when there are six or fewer; when there are seven or more, list the first three, then et al. The following are sample references:

International Young Scientists Competition

- *Standard journal article:*
Lahita R, Kluger J, Drayer DE, Koffler D, Reidenberg MM. Antibodies to nuclear antigens in patients treated with procainamide or acetylprocainamide. *N Engl J Med* 1979;301:1382-5.
 - *Article in electronic form:*
Drayer DE, Koffler D. Factors in the emergence of infectious diseases. *Emerg Infect Dis* [serial online] 1995 Jan-Mar [cited 1996 Jun 5];1(1):[24 screens]. Available from:
URL:<http://www.cdc.gov/ncidod/EID/eid.htm>
 - *Article, no author given:*
Cancer in South Africa [editorial]. *S Afr Med J* 1994;84:15.
 - *Book, personal author(s):*
Ringsven MK, Bond D. Gerontology and leadership skills for nurses. 2nd ed. Albany (NY): Delmar Publishers; 1996.
 - *Book, editor(s) as author:*
Norman IJ, Redfern SJ, editors. Mental health care for elderly people. New York: Churchill Livingstone; 1996.
 - *Chapter in a book:*
Phillips SJ, Whisnant JP. Hypertension and stroke. In: Laragh JH, Brenner BM, editors. Hypertension: pathophysiology, diagnosis, and management. 2nd ed. New York: Raven Press; 1995. p. 465-78.
 - *Conference paper:*
Bengtsson S, Solheim BG. Enforcement of data protection, privacy and security in medical informatics. In: Lun KC, Degoulet P, Piemme TE, Rienhoff O, editors. MEDINFO 92. Proceedings of the 7th World Congress on Medical Informatics; 1992 Sep 6-10; Geneva, Switzerland.
- Avoid using abstracts or review papers as references. Unpublished observations and personal communications can not be used as references. If essential, such material may be incorporated in the appropriate place in the text.
- Laboratory Notebook (must be on hand if called for to verify the submitted report). A copy may be made for submission. All pages must be included and must be numbered, consecutively. All entries should be written in ink, with errors crossed out, dated and initialed.