CRRBC Abstract Guideline

- No other language than English is accepted, and the Short Abstract and full papers include following sections: Introduction, Materials and Methods, Results and Conclusions. Please submit your manuscripts to crl@hcmiu.edu.vn (and Cc. to nvthuan@hcmiu.edu.vn).
- *Paper Size:* Select the custom size of A4 paper: 21 x 29.7 cm. Only this paper size can be accepted.
- *Margins:* Leave 2.5 cm margin at the top, 4 cm at the bottom, 1.9 cm on the inside and 1.4 cm at the outside side of the page.

Short Abstract: (400-500 words in length).

Sample abstract:

ESTABLISH MESC LINES USING LONG-TERM PRESERVED MOUSE SPERM AT REFRIGERATOR TEMPERATURE (Title in capitalize letters with font size 14)

Authors name (with fond size 10)
Author information (with fond size 10 and in italic)
Contact Email: (Bold with fond size 10)

INTRODUCTION: Although mammalian spermatozoa could be preserved in liquid nitrogen (LN_2) stably, it requires constant supplementation of LN_2 and also some safety issues involved in transportation. Moreover, this method may not be accessible in some developing countries. To date, some novel methods of sperm preservation without freezing were developed. We have already reported that healthy pups could be obtained using long-term preserved mouse sperm within 4 degree *via* ICSI. However, how to improve the quality of preserved sperm and extend efficiency of preservation is still need to resolve. **MATERIAL AND METHODS:** As same as our previous report, mouse spermatozoa were cultured in K+-rich nuclear isolation medium (NIM), with or without 10% BSA or 15% Ficoll as a cryoprotectant, and preserved in a refrigerator for up to 1 year. For preserve spermatozoa at room temperature (RT), the samples were preserved using "DNAgard Tissue and Cell" solution. These preserved sperm were selected firstly, then injected into fresh oocytes and cultured to the blastocyst stage *in vitro* or transferred at 2-cell stage into recipient females. Expanded blastocysts were used to establish mESc line. **RESULTS:** After two-day preservation, the phenotypes of spermatozoa tail were divided into three types (type I: extension; type II: crispation; type III: hail pin). Oocytes injected with each spermatozoa type showed no significantly blastocyst rates (74% and 77%) and offspring rate (42% and 53.8%). However, when spermatozoa were preserved for 6 months, embryonic development using type II spermatozoa showed significantly high compared to other types. Moreover, Type II sperm could support normal embryonic development after one year preservation. From these blastocysts, 4 mESc lines were established. These lines were proved to have normal chromosome by SKY assay and germline transmission ability by generation chimeric mice. On the other hand, the spermatozoa sample were tried to be preserved in DNAgard Tissue and Cell solution at RT for 1 month. Although the sperm lost the ability to activate oocyte, it could be rescued by $SrCl_2$ artificial activation. Two normal mESc lines were established from 6 blastocysts. Unfortunately, no offspring could be obtained after embryo transfer. **CONCLUSION:** In conclusion, we found a simple method to select high quality sperm after long-term preservation. Using these selected spermatozoa, this is the first time mESc lines could be established. It gives us another choice to rescue the bioresource. Also, long-term preservation of spermatozoa at RT will come true if the storage medium should be improved to optimal condition.

Full Abstract: (The maximum document size for the full Abstract is 2500 words) and following sections: Title, Authors and Affiliation, Abstract, Introduction, Materials and Methods, Results, Discussion, Acknowledgments, and References.

- *Page Layout:* Type the paper in one columns format and should be left and right justified.
- *Fonts:* Times New Roman and single line spacing throughout the paper.
- *Title:* The title should be no longer than two lines. Avoid unusual abbreviations. Center the title (in capitalize letters with 14 point bold). Use font 10 regular for Authors' names and font 10 italic for Author's affiliations (Institution/Department, City, Country). Leave one blank line (10 point) after the title, one blank line (10 point) after the authors' names and affiliations. Leave one blank line (20 point) between author's info and the beginning of the paper.
- *Abstract:* Provide an abstract of the paper (12 point) no longer than 400 words.
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- *Body Text:* Use 12 point regular throughout.
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- *Figures:* Insert figures where appropriate (as close as possible to where they are mentioned in the text). Prefer positioning them at the top or at the bottom of the column. Enumerate them consecutively using Arabic numbers and provide a caption for each figure (e.g. Figure 1., Figure 2.,..). Use font 10 regular for Figure caption and figure legend. Place figure legend beneath figures. Leave one blank line before (5 point) and one after (15 point) the captions.
- *References:* Use Arabic numbers in square brackets to number references in such order as they appear in the text. List them in numerical order or author name as presented under the heading.
- *Acknowledgement:* Format the Acknowledgment and References headlines without numbering.

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