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Early steps of cryopreservation of day one honeybee (*Apis mellifera*) embryos treated with low-frequency sonophoresis

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## ACCEPTED MANUSCRIPT

1 Early steps of cryopreservation of day one honeybee (Apis mellifera) embryos treated 2 with low-frequency sonophoresis 3 Florence Guignot a, \*, Dominique Fortini b, Stéphane Grateau b, Cécile Burette a, Virginie 4 Dreyfus <sup>a</sup>, Carole Moreau-Vauzelle <sup>b</sup>, Pierrick Aupinel <sup>b</sup>, Elisabeth Blesbois <sup>a</sup> 5 6 <sup>a</sup> UMR PRC, INRA 0085, CNRS 7247, Université de Tours, IFCE, F-37380 Nouzilly, France 7 8 <sup>b</sup> UE 1255 APIS, INRA, F-17700 Surgères, France 9 10 \* Corresponding author: 11 INRA, PRC, 37380 Nouzilly, France. 12 Tel.: +33 2 47 42 77 94 13 Fax: +33 2 47 42 77 43 14 E-mail: florence.guignot@inra.fr 15

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