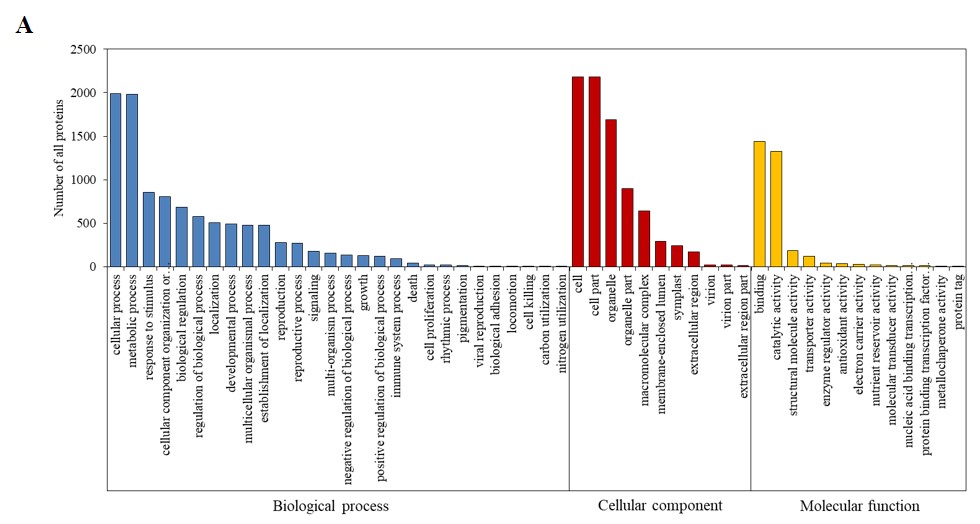
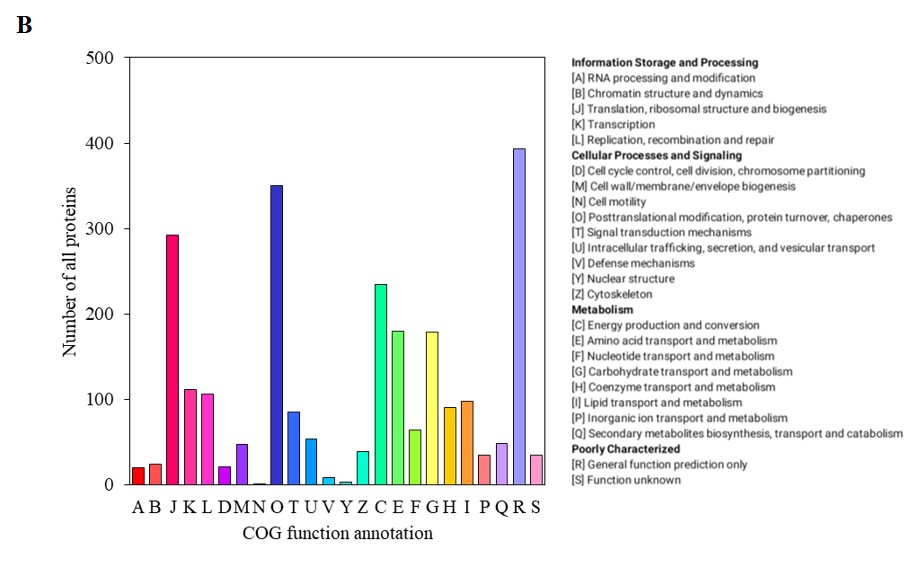
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**Figure S1.** Changes in germination and imbibition of oat seeds. (**A**) A reverse ‘S-shaped’ curve of germination percentage (GP) during aging process. Oat seeds with 10% moisture content in bags (25 g/bag) were incubated in an electric thermostatic cistern at 45°C, and regularly collected at 4 days’ intervals. Afterward, germination test for aged seeds were performed as described in ‘Materials and Methods 4.3.’, and GP was calculated. Finally, the GP curve with aging duration prolonging was plotted. (**B**) Embryo status used to collected samples after imbibition with distilled water for 12 h at 20°C in the dark.





**Figure S2.** Function annotation of the total identified proteins in oat’s embryos under aging and melatonin priming. **(A)** GO annotation. **(B)** COG function annotation.