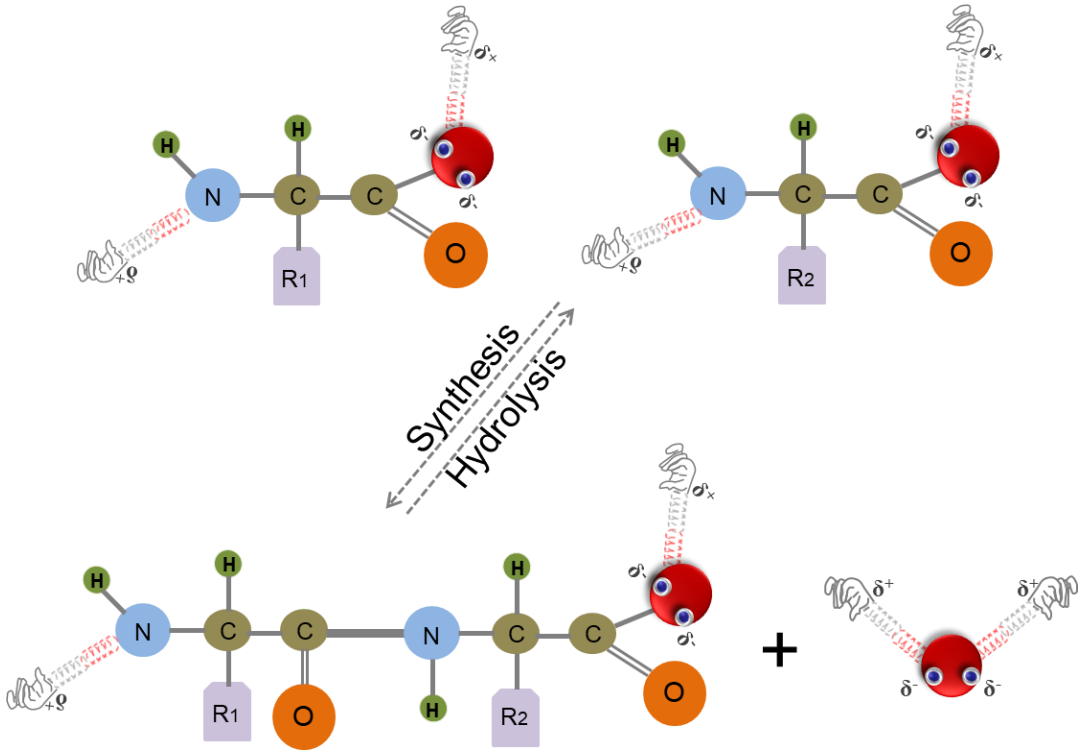
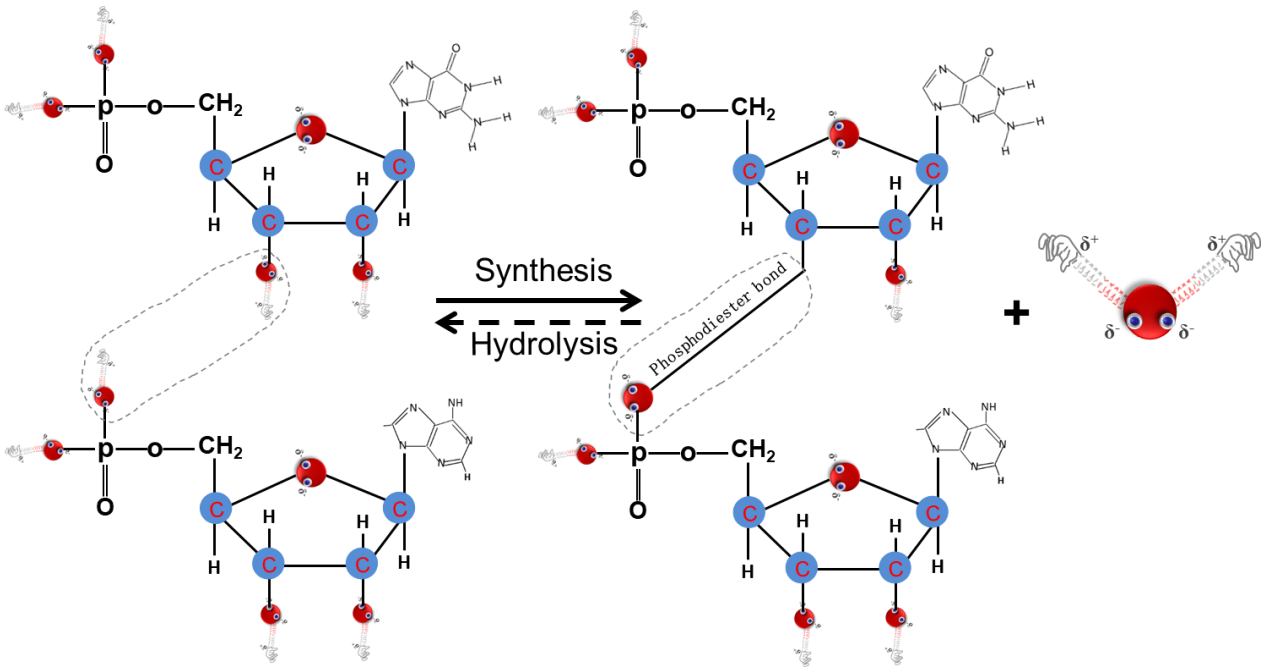
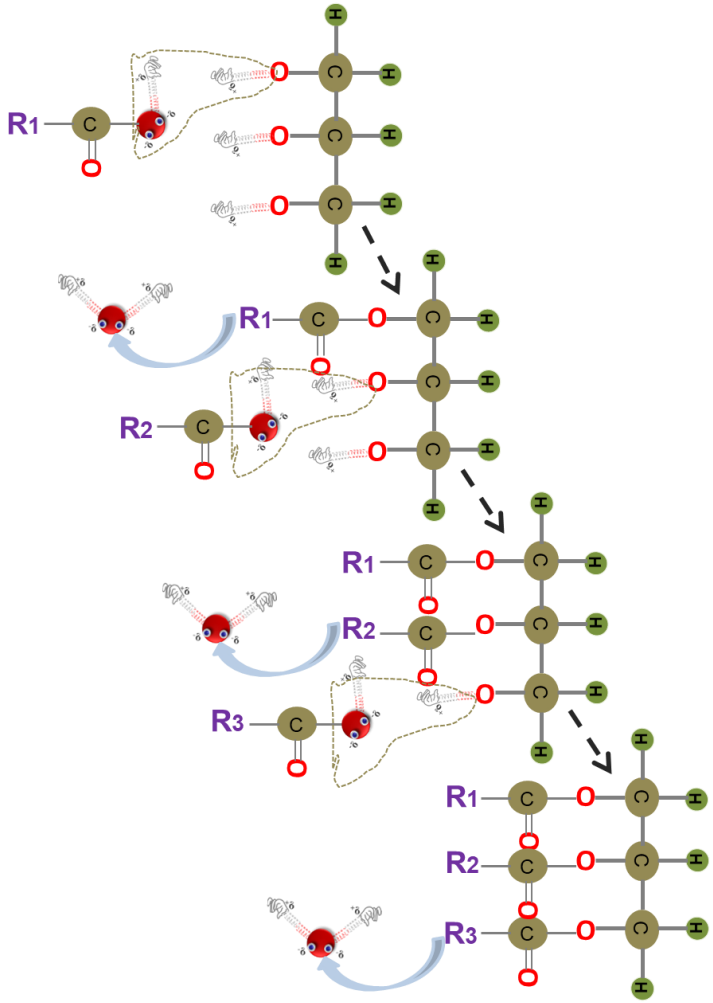


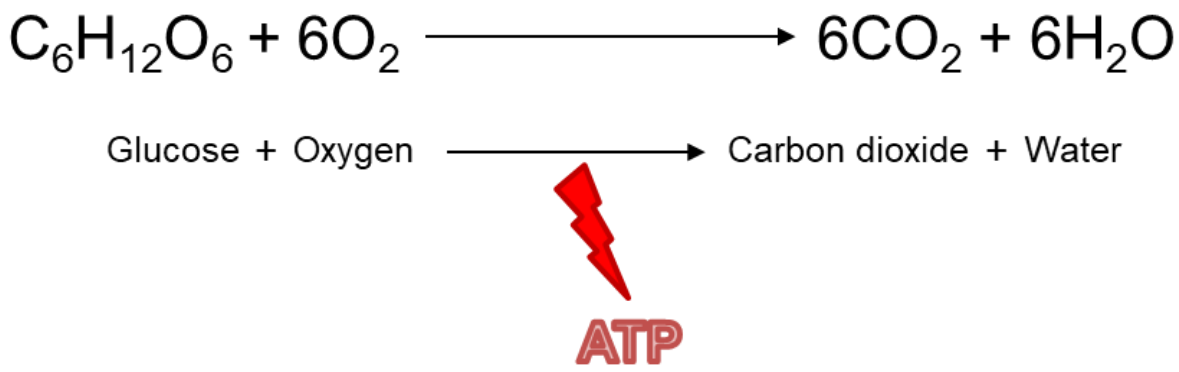
sFig. 1A: The schematic depiction for the production and break of H_2O molecules in the synthesis and hydrolysis of peptides.



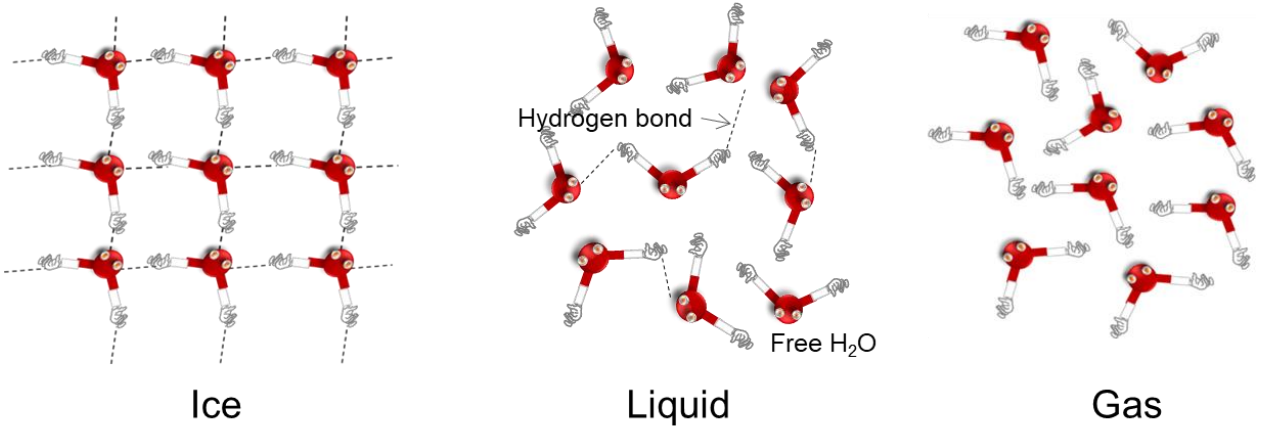
sFig. 1B: The schematic depiction for the production and break of H_2O molecules in the synthesis and hydrolysis of DNA chain.



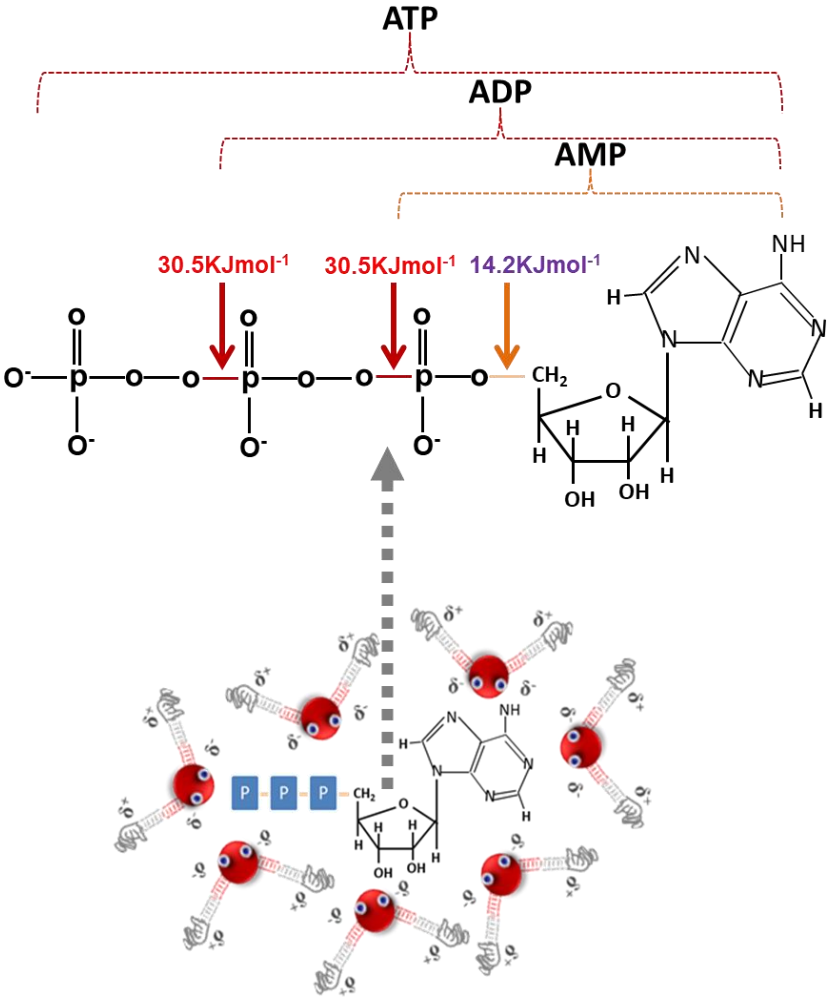
sFig. 1C: The schematic depiction for the production and break of H_2O molecules in the synthesis of glycerin.



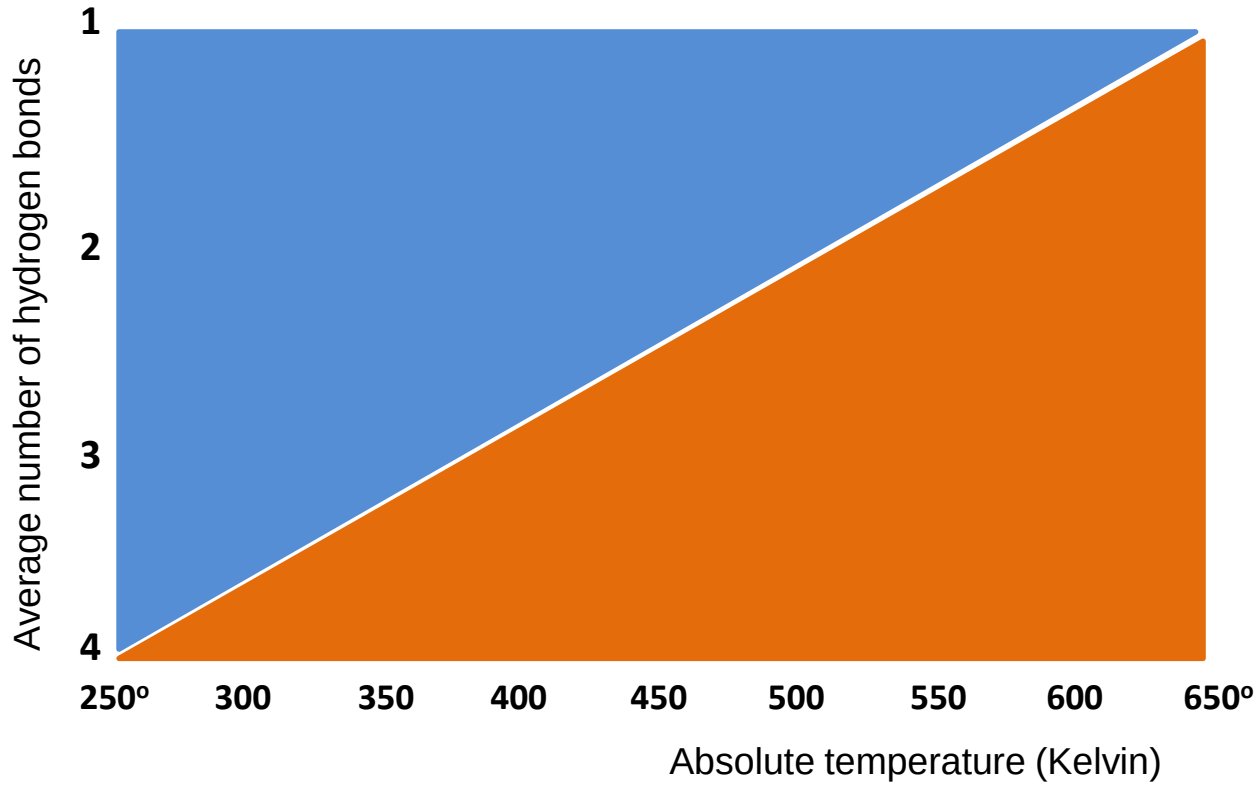
sFig. 2: The schematic depiction for the production and break of H_2O molecules in the metabolism of energy.



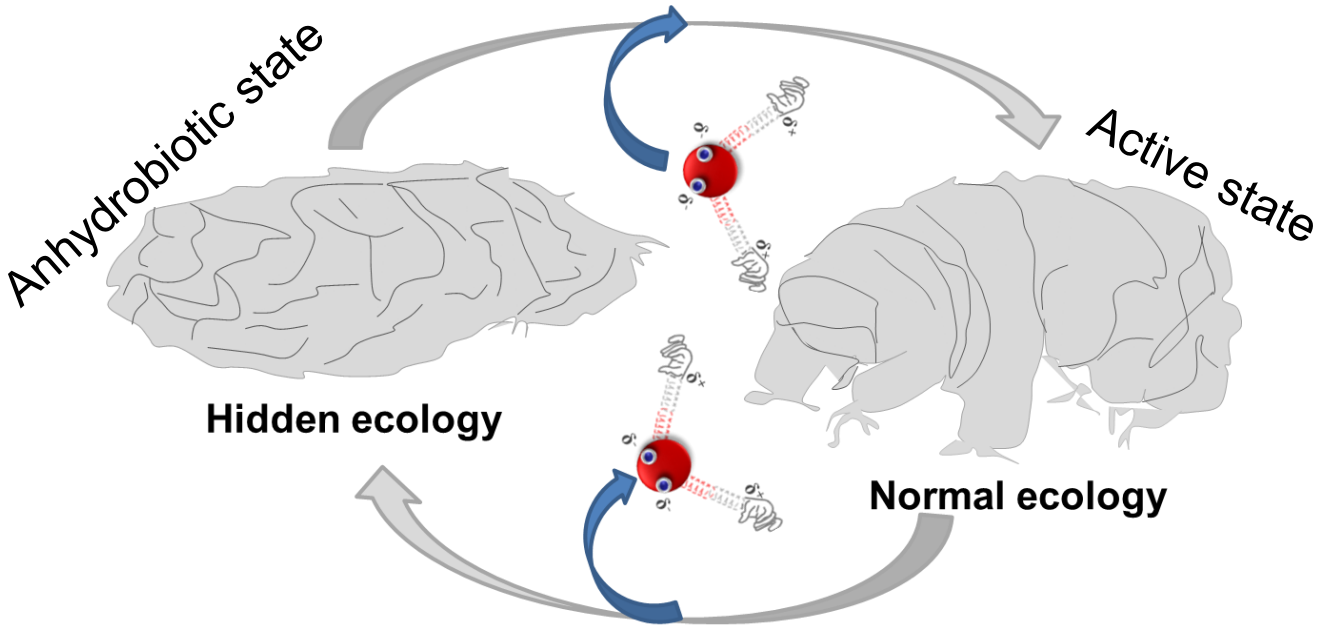
sFig. 3: The schematic depiction for the structures of H_2O molecules in the phases of ice, liquid and gas.



sFig. 4: The schematic depiction for the structures of aqua ATP complex and ATP molecule.



sFig. 5: The relationship between the average number of hydrogen bonds and the temperature in the aqueous solution.



sFig. 6: The schematic depiction for the ecology of Tardigrades in the active and anhydrobiotic states.