water

MDPI

Supporting Information for:

Genotoxicity and Health Risk of Seawater Desalination Based on Reverse Osmosis: A Case Study of Two Seawater Desalination Plants in Zhoushan, China

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Text S1. Literature screening and data extraction methods

To further clarify the safety of seawater desalination in reducing genotoxicity, $m_{finished\ water}$, $m_{raw\ seawater}$, and FC value of the two plants in this study were compared with other drinking water treatment plants (from published data). We used the China National Knowledge Infrastructure (CNKI, https://www.cnki.net) to retrieve publications. Our search terms included [genotoxicity] AND [single-cell gel electrophoresis] AND [drinking water treatment]. Publications were then checked individually to eliminate any duplicates or irrelevant articles. For each article, DNA damage per unit volume of the water sample (including source water and treated water) were selected or extracted from figures using Plot Digitizer software (plotdigitizer.sourceforge.net). The fold change of *m* value ($m_{finished\ water}/m_{raw\ seawater}$) was further calculated according to Materials and Methods 2.4.

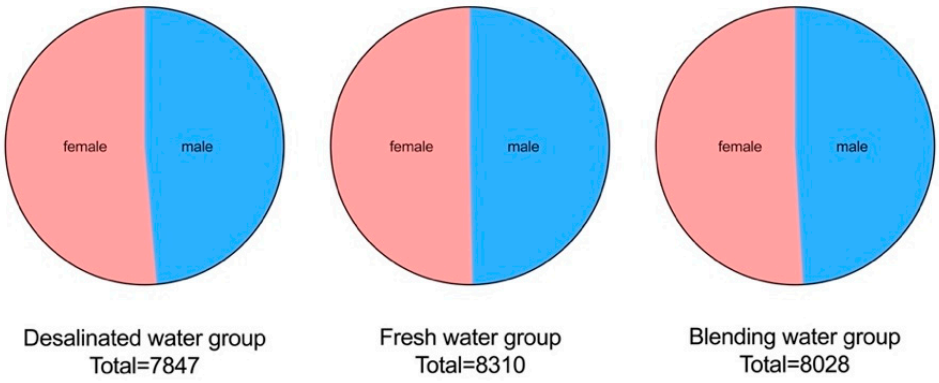


Figure S1. Gender ratio of the three groups surveyed.

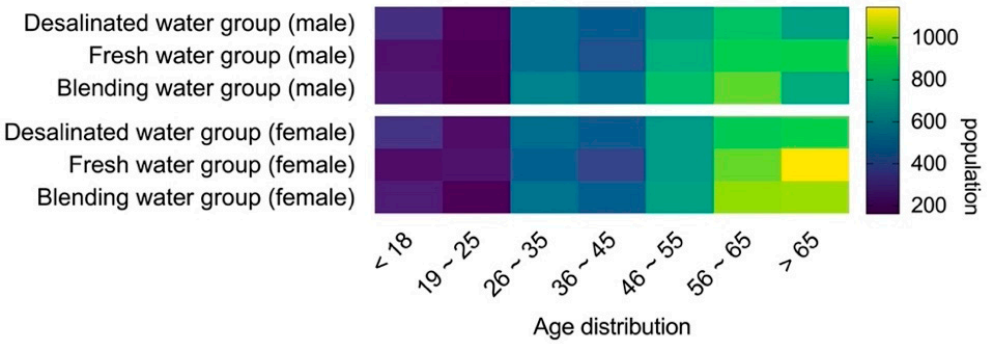


Figure S2. Age distribution of the three groups surveyed.