

## Language evaluation

I am writing to verify that English language in our manuscript was evaluated with Pro Writing Aid (Results below) and is deemed ready for journal submission in its current form.

The screenshot displays the Pro Writing Aid software interface. At the top, there is a teal header bar with 'Menu', 'Reports', and 'Settings' options. Below this is a toolbar with various icons for different writing tools: Purchase, Realtime (with a '218' badge), Summary, Style, Grammar, Thesaurus, Overused, Combo, All Repeats, Echoes, Structure, Length, and More Reports. A dropdown menu is open over the 'Style' icon, showing three items: '0 grammar issues found', '0 style issues found', and '0 spelling issues found'. The main text area shows a manuscript snippet. The first paragraph is partially visible: 'ore. In this study, a meta-analysis was conducted upon the pooled miRNA microarray data from 8 CCA (CCA). We aimed to identify differentially-expressed (DE) miRNAs and perform order to gain insights to understanding miRNA-target interactions involved in of CCA.' The second paragraph is the 'Methods' section: 'Methods: Raw data from 8 CCA miRNA microarray datasets, consisting of 443 samples in total, were integrated and statistically analyzed to identify DE miRNAs via comparison of levels of miRNA expression between CCA and normal bile duct samples using *t*-tests ( $P < 0.001$ ). The 10-fold cross validation was performed in order to increase the robustness of the *t*-test results.' The third paragraph is the 'Results' section: 'Results: Our data showed 70 up-regulated and 48 down-regulated miRNAs in CCA. Gene Ontology and KEGG pathway enrichment analyses revealed that mRNA targets of DE miRNAs were significantly involved in several biological processes. The most prominent dysregulated pathways included PI3K/Akt, MAPK and Ras signaling pathways.' The fourth paragraph is the 'Conclusions' section: 'Conclusions: DE miRNAs found in our meta-analysis revealed dysregulation in major cancer pathways involved in the development of CCA. These results indicated the necessity of understanding the miRNA-target interactions and the significance of dysregulated miRNAs in terms of diagnostics and prognostics of cancers.' The fifth paragraph is the 'Keywords' section: 'Keywords: Cholangiocarcinoma, Microarray, MicroRNA, Meta-analysis'.

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