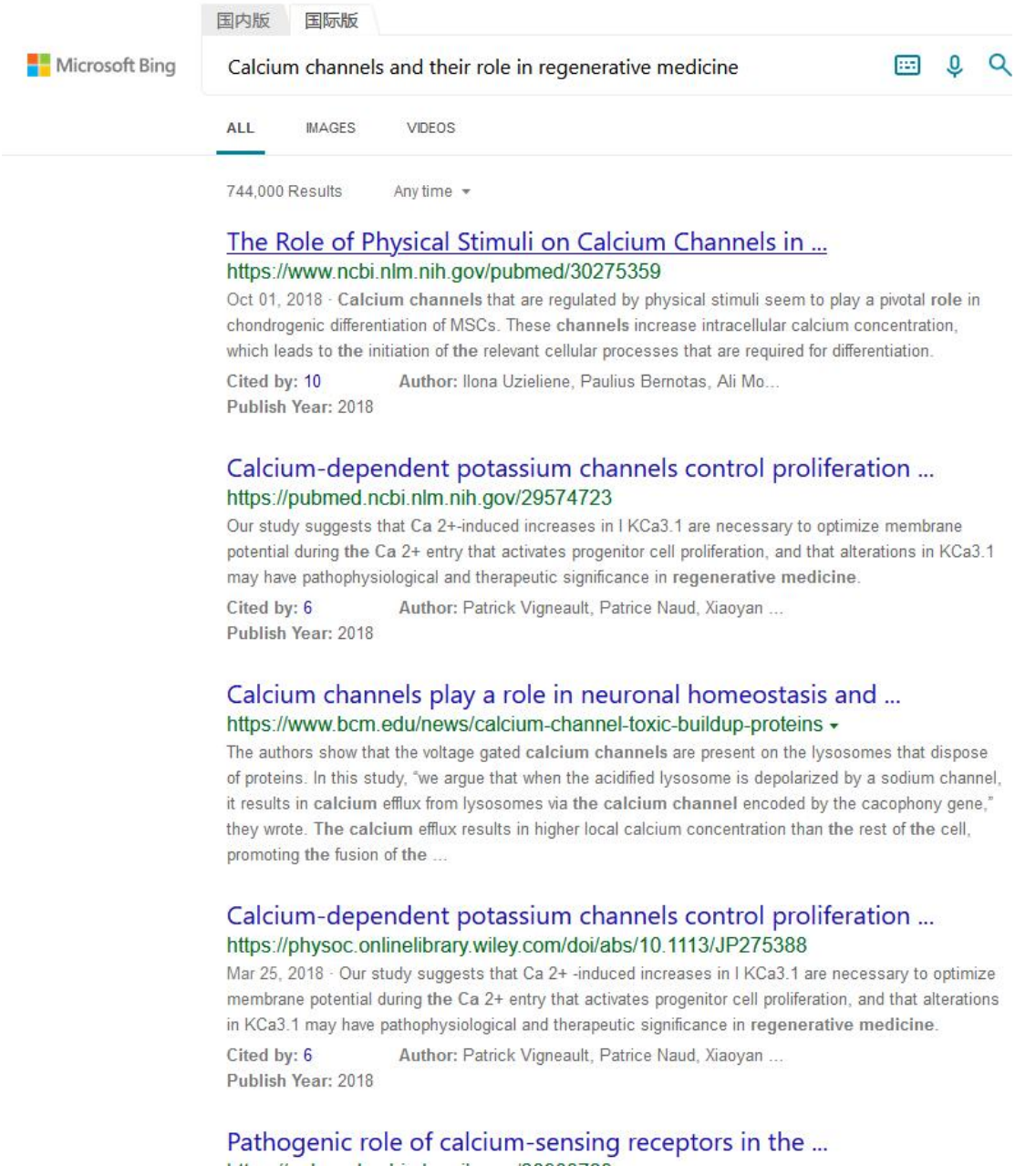
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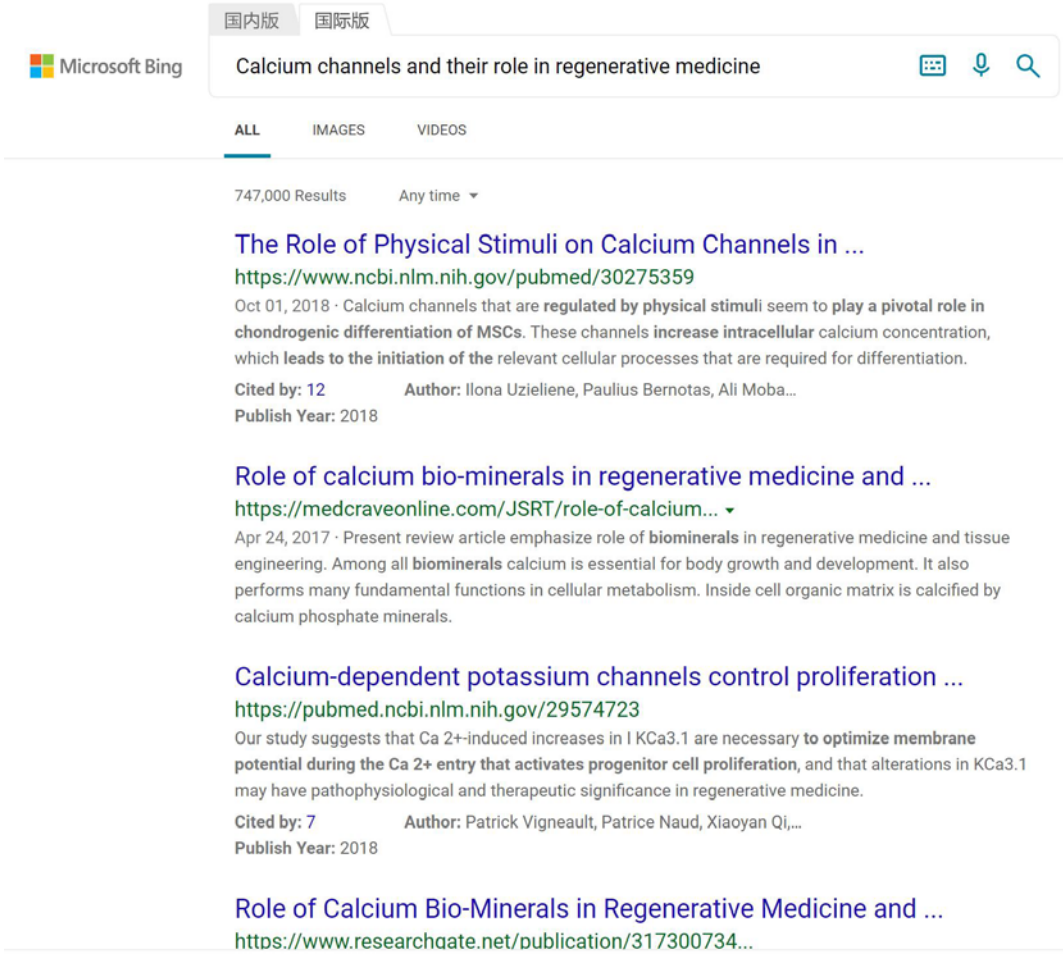
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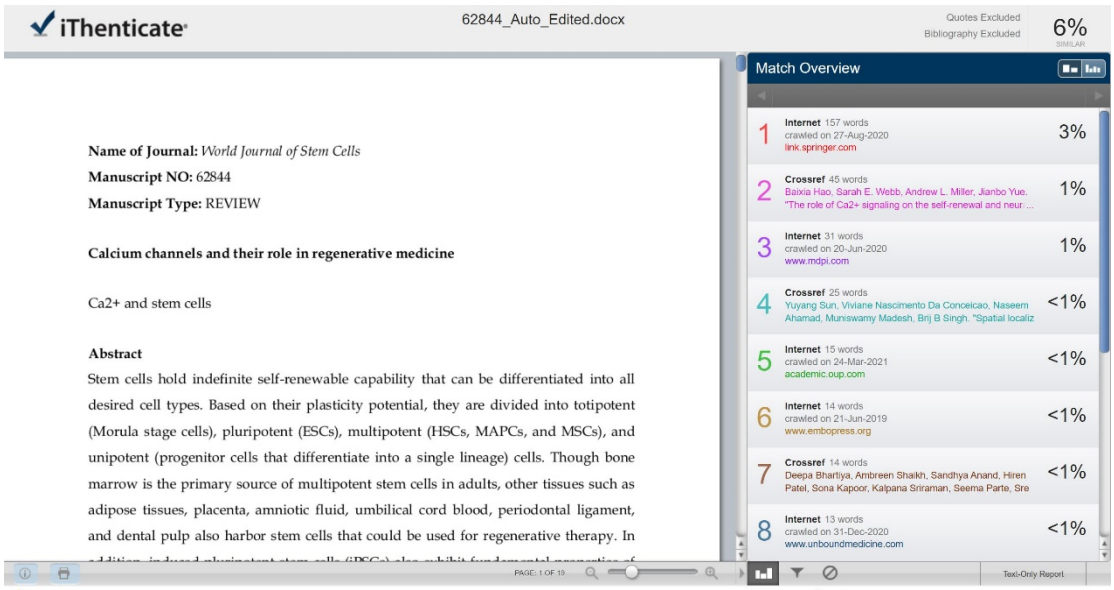

Name of Journal: *World Journal of Stem Cells*
Manuscript NO: 62844
Manuscript Type: REVIEW

Calcium channels and their role in regenerative medicine

Ca2+ and stem cells

Abstract

Stem cells hold indefinite self-renewable capability that can be differentiated into all desired cell types. Based on their plasticity potential, they are divided into totipotent (Morula stage cells), pluripotent (ESCs), multipotent (HSCs, MAPCs, and MSCs), and unipotent (progenitor cells that differentiate into a single lineage) cells. Though bone marrow is the primary source of multipotent stem cells in adults, other tissues such as adipose tissues, placenta, amniotic fluid, umbilical cord blood, periodontal ligament, and dental pulp also harbor stem cells that could be used for regenerative therapy. In addition, induced pluripotent stem cells (iPSCs) also exhibit fundamental properties of

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L-**type voltage gated Ca (2+) channels (LTCCs)** are widely expressed within different brain regions including the hippocampus. The isoforms Cav1.2 and Cav1.3 have been shown to be involved in