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Cytotoxicity, antihypertensive, antidiabetic and antioxidant activities of solid-state fermented lupin, guinoa and wheat by *Bifidobacterium* species: *In-vitro* investigations

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CCEPTED MANUSCRIPT Cytotoxicity, antihypertensive, antidiabetic and antioxidant activities of solid-state fermented lupin, quinoa and wheat by Bifidobacterium species: In-vitro investigations Mutamed Ayyash^{a*}, Stuart K. Johnson^b, Shao-Quan Liu^c, Aysha Al Mheiri^a, Aisha Abushelaibi^d ^a Food Science Department, College of Food and Agriculture, United Arab Emirates University (UAEU), PO Box 1555, Al Ain, UAE ^b School of Molecular and Life Sciences, Curtin Health Innovation Research Institute, Curtin University, Perth, WA, 6845, Australia ^c Food Science and Technology Programme, Department of Chemistry, National University of Singapore, S14 Level 5, Science Drive 2, 117542, Singapore ^d Food Science Discipline, Higher Colleges of Technology, PO Box 41012, Abu Dhabi, UAE *Corresponding author: Dr Mutamed Ayyash Food Science Department College of Food & Agriculture United Arab Emirates University (UAEU) T: +971 3 713 4552 F: +971 3 767 5336 E: mutamed.ayyash@uaeu.ac.ae

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