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The **islamic ethics of mitochondria transplantation** (Article)

Bouzenita, A.I.^a  Mirghani, M.E.S.^{b,c} Jaswir, I.^{b,c} 

^aDepartment of Islamic Sciences, College of Education, Sultan Qaboos University, Oman

^bBioprocess and Molecular Engineering Research Unit, Department of Biotechnology Engineering, Jalan Gombak, Kuala Lumpur, Malaysia

^cInternational Institute for Halal Research, Training International Islamic University Malaysia, Jalan Gombak, Kuala Lumpur, Malaysia

Abstract

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Biotechnology has opened a new chapter with the advent of **mitochondria transplantation** for cell-based therapy. Mitochondrial **transplantation** has successfully led to birth; however, cytoplasmic **transplantation** has caused apprehension since the mixing of human ooplasm from two different maternal sources may generate mitochondrial DNA (mtDNA) heteroplasmy in the offspring. Most **islamic** legal verdicts on human cloning and somatic cell transfer are explicit as to its prohibition, due to the change of creation, mixing of lineage and other evaluations. Is **mitochondria transplantation** equivalent to human cloning in that genetic information is proliferated and does it, therefore, take the same legal rule? Are there possible benefits (maṣālih) for medical treatment that may render **mitochondria transplantation** permissible, or are possible harms (mafasid) outweighing? Or is it a completely different procedure, taking a different rule? The paper will investigate into these questions and discuss the dimensions of **islamic ethics** on the issue.

Author keywords

[Benefits \(maṣālīḥ\)](#) [DNA](#) [Genome](#) [Harms \(mafasid\)](#) [Heteroplasmy](#) [islamic ethics](#) [Mitochondria](#) [Organelle](#)

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