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Background: After transplantation, cell-free deoxyribonucleic acid (DNA) derived from the donor organ (ddcfDNA) can be detected in the recipient's circulation. We aimed to investigate the role of plasma ddcfDNA as **biomarker for acute kidney rejection.**

Cited by: 15 **Author:** Els M Gielis, Kristien J Ledeganck, Améli...
Publish Year: 2020

[PDF] Donor-Derived Cell-Free DNA in Kidney Transplantation ...

https://www.mdpi.com/2077-0383/10/2/193/pdf

of graft function due to immunological or non-immunological factors. Circulating **cell-free DNA (cfDNA)** is degraded deoxyribonucleic acid fragments that are released into the blood and other body fluids. Donor-derived **cell-free DNA (dd-cfDNA)** is **cfDNA** that is exogenous to the patient and comes from a **transplanted** organ.

Author: Adrian Martuszewski, Patrycja Palusz... **Publish Year:** 2021

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Feedback

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Background: After transplantation, cell-free DNA derived from the donor organ (ddcfDNA) can be detected in the recipient's circulation. We aimed to quantify ddcfDNA levels in plasma of kidney transplant recipients thereby investigating the kinetics of this biomarker after transplantation and determining **biological variables** that influence ddcfDNA kinetics in stable and non-stable patients.

Cited by: 20 **Author:** Els M. Gielis, Charlie Beirnaert, Amélie D...

Name of Journal: *World Journal of Experimental Medicine*

Manuscript NO: 66940

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Emerging role of cell free DNA in kidney transplantation

Bhavna Chopra, Kalathil K Sureshkumar

Abstract

Monitoring of kidney transplant for rejection conventionally includes serum creatinine, immunosuppressive drug levels, proteinuria and donor specific antibody (DSA). Serum creatinine is a late marker of allograft injury, and predictive ability of DSA regarding

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Emerging role of cell free DNA in kidney transplantation

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Antibody-mediated rejection (ABMR) is a major cause of kidney transplant failure which requires donor-specific antibodies (DSA) for a definitive diagnosis. Donor-derived cell-free DNA (ddcfDNA) is an emerging biomarker used to **assess kidney allograft injury**.

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