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**Name of Journal:** *World Journal of Transplantation***Manuscript NO:** 61372**Manuscript Type:** REVIEW**Microbiota, renal disease and renal transplantation**

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**Abstract**

Aim of this frontier review has been to highlights the role of microbiota in healthy subjects and in patients affected by renal diseases with particular reference to renal transplantation. The microbiota has a relevant role in conditioning the healthy status and the diseases. In particular gut microbiota is essential in the metabolism of food and has a relevant role for its relationship with the immune system. The indigenous microbiota in patients with chronic

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Research on microbiota in kidney diseases and transplantation hold great promise to expand our understanding of the underlying mechanisms and developing future therapeutic strategies for the management of kidney diseases and transplanted **allografts**.

**Author:** Mohammadreza Ardalan, Sepideh Zununi Vahed

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[Gut microbiota in renal transplant recipients, patients ...

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Methods: We analyzed the composition and function of gut **microbiota** in the fecal samples from 16 **renal transplant** (RT) recipients by deep sequencing of the 16S rRNA V3 variable region. The gut **microbiota** of RT recipients was compared to that of 84 patients with chronic **kidney disease** ...

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