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# New Strategies for the Reduction of Uremic Toxins

Guest Editor:

**Dr. Maria Teresa Rocchetti**
Applied Biology - Department of Clinical and Experimental Medicine, University of Foggia, Viale Pinto 1, 71122 Foggia, Italy

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## Message from the Guest Editor

The accumulation of organic waste products, i.e., so-called uremic toxins, that are normally cleared by the kidneys characterizes chronic kidney disease (CKD). First of all, along with a number of known and unknown toxic metabolites, urea have the potential to dysregulate cellular functions in kidney and other organs when patients suffer from an illness known as uremia. It is increasingly evident that uremic toxins influence nontraditional risk factors, such as inflammation and endothelial dysfunction, contributing to cardiovascular (CV) damage in CKD. Particularly, protein-bound uremic toxins seem to play an increasing role in the incidence of CV disease in CKD, as well as in blood pressure regulation and hypertension. Strategies aimed at lowering uremic toxins are strongly desirable, in order to reach clinical benefit in terms of slowing the progression of CKD and preventing CV disease.

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Charlottesville, VA, USA

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*Toxins* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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toxins@mdpi.com
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