

## MSc projects at Institute of Organic Agriculture

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# Improvement of tomato productivity in Ugandan wetlands using adapted genotypes, grafting technique and manure

**Keywords:** Tomato, Uganda, varieties

Tomato production in Uganda is restricted by biotic constraints including bacterial wilt and tomato blight as well as by insufficient nutrient supply. Tomatoes are sensitive to soil O<sub>2</sub> deficiency, which may limit the production in wetland fringes in particular in rainy seasons. Grafting technique and adequate cultivar choice combined with manuring may help to increase and stabilize crop productivity.

The objective of this work is to test improved varieties bred by AVRDC (grafted and ungrafted) under wetland conditions (fringe area) with respect to yield, quality and disease resistance. A field trial with different tomato varieties will be established at NaCCRI in Namulonge, Uganda. Parameters of crop health and development, fruit yield and quality will be assessed. It is expected to identify tomato lines, which are suitable for use in wetland fringes.



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Work Package	B1
Countries of work	Uganda
1 <sup>st</sup> Supervisor	Dr. Daniel Neuhoff
2 <sup>nd</sup> Supervisor	-
Subject	Horticulture
Faculty	Institute of Organic Agriculture
University	University of Bonn
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