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## **Virus-host metabolic interactions: using metabolomics to probe oxidative stress, inflammation and systemic immunity**

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## Curriculum Vitae

Johannes Cornelius (Nelus) Schoeman was born on November 25, 1987 in Klerksdorp, South Africa. He attended Schoonspruit High school between 2001 to 2005, where in his final year he was chairman of the student council as well as dux student. Subsequently he studied Chemistry and Biochemistry at the North West University (Potchefstroom campus) in South Africa, and obtained his BSc. degree in 2009 (cum laude). He continued his education in the field of biochemistry and obtained his BSc Honours (cum laude) in 2010 and MSc. (cum laude) in 2011 at the same institution. His Masters project was entitled: “A metabolomics approach for characterizing *M. tuberculosis* from sputum”, and was completed under the supervision of Prof Du Toit Loots. During his MSc project he utilised a two dimensional GC-TOFMS platform, to develop and validate an untargeted metabolomics method to characterise patient positive tuberculosis sputum from patient negative sputum. In June of 2012 he started the investigations described in this thesis. This research was performed under the supervision of Prof.Dr. Thomas Hankemeier, Prof.Dr. Ruud Berger and Dr. Rob Vreeken at the department of Analytical Biosciences under the Leiden Academic Centre for Drug Research (LACDR), at Leiden University in Leiden, the Netherlands.

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