Dynamics and regulation of the oxidative stress response upon chemical exposure

Bischoff, L.J.M.

LIST OF PUBLICATIONS

A systematic analysis of Nrf2 pathway activation dynamics during repeated xenobiotic exposure
Luc J. M. Bischoff[‡], Isoude A. Kuijper[‡], Johannes P. Schimming, Liesanne Wolter, Bas ter Braak, Jan P. Langenberg, Daan Noort, Joost B. Beltman, and Bob van de Water.
Arch Toxicol, 2019, 93(2):435-451
[‡] Both authors contributed equally

MicroRNA patterns as biomarkers for chemical exposure and disease
Luc J.M. Bischoff, Jan P. Langenberg, Daan Noort, and Bob van de Water.
Manuscript in preparation.

Screening the microRNA landscape of Nrf2 pathway modulation identifies miR-6499-3p as a novel modulator of the anti-oxidant response through targeting of KEAP1
Luc J.M. Bischoff, Nanette G. Vrijenhoek, Johannes P. Schimming, Anke H.W. Essing, Lukas S. Wijaya, Jan P. Langenberg, Daan Noort, and Bob van de Water
Manuscript in preparation.

A systematic high throughput transcriptomics and phenotypic screening approach to classify the pro-oxidant mode-of-action of a large class of phenolic compounds
Luc J.M. Bischoff[‡], Johannes P. Schimming[‡], Wanda van der Stel, Marije Niemeijer, Sylvia Escher, Giulia Callegaro, Bas ter Braak, Jan P. Langenberg, Daan Noort, and Bob van de Water
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Manuscript in preparation.

CURRICULUM VITAE

Lucas Jacobus Marie (Luc) Bischoff was born on June 4th, 1984 in Boxmeer, the Netherlands.

From 1996 to 2002 he attended the Christian Huygens College in Eindhoven, where he graduated in 2002. In that same year he went to study medical technical nursing at Fontys University of Applied Sciences in Eindhoven. In 2005 however he left to study at the James Boswell institute in Utrecht to obtain certificates at WO level of chemistry, physics, mathematics and biology to be accepted at a Dutch university.

In 2006 he was admitted at the Radboud University in Nijmegen where he studied biomedical sciences with a major in toxicology and a minor in occupational and environmental health.

During his study he did an internship in the Department of Biochemistry, Nijmegen Centre for Molecular Life Sciences, Department of Blood transfusion and Transplantation Immunology of the Radboud University Nijmegen Medical Centre on the topic "Vesicles of circulating cells as potential biomarkers for human disease".

Fascinated by the topic of biomarkers he conducted a literature study in the CBRN Protection department of TNO Defence, Security and Safety in Rijswijk on the topic: "Biomarkers of physiological responses to chemical exposures that occurred during military operations", followed by an internship on the topic "Model development for an immunological, persistent biomarker of chemical exposure".

After receiving his master degree in 2011, he worked as a research scientist at TNO Defence, Security and Safety in Rijswijk, and contributed to projects involving immuno-toxicity, biomarkers, nano-toxicity, *in vitro* cell models, and *in vivo* animal models.

In 2014 he started as a PhD student at the Leiden Academic Center for Drug Research (LACDR) at the Leiden University, on the project "Dynamics and regulation of the oxidative stress response upon chemical exposure", which was sponsored by TNO and the Dutch Ministry of Defence.

In 2018 he worked with great enthusiasm in the department of Systems Biomedicine & Pharmacology of the LACDR, where he worked on a project aimed at finding early biomarkers of Alzheimer's Disease, which included the measurement of microRNAs in blood samples.

Since 2019 he is employed by the Dutch Ministry of Defence as chemical safety advisor.