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The role of the tumor suppressor Lkb1 in energy homeostatis

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Curriculum vitae

Laurie Ana Mans was born on January 9th 1983 in Delft. After finishing her primary education at the Atheneum of Stanislas College in Delft, she continued her study with a bachelor Teacher of fine arts at the Willem de Kooning Art Academy in Rotterdam. The artwork she made during this period was often inspired by the beauty and wonders of nature. After finishing her degree, she taught fine arts for two years at the Grotius College in Delft. The continuing wonderment about nature's complexity and her thirst for more intellectual challenge led her to start a BSc in Biology at the Leiden University. During this bachelor, she focused on cell biology and molecular genetics, and followed the minor Disease signaling and drug targeting at Biopharmaceutical Sciences at Leiden Academic Centre for Drug Research (LACDR). Her BSc internship at the Leids Universitair Medisch Centrum (LUMC), during which she investigated melanoma in an *in vitro* skin model, fueled her interest in oncology. To specialize herself in the field of cancer, she continued with the master of Oncology program at the Vrije Universiteit of Amsterdam. During this master, she performed two internships of which the first was at the Cancer Centre Amsterdam (VUmc/CCA) in the angiogenesis department under supervision of Prof. dr. A.W. Griffioen. There she studied the role of the insulin receptor in tumor angiogenesis, a fruitful period with many interesting discoveries. Her second internship was performed at the Nederlands Kanker Instituut (NKI) in the department of Gene Regulation, where she validated the effects of knock-down of RNA-binding proteins on breast cancer metastasis under supervision of Prof. dr. Reuven Agami. In 2012, she started her PhD at the Institute of Biology of Leiden University under supervision of dr. A-P. G. Haramis. During her PhD. she unraveled the effects of inactivation of the tumor suppressor *Lkb1* on metabolic processes and hematopoiesis, and established the *lkb1* zebrafish larvae as a screening platform to identify metabolic drugs that target *LKB1* tumors. The results of this work are described in this thesis.

Currently, Laurie is working as a researcher and teacher at the Hogeschool Leiden in the department of Medical Biology, where she continues her research in the field of medical biology and transfers her knowledge and enthusiasm to the next generation.

List of publications

Deregulated metabolism in lkb1 mutant zebrafish uncovers susceptibility to metabolic activators for targeted cancer therapy

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Manuscript submitted (combination Chapter 3 and 4)

Oncofetal insulin receptor isoform A marks the tumor endothelium; an underestimated pathway during tumor angiogenesis and angiostatic treatment

Nowak-Sliwinska, P., Van Beijnum, J.R., Huijbers E.J.M., Gasull, P.C., **Mans L.A.**, Bex, A., Griffioen, A.W.

Brit J Cancer, In press, 2018.

The tumor suppressor Lkb1 affects hematopoiesis during zebrafish development

Mans L.A., Bek JW., Koolman, C.K., Welter, C., Haramis, A-P.G.

Developmental and comparative immunology, Manuscript in preparation

Glycerophosphodiesterase GDE2 affects pancreas differentiation in zebrafish

van Veen, M., **Mans L.A.**, Matas-Rico E., van Pelt, J., Perrakis, A., Moolenaar, W.H., Haramis, A-P.G.

The International Journal of Biochemistry & Cell Biology. 2018 Jan Jan;94:71-78.

The tumor suppressor LKB1 regulates starvation-induced autophagy under systemic metabolic stress

Mans L.A., Querol Cano, L., van Pelt, J., Giardoglou, P., Keune, W-J., Haramis, A-P.G.

Nature Scientific Reports. 2017 Aug 4

Burn to cycle: energetics of cell-cycle control and stem cell maintenance.

Mans L.A., Haramis, A-P.G.

Frontiers Bioscience (Landmark Ed). 2014 Jun 1

Functional consequences of prolactin signaling in endothelial cells: a potential link with angiogenesis in pathophysiology?

Reuwer, A.Q., Nowak-Sliwinska, P., **Mans, L.A.**, van der Loos, C.M., von der Thüsen, J.H., Twickler, M.T., Spek, C.A., Goffin, V., Griffioen, A.W., Borensztajn, K.S.

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