



Universiteit
Leiden
The Netherlands

The diverse roles of integrin $\alpha3\beta1$ in cancer: Lessons learned from skin and breast carcinogenesis

Ramovš, V.

Citation

Ramovš, V. (2021, February 18). *The diverse roles of integrin $\alpha3\beta1$ in cancer: Lessons learned from skin and breast carcinogenesis*. Retrieved from <https://hdl.handle.net/1887/3135050>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3135050>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/3135050> holds various files of this Leiden University dissertation.

Author: Ramovš, V.

Title: The diverse roles of integrin $\alpha\beta1$ in cancer: Lessons learned from skin and breast carcinogenesis

Issue date: 2021-02-18

CURRICULUM VITAE

Veronika Ramovš was born on 30th of May 1988 in Ljubljana, Slovenia. She completed her secondary education at the high school *Gimnazija Bežigrad* in 2007 and continued with BSc *Biology* study at *Biotechnical Faculty* at the *University of Ljubljana*. During her BSc study she worked on project *Life+: Life at night*, aiming to improve the conservation status of nocturnal animals by reducing the effect of artificial lighting at cultural heritage sites and she completed a voluntary internship at a *Department of Molecular and Biomedical Sciences* at *Jožef Stefan Institute*, where she worked on investigating the role of secretory phospholipases A2 in breast cancer. During this time, she also completed studies at the *Conservatory of music and ballet Ljubljana*. In 2011, she continued her education at the *Utrecht University*, where she completed MSc *Molecular and Cellular Life Sciences* in 2013 with *cum laude* distinction. During her MSc study she worked on hypoxia-specific nanobodies for breast cancer screening in the research group of Dr. Paul van Bergen en Henegouwen at *Utrecht University* and on the mapping of the genetic diversity and populations structure in wildlife populations of *Dama dama* in the research group of Prof. Dr. AR Hoelzel at *Durham University*. In 2013 she joined the research group of Prof. Dr. Arnoud Sonnenberg at the *Netherlands Cancer Institute* to work as a graduate student on a role of integrin $\alpha 3 \beta 1$ in cancer, resulting in this thesis. Since 2020, Veronika works as a postdoctoral research fellow under the mentorship of Dr. Karine Raymond in the research group of Prof. Dr. Christine Mummery at the *Leiden University Medical Center*.



LIST OF PUBLICATIONS

Ramovs V, Krotenberg Garcia A, Kreft M, Sonnenberg A. Integrin $\alpha 3 \beta 1$ is a key regulator of several pro-tumorigenic pathways during skin carcinogenesis. *J Invest Dermatol*. 2020 Aug 14;S0022-202X(20)31981-3.

Ramovs V, Krotenberg Garcia A, Song JY, de Rink I, Kreft M, Goldschmeding R, Sonnenberg A. Integrin $\alpha 3 \beta 1$ in hair bulge stem cells modulates CCN2 expression and promotes skin tumorigenesis. *Life Sci Alliance*. 2020 May 1 8;3(7):e202000645.

Schipper K, Seinstra D, Paulien Drenth A, van der Burg E, **Ramovs V**, Sonnenberg A, van Rheenen J, Nethe M, Jonkers J. Rebalancing of actomyosin contractility enables mammary tumor formation upon loss of E-cadherin. *Nat Commun*. 2019 Aug 23;10(1):3800.

Ramovs V*, Secades P*, Song JY, Thijssen B, Kreft M, Sonnenberg A. Absence of integrin $\alpha 3 \beta 1$ promotes the progression of HER2-driven breast cancer in vivo. *Breast Cancer Res*. 2019 May 17;21(1):63

Baker K.H, Gray H.W. I, **Ramovs V**, Mertzanidou D, Akin Pekşen Ç, Bilgin C.C, Sykes N, Hoelzel A.R. Strong population structure in a species manipulated by man since the Neolithic: The European fallow deer (*Dama dama dama*). *Heredity* 2017 Jul;119(1):16-26

Ramovs V, Te Molder L, Sonnenberg A. The opposing roles of laminin-binding integrins in cancer. *Matrix Biol*. 2017 Jan;57-58:213-243

Ramovs V, Zidar S, Zagmajster M. Emergence and flight routes of the lesser horseshoe bats *Rhinolophus hipposideros* (Bechstein, 1800) from a church at Ljubljansko barje, central Slovenia. *Natura Sloveniae* 12(2): 35-53.

ACKNOWLEDGMENTS

Many incredible people contributed to this thesis; be it through mentorship, scientific input, interesting discussions and helping hand in the lab, or by supporting me through fun and not-so-fun times, offering friendship, understanding and limitless patience. I am truly grateful to you all.

