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Tumor microenvironment

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2013

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Domanska, U. M. (2013). *Tumor microenvironment: preclinical insights into therapy resistance and targeting strategies*. s.n.

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**Tumor microenvironment:
preclinical insights into therapy resistance and targeting strategies**



- 1 Realization that normal cells substantially contribute to the growth, angiogenesis, metastasis and therapy resistance is a game changer in understanding cancer and opens new possibilities for more successful cancer treatment. *This thesis*
- 2 Treatment with chemotherapy, radiotherapy or VEGF/VEGFR targeting agents upregulates CXCR4 and CXCL12 in several tumor types, stimulating tumor cell survival and enhancing tumor invasiveness and metastatic potential. *This thesis*
- 3 The expression of CXCR4 and CXCL12 in the nuclei of cancer and stromal cells suggests that, besides classical autocrine and paracrine signaling routes, an alternative intracrine CXCR4/CXCL12 signaling is active in cancer. *This thesis*
- 4 The sensitizing action of the CXCR4 inhibitor AMD3100 relies on two mechanisms: local disruption of pro-survival stromal signaling and mobilization of cancer cells to the circulating blood. *This thesis*
- 5 A limited success in translating promising results from the preclinical CXCR4 research in solid tumors reflects the vast complexity of the matter. *This thesis*
- 6 Cancer metastasis and leukocyte trafficking share chemokine-directed migration mechanisms. *This thesis*
- 7 The heterogeneity and plasticity of the tumor microenvironment remain the major challenge in overcoming the therapy resistance in solid tumors. *This thesis*
- 8 In cancer, as in life, understanding the context is the key to understand the consequences. *Mary Helen Barcellos-Hoff, Nature Reviews, 2005*
- 9 It is a good morning exercise for a research scientist to discard a pet hypothesis every day before breakfast. *Konrad Lorenz*
- 10 Every job demands sacrifice. The key is to avoid unnecessary sacrifice. *Sheryl Sandberg, Lean in: women, work and the will to lead. 2013*
- 11 Poland has radically improved its education results in the past ten years, despite having a significant child poverty rate. Rigor is the theme and the driving force behind this success. *Amanda Ripley, The smartest kids in the world and how they got that way, 2013*
- 12 Rise early. One seldom regrets having made an early start, but one always regrets having set off too late. *Gaston Rebuffat, On snow and rock, 1959*
- 13 Practicing research is so much like climbing mountains – it is all about passion, struggle, persistence and good routine. And when you finally made it – the crystal-clear moment crowns the day – and then you realize you are still only half way.