



ALVIDA QVICK was born on January 31st, 1990, and grew up in Tösnahult, Sweden. In 2017, she completed her academic studies in medical biology at Linköping University. Later that year, she enrolled as a PhD student at Örebro University. Alvida began her career at the Department of Laboratory Medicine before transitioning to the Department of Research and Development. Her work has involved both clinical duties and participation in the national Genomic Medicine Sweden collaboration, where she currently coordinates the group focused on circulating biomarkers for solid tumors.

Cancer affects millions of people each year, with many dying prematurely due to delays in diagnosis or missed treatment opportunities caused by insufficient tumor tissue for testing. Circulating biomarkers offer a noninvasive alternative to tissue sampling, as they can be easily obtained from various body fluids. This thesis explores the potential of circulating biomarkers in several aspects of cancer care. It includes three cohorts: patients investigated for lung cancer, patients with severe nonspecific symptoms, and those with oropharyngeal cancer or cancer of unknown primary in the head and neck. Across these cohorts, the clinical applications of circulating biomarkers were evaluated for their diagnostic, predictive, follow-up, and prognostic value. This thesis was defended on the 29th of November 2024 for the degree of doctor in Medical Science with a specialization in Biomedicine.

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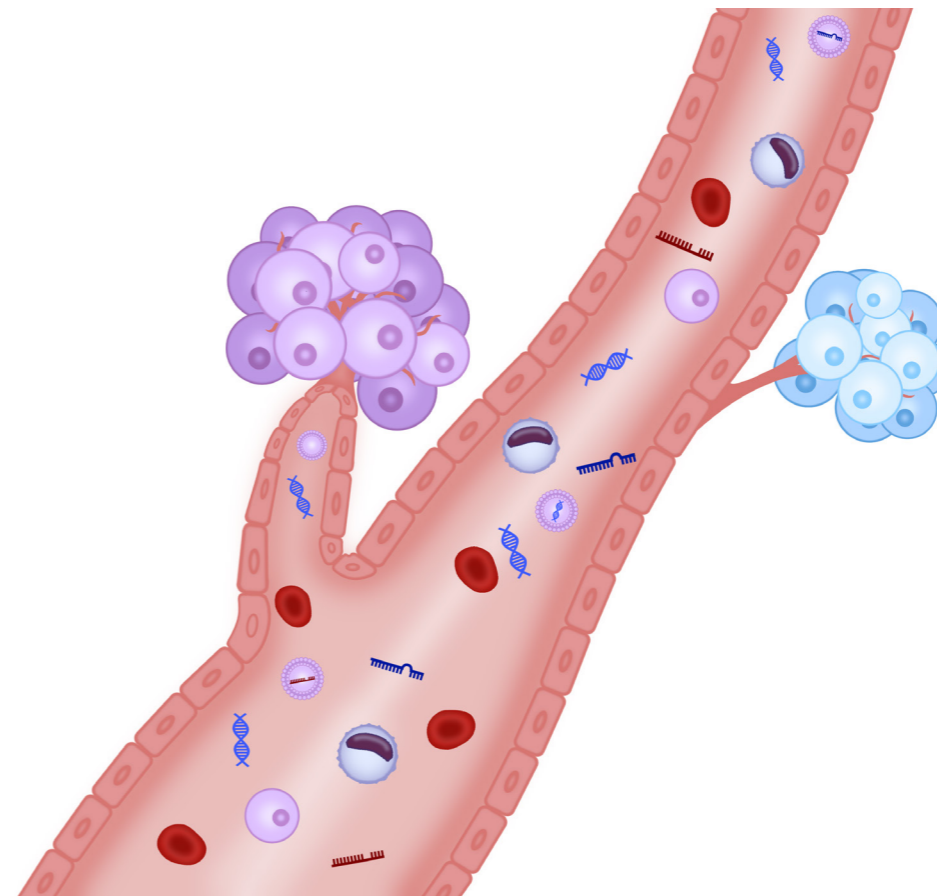
ALVIDA QVICK Achieving Precision Diagnostics for Cancer using Circulating Biomarkers

Doctoral Dissertation

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