LOUISE BOHR MORDHORST is senior consultant at the department of Oncology, Örebro University Hospital, since many years, with specialization in gynecologic oncology. Her main interest during the last decade has been optimization of the brachytherapy in cervical cancer. The brachytherapy unit is a leading center for treatment of cancer (among other, cervical cancer) in Sweden today. Beside research projects, clinical work with cancer patients and teaching of students are important part of the daily activities. She was born in Caracas under the Venezuelan coup d’état February 1958, and received her MD degree at Copenhagen University, Denmark.

Primary combined radiochemotherapy with external pelvic irradiation and brachytherapy is a treatment option for many cases of cervical carcinoma. Primary cure rate, tumor recurrences and survival probability are important outcome variables to study. A number of patient and tumor characteristics are well-known predictive and/or prognostic factors. To further improve treatment new biological markers are needed. In this thesis multiprotein analysis was used to find biomarkers for tumor recurrences. The Hedgehog and Wnt/β-catenin signaling pathways were also analyzed to find possible proteins of importance for tumor eradication, to prevent recurrences and to improve the cancer-specific survival rate.

Doctoral Dissertation

Predictive and prognostic factors in cervical carcinomas treated with (chemo-) radiotherapy

LOUISE BOHR MORDHORST
Medical Science with a specialisation in Surgery