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## **Differentiated thyroid carcinoma : diagnostic and therapeutic studies**

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Proposition

1. The differential diagnosis of follicular thyroid lesions is insufficient, leading to unnecessary surgery. The identification of new immunohistochemical markers may improve the diagnosis, which has important implications for health-care.

*This thesis*

2. The molecular mechanism of decreased iodine uptake in differentiated thyroid carcinoma is complex. The increased intracellular expression of the sodium-iodide symporter in a high proportion of thyroid carcinomas suggests a post-translational mechanism.

*This thesis*

3. The interpretation of thyroglobulin measurements in the follow-up of differentiated thyroid carcinoma is dependant on subjective decisions on acceptable ratios between unnecessary therapies in subjects without disease and missed tumor presence. Receiver Operator Curve analysis is helpful to quantify this ratio and to define institutional Tg cut-off values.

*This thesis*

4. An ultra-short loop of thyroid hormone influencing iodine uptake by the thyroid may be present, which may be of clinical relevance in the light of the introduction of recombinant human TSH. (This thesis).

*This thesis*

5. Lithium salts have no effect on iodine uptake in metastatic thyroid carcinoma and should be avoided.

*This thesis*

6. The differential characteristics of differentiated thyroid carcinoma metastases within one patient with respect to iodine metabolism hampers redifferentiation therapy.

*This thesis*

7. I have no special talents. I am only passionately curious.

*Albert Einstein*

8. The ideals which have lighted my way, and time after time have given me new courage to face life cheerfully. They have been kindness, beauty and truth.

*Albert Einstein*

9. Strong will of every single person to live better pushes a nation forward.

10. The judgment can not simply turn to be truth until scientists prove it to be.