



Universiteit
Leiden
The Netherlands

Differentiated thyroid carcinoma : diagnostic and therapeutic studies

Liu, Y.Y.

Citation

Liu, Y. Y. (2006, November 28). *Differentiated thyroid carcinoma : diagnostic and therapeutic studies*. Retrieved from <https://hdl.handle.net/1887/4993>

Version: Corrected 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/1887/4993>

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

Differentiated Thyroid Carcinoma

Diagnostic and Therapeutic Studies

Ying-ying Liu

Differentiated Thyroid Carcinoma: *Diagnostic and Therapeutic Studies*
Ying-ying Liu

Thesis, Leiden University Medical Center, the Netherlands
The research was financially supported by
KWF KANKER BESTRIJDING (Dutch Cancer Society)
Project number UL 2001-2586

Publication of this thesis was financially supported by: The J.E. Jurriaanse Stichting, Rotterdam; Genzyme Nederland, Naarden; IPSEN farmaceutica BV, Hoofddrop; Janssen-Cilag BV, Tilburg; Pfizer BV, Capelle aan den IJssel; Amgen BV, Breda

ISBN-10: 90-9021232-9
ISBN-13: 978-90-9021232-6

© Copyright 2006, Ying-ying Liu

All rights reserved. No part of this thesis may be reproduced or transmitted in any form, by any means, electronic or mechanical, without prior written permission of the author

Differentiated Thyroid Carcinoma

Diagnostic and Therapeutic Studies

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van de Rector Magnificus Dr.D.D.Breimer,
hoogleraar in de faculteit der Wiskunde en
Natuurwetenschappen en die der Geneeskunde,
volgens besluit van het College voor Promoties
te verdedigen op dinsdag 28 november 2006
klokke 16.15 uur
door

Ying-ying Liu

geboren te Tianjin, China in 1969

Promotiecommissie

Promotores: Prof. dr. J.A. Romijn
Prof. dr. J. Morreau

Copromotor: Dr. J.W.A. Smit

Referent: Prof. dr. A.R.M.M. Hermus
(Radboud University Nijmegen Medical Center)

Overige leden: Prof. dr. J. Kievit
Prof.dr. S.E. Papapoulos
Dr. M. Karperien
Dr. M.P.M. Stokkel

Dedicated to people who love me
&
to my motherland

CONTENTS

Chapter 1	General Introduction	1
Chapter 2	Combined Immunostaining with Galectin-3, Fibronectin-1, CITED-1, HBME-1, Cytokeratin-19, PPAR-gamma and NIS Antibodies Increases the Diagnostic Accuracy in the Differential Diagnosis of Thyroid Neoplasms	31
Chapter 3	Serum Thyroglobulin Concentrations Predict Disease-free Remission and Death in Differentiated Thyroid Carcinoma	49
Chapter 4	The In Vitro Effects of Triiodothyronine on Iodide Uptake in FRTL-5 Cells	65
Chapter 5	Lithium as Adjuvant to Radioiodine Therapy in Differentiated Thyroid Carcinoma, Clinical and In Vitro Studies	77
Chapter 6	Bexarotene Increases Uptake of Radio-iodide in Metastases of Differentiated Thyroid Carcinoma	93
Chapter 7	Radioiodine Therapy after Pre-treatment with Bexarotene for Metastases of Differentiated Thyroid Carcinoma	107
Chapter 8	Summary and Discussion	119
Chapter 9	Samenvatting	131
Epilogue	Acknowledgement	144
	List of Publications	146
	Curriculum Vitae	148
	Color Images	150

