# ***CURRICULUM VITAE***

## ***LESLIE J. DEGROOT, M.D.***

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| Place and Date of Birth | Fort Edward, New York, 1928 |
| 1948 | B.S., Union College, Schenectady, New York |
| 1952 | M.D., Columbia University Medical School, New York City |
| 1952-54 | Intern and Assistant Resident in Medicine, Presbyterial Hospital, New York City |
| 1955 | Clinical Fellow, National Cancer Institute, National Institutes of Health |
| 1956 | Public Health Physician, United States Operational Mission to Afghanistan, Lashkergah, Afghanistan |
| July, 1956 – December, 1956 | Clinical and Research Fellow in Medicine, Massachusetts General Hospital, Boston, MA |
| 1957 | Resident in Medicine, Massachusetts General Hospital, Boston, MA |
| 1958 | Assistant in Medicine, Harvard Medical School; Clinical and Research Fellow in Medicine, Massachusetts General Hospital, Boston, MA |
| 1959 | Instructor in Medicine, Harvard Medical School |
| 1960 | Assistant in Medicine, Massachusetts General Hospital, Boston, MA |
| 1961 – 1965 | Associate Editor, New England Journal of Medicine |
| 1962 | Associate in Medicine, Harvard Medical School |
| 1964 | Assistant Physician, Massachusetts General Hospital, Boston, MA |
| 1966 | Associate Professor of Experimental Medicine, Massachusetts Institute of Technology, Cambridge, MA |
| 1966 | Associate Director, Clinical Research Center, Department of Nutrition and Food Science, Massachusets Institute of Technology |
| 1968 – 1978 | Professor of Medicine, Department of Medicine, The University of Chicago and Head of Thyroid Study Unit, The University of Chicago, Chicago, IL |

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| 1978 – 1987 | Professor of Medicine and Head of Endocrine Section, Department of Medicine, The University of Chicago, Chicago, IL |
| 1987 – 2004 | Professor of Medicine, Department of Medicine, The University of Chicago and Head of Thyroid Study Unit, The University of Chicago, Chicago, IL |
| Jan 2005-Sep 2008 | Professor of Medicine (Research), Department of Medicine, Brown University, Providence RI |
| Sep 2008 | Research Professor, Dept of Cellular and Molecular Biology. University of Rhode Island, Kingston, RI |

## ***MEMBERSHIPS IN SOCIETIES***

The Endocrine Society

The American Thyroid Association

The European Thyroid Association

The American Society for Clinical Investigation

The Association of American Physicians

American Association of Clinical Endocrinologists

## ***PAST (*)AND PRESENT(**) EDITORIAL BOARDS***

The Journal of Clinical Endocrinology and Metabolism*

Endocrinology*

‘ Metabolism, Clinical and Experimental**

Acta Endocrinologica*

The Journal of Clinical Investigation*

## ***HONORS AND DISTINCTIONS***

| | |
|---|---|
| President, The American Thyroid Association -- | 1973 |
| General Clinical Research Center Study Section -- | 1970-73 |
| Executive Council of the Endocrine Society -- | 1989-91 |
| Honorary Fellow, Royal Society of Medicine, Endocrinology Section -- | Indefinite |

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| Plenary Lecturer, European Thyroid Association, Lausanne, Switzerland -- | 1988 |
| Plenary Lecturer, Asia and Oceania Thyroid Association, Seoul, Korea -- | 1989 |
| Jacobaeus Lectureship, Nordisk Insulin Foundation, Copenhagen, Denmark -- | 1989 |
| Visiting Professor, The University of Pisa, Pisa, Italy | 1980 |
| Honorary Member, Japanese Endocrine Society -- | Indefinite |
| Distinguished Service Award, American Thyroid Association -- | 1991 |
| Visiting Professor, University of Rochester -- | 1991 |
| Visiting Bley Stein Professor, The University of California At Los Angeles -- | 1992 |
| Invited speaker, National Institutes of Health Workshop on Autoimmune Thyroid Disease -- | 1993 |
| Invited speaker, Workshop on Thyroid Hormone Resistance, Cambridge University, England -- | 1993 |
| Dodge Lectureship, University of Kansas, Kansas City, Missouri | 1993 |
| Distinguished Research Award, American Thyroid Association -- | 1993 |
| Columbia University Medical Alumni Gold Medal for Outstanding Academic Achievement -- | 1998 |
| Distinguished Educator Award- Endocrine Society | 2003 |
| Gold Key Award for Distinguished Faculty- University of Chicago, Pritzger Medical School | 2004 |

**OTHER ACTIVITES**

Editor, ENDOCRINOLOGY, published by Saunders, now in 5th edition, (1981---).

Board of Directors and Secretary, Lloyd Center for the Environment, South Dartmouth (2001-- )

President, Endocrine Education, Inc, Publisher of WWW.THYROIDMANAGER.ORG.

President of MDTEXT.COM,INC. Publisher of WWW.ENDOTEXT.ORG

Drug safety Monitoring Board, Ilex/Genzyme CAMPATH Study

Board of Directors, ARTWORKSFORYOU, Inc, New Bedford, MA 2008-

**PUBLICATIONS, 2000- PRESENT**

1. Takeda T, Nagasawa T, Miyamoto T, Minemura K, Hashizume K, DeGroot LJ. Quantitative analysis of DNA binding affinity and dimerization properties of wild-type and mutant thyroid hormone receptor β1. Thyroid 10:11-18, 2000.
2. Sawai Y, DeGroot LJ. Binding of human thyrotropin receptor peptides to a Graves' disease-predisposing human leukocyte antigen Class II molecule. J Clin Endocrinol Metab 85:1176-1179, 2000.
3. DeGroot LJ. Endocrinology in the new millennium. Published on the MEDSCAPE Website: www.medscape.com, in January of 2000.
4. Zhang R, DeGroot LJ. Gene therapy of established medullary thyroid carcinoma with Herpes Simplex viral thymidine kinase in a rat tumor model: relationship by bystander effect and antitumor efficacy. Thyroid 10:313-319, 2000.
5. Zhang R, DeGroot LJ. Genetic immunotherapy of established tumors with adenoviral vectors transducing murine interleukin-12 subunits in a rat medullary thyroid carcinoma model. Clin Endocrinol 52:687-694, 2000.
6. Minemura K, Takeda T, Minemura K, Nagasawa T, Zhang R, Leopardi R, DeGroot LJ. Cell-specific induction of sensitivity to ganciclovir in medullary thyroid carcinoma cells by adenovirus-mediated gene transfer of Herpes Simplex virus thymidine kinase. Endocrinology 141:1814-1822, 2000.
7. Kouki T, Sawai Y, Gardine C, Fisfalen M-E, Alegre M-L, DeGroot LJ. CTLA-4 gene polymorphism at position 49 in exon 1 reduces the inhibitory function of CTLA-4 and contributes to the pathogenesis of Graves' disease. J Immunol 165:6606-6611, 2000.
8. DeGroot LJ, Jameson JL. Co-editors of Endocrinology, Fourth Edition, WB Saunders Co, Philadelphia, 2000, 2,621 pages.
9. Clarke BL, DeGroot LJ. Thyroid hormone regulation of islet cell hormone metabolic actions. Chapter 29 in Handbook of Physiology, The Endocrine System, Volume II, edited by Jefferson LS, Cherrington AD. Oxford University Press, New York, NY, 2000.
10. Zhang R, Straus FH, DeGroot LJ. Adenoviral-mediated gene therapy for thyroid carcinoma using thymidine kinase controlled by thyroglobulin promoter demonstrates high specificity and low toxicity. Thyroid, 11:115-123, 2001.
11. Zhang R, DeGroot LJ. An adenoviral vector expressing functional heterogeneous proteins – Herpes Simplex viral thymidine kinase and human Interleukin-2 has enhanced in vivo antitumor activity against medullary thyroid carcinoma. Endocrine-Related Cancer, 8:315-325, 2001.
12. DeGroot LJ, Zhang R. Gene therapy for thyroid cancer—where do we stand? J Clin Endocrinol Metab, 86:2923-2928, 2001.
13. DeGroot LJ. Treatment of multinodular goiter by surgery. J Endocrinol Invest, 24:820-822, 2001.
14. Gardine CA, Kouki T, DeGroot LJ. Characterization of the T lymphocyte subsets and lymphoid populations involved in the induction of low dose oral tolerance to human thyroglobulin. Cellul Immunol, 212:1-15, 2001.
15. DeGroot LJ. Endocrinology 2000-2100: Some thoughts on our future. J Pediat Endocrinol Metab, 14:1387-1392, 2001.

16. Kouki T, Gardine CA, Yanagawa T, DeGroot LJ. Relation of three polymorphisms of the CTLA-4 gene in patients with Graves' disease. J Endocrinol Invest, 25:208-213, 2002.
17. Zhang R, Straus FH, DeGroot LJ. Cell specific viral gene therapy of a Hurthle cell tumor. J Clin Endocrinol Metab, 87:1407-1414, 2002.
18. Yamazaki M, Zhang R, Straus FH, Messina M, Robinson BG, Hashizume K, DeGroot LJ. Effective gene therapy for medullary thyroid carcinoma using recombinant adenovirus inducing tumor-specific expression of Interleukin-12. Gene Therapy, 9:64-74, 2002.
19. Yanagawa T, Kouki T, DeGroot LJ. CTLA-4 gene in the pathogenesis of Graves' disease. Chapter in The Genetics of Complex Thyroid Diseases, Akamizu T, Kasuga M, and Davies TF (eds), Springer-Verlag Tokyo, pp 103-107, 2002.
20. DeGroot LJ. Radioactive iodide therapy for Graves' disease. Chapter 18 in Thyroid Eye Disease: Diagnosis and Treatment. Dutton JJ and Haik BG (eds), Marcel Dekker Inc., New York, pp 171-184, 2002.
21. Takeda T, Yamazaki M, Minemura K, Imai Y, Inaba H, Suzuki S, Miyamoto T, Ichikawa K, Kakizawa T, Mori J-I, DeGroot LJ, Hashizume K. A tandemly repeated thyroglobulin core promoter has potential to enhance efficacy for tissue-specific gene therapy for thyroid carcinomas. Cancer Gene Therapy, 9:864-874, 2002.
22. Medeiros-Neto G, DeGroot LJ. Disorders of thyroid hormone synthesis. Chapter 27 in Genetics in Endocrinology, edited by Baxter J, Melmed S, and New M, Lippincott-Raven Publishers, Philadelphia, 2002.
23. Gardine CA, Gentile F, Pellegrini C, Giallauria F, Torelli G, Kouki T, DeGroot LJ. Multiple fragments of human thyroglobulin are capable of inducing oral tolerance to whole human thyroglobulin. J Endocrinol Invest 26:294-300, 2003.
24. Zhang R, DeGroot LJ. Gene therapy of a rat follicular thyroid carcinoma model with adenoviral vectors transducing murine interleukin-12. Endocrinology 144:1393-1398, 2003.
25. Kon YC, DeGroot LJ. Painful Hashimoto's thyroiditis as an indication for thyroidectomy: clinical characteristics and outcome in seven patients. J Clin Endocrinol Metab, 88:2667-2672, 2003.
26. Takeda, T, Inaba H, Yamazaki M, Kyo S, Miyamoto T, Suzuki S, Ehara T, Kakizawa T, Hara M, DeGroot LJ, Hashizume K. Tumor-specific gene therapy for undifferentiated thyroid carcinoma utilizing the telomerase reverse transcriptase promoter. J Clin Endocrinol Metab 88:3531-3538, 2003.
27. Takara M, Kouki T, DeGroot LJ. CTLA-4 AT-repeat polymorphism reduces the inhibitory function of CTLA-4 in Graves' disease. Thyroid, 13:1083-1089, 2003.
28. DeGroot LJ. Nonthyroidal illness syndrome is functional central hypothyroidism, and if severe, hormone replacement is appropriate in light of present knowledge. J Endocrinol Invest 26:1163-1170, 2003.
29. Yamazaki M, Straus FH, Messina M, Robinson BG, Takeda T, Hashizume K, DeGroot LJ. Adenovirus-mediated tumor-specific combined gene therapy using Herpes simplex virus thymidine/ganciclovir system and murine interleukin-12 induces antitumor activity against medullary thyroid carcinoma. Cancer Gene Therapy, 11:8-15, 2004.
30. DeGroot LJ, Zhang R. Viral mediated gene therapy for the management of metastatic thyroid carcinoma. In: Current Drug Targets, Smallridge RC, editor, Bentham Science Publishers, 2004, pages 235-244.

445. WWW.THYROIDMANAGER.ORG, web-based textbook, Leslie J De Groot, MD, editor, published by ENDOCRINE EDUCATION, INC. South Dartmouth, MA (c/o ldegroot@earthlink.net)

446. WWW.ENDOTEXT.ORG, web-based textbook, Leslie J De Groot, MD, editor, published by MDTEXT.ORG, INC. South Dartmouth, MA (c/o ldegroot@earthlink.net)

447 . De Groot, LJ , Jameson,l Editors ENDOCRINOLOGY ,5th Edition, published by Elsevier, Philadelphia, PA, Aug 2005. Three volumes, 3000 pages.

448 Pacini, F and De Groot LJ Management of Thyroid Nodules and Thyroid Carcinoma in ENDOCRINOLOGY , 5th Edition, Elsevier, Phildadelphisa , PA, August 2005

449 Fisfalen ME, Schulze TG, DePaulo JR Jr, DeGroot LJ, Badner JA, McMahon FJ. Familial variation in episode frequency in bipolar affective disorder.Am J Psychiatry. 2005 Jul;162(7):1266-72.

450.. De Groot, LJ Non-Thyroidal Illness Syndrome is a Manifestation of Hypothalamic-pituitary Dysfunction, and in View of Current Evidence, Should be Treated with Appropriate Replacement Therapies. Crital Care Clinics 22:57-86, 2006.

451. Inaba H, Martin W, De Groot AS, Qin S, De Groot LJ Thyrotropin receptor epitopes and their relation to histocompatibility leukocyte antigen-DR molecules in Graves' disease.J Clin Endocrinol Metab. 2006 Jun;91(6):2286-94.

452. Abalovich M, Amino N, Barbour LA, Cobin RH, De Groot LJ (Chairman), Glinoer D, Mandel SJ, Stagnaro-Green A. Management of thyroid dysfunction during pregnancy and postpartum: an Endocrine Society Clinical Practice Guideline. J Clin Endocrinol Metab. 2007 Aug;92(8 Suppl):S1-47.

453. Leslie J De Groot, MD, Young-Ha Shin, PhD, Deshun Pan, PhD, Geetha Gopalakrishnan, MD, and James Hennessey, MD. Evaluation Of T Cell Stimulation By Tsh-R Epitopes In Graves' Disease In Press J. Endocrine Investigation

454. Deshun Pan, PhD, Young-Ha Shin, PhD, Geetha Gopalakrishnan, MD, James Hennessey, MD, and Leslie J De Groot, MD. Regulatory T Cells in Graves' disease, In review

455. Deshun Pan, PhD, Hidefumi Inaba, MD, Young-Ha Shin, PhD, William Martin, PhD, and Leslie J De Groot, MD Immune Response Of Mice Transgenic For Human HLA-DR To hTSH-R-ECD