

# Roberto Di Lauro

## List of Publications by Year in descending order

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129  
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13,996  
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24978

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docs citations

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times ranked

12494  
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#	ARTICLE	IF	CITATIONS
1	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. <i>Cell</i> , 2007, 129, 1401-1414.	13.5	3,390
2	Thyroid Development and Its Disorders: Genetics and Molecular Mechanisms. <i>Endocrine Reviews</i> , 2004, 25, 722-746.	8.9	552
3	The lung-specific surfactant protein B gene promoter is a target for thyroid transcription factor 1 and hepatocyte nuclear factor 3, indicating common factors for organ-specific gene expression along the foregut axis.. <i>Molecular and Cellular Biology</i> , 1994, 14, 5671-5681.	1.1	501
4	Thyroid nuclear factor 1 (TTF-1) contains a homeodomain and displays a novel DNA binding specificity.. <i>EMBO Journal</i> , 1990, 9, 3631-3639.	3.5	493
5	PAX8 mutations associated with congenital hypothyroidism caused by thyroid dysgenesis. <i>Nature Genetics</i> , 1998, 19, 83-86.	9.4	446
6	A thyroid-specific nuclear protein essential for tissue-specific expression of the thyroglobulin promoter.. <i>EMBO Journal</i> , 1989, 8, 2537-2542.	3.5	338
7	A mouse model for hereditary thyroid dysgenesis and cleft palate. <i>Nature Genetics</i> , 1998, 19, 395-398.	9.4	302
8	Pax-8, a paired domain-containing protein, binds to a sequence overlapping the recognition site of a homeodomain and activates transcription from two thyroid-specific promoters.. <i>Molecular and Cellular Biology</i> , 1992, 12, 4230-4241.	1.1	292
9	Regional expression of the homeobox gene Nkx-2.2 in the developing mammalian forebrain. <i>Neuron</i> , 1992, 8, 241-255.	3.8	290
10	A mouse gene related to Distal-less shows a restricted expression in the developing forebrain. <i>Nature</i> , 1991, 351, 748-751.	13.7	277
11	Dual control for transcription of the galactose operon by cyclic AMP and its receptor protein at two interspersed promoters. <i>Cell</i> , 1977, 12, 847-854.	13.5	265
12	An autoregulatory loop mediated by miR-21 and PDCD4 controls the AP-1 activity in RAS transformation. <i>Oncogene</i> , 2009, 28, 73-84.	2.6	230
13	The Paired-Domain Transcription Factor Pax8 Binds to the Upstream Enhancer of the Rat Sodium/Iodide Symporter Gene and Participates in Both Thyroid-Specific and Cyclic-AMP-Dependent Transcription. <i>Molecular and Cellular Biology</i> , 1999, 19, 2051-2060.	1.1	227
14	TTF-2, a new forkhead protein, shows a temporal expression in the developing thyroid which is consistent with a role in controlling the onset of differentiation. <i>EMBO Journal</i> , 1997, 16, 3185-3197.	3.5	226
15	Nonlinear partial differential equations and applications: Role of the thyroid-stimulating hormone receptor signaling in development and differentiation of the thyroid gland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15462-15467.	3.3	216
16	Pax8 has a key role in thyroid cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13144-13149.	3.3	215
17	Cell-type-specific expression of the rat thyroperoxidase promoter indicates common mechanisms for thyroid-specific gene expression.. <i>Molecular and Cellular Biology</i> , 1992, 12, 576-588.	1.1	208
18	Thyroid-specific gene expression. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994, 1218, 255-266.	2.4	189

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19	A unique combination of transcription factors controls differentiation of thyroid cells. <i>Progress in Molecular Biology and Translational Science</i> , 2000, 66, 307-356.	1.9	184
20	An integrated regulatory network controlling survival and migration in thyroid organogenesis. <i>Developmental Biology</i> , 2004, 276, 464-475.	0.9	161
21	Missense Mutation in the Transcription Factor NKX2-5: A Novel Molecular Event in the Pathogenesis of Thyroid Dysgenesis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 1428-1433.	1.8	157
22	Upregulation of miR-21 by Ras in vivo and its role in tumor growth. <i>Oncogene</i> , 2011, 30, 275-286.	2.6	130
23	The Paired Domain-containing Factor Pax8 and the Homeodomain-containing Factor TTF-1 Directly Interact and Synergistically Activate Transcription. <i>Journal of Biological Chemistry</i> , 2003, 278, 3395-3402.	1.6	123
24	Sequence-specific DNA recognition by the thyroid transcription factor-1 homeodomain. <i>Nucleic Acids Research</i> , 1994, 22, 3075-3083.	6.5	119
25	Replacement of K-Ras with H-Ras supports normal embryonic development despite inducing cardiovascular pathology in adult mice. <i>EMBO Reports</i> , 2005, 6, 432-437.	2.0	117
26	Nucleotide sequence of the attenuator region of the histidine operon of <i>Escherichia coli</i> K-12.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978, 75, 4276-4280.	3.3	113
27	Kras regulatory elements and exon 4A determine mutation specificity in lung cancer. <i>Nature Genetics</i> , 2008, 40, 1240-1244.	9.4	113
28	A Mouse Model Demonstrates a Multigenic Origin of Congenital Hypothyroidism. <i>Endocrinology</i> , 2005, 146, 5038-5047.	1.4	108
29	A cell type specific factor recognizes the rat thyroglobulin promoter. <i>Nucleic Acids Research</i> , 1987, 15, 8149-8166.	6.5	107
30	Multiple mechanisms of interference between transformation and differentiation in thyroid cells.. <i>Molecular and Cellular Biology</i> , 1992, 12, 5793-5800.	1.1	101
31	Redundant Domains Contribute to the Transcriptional Activity of the Thyroid Transcription Factor 1. <i>Journal of Biological Chemistry</i> , 1995, 270, 26649-26656.	1.6	99
32	Ascidian homologs of mammalian thyroid peroxidase genes are expressed in the thyroid-equivalent region of the endostyle. , 1999, 285, 158-169.		94
33	The sequence of 967 amino acids at the carboxyl-end of rat thyroglobulin. Location and surroundings of two thyroxine-forming sites. <i>FEBS Journal</i> , 1985, 148, 7-11.	0.2	93
34	Cloning of ascidian homeobox genes provides evidence for a primordial chordate cluster. <i>Gene</i> , 1995, 156, 253-257.	1.0	92
35	Minireview: Intrinsic and Extrinsic Factors in Thyroid Gland Development: An Update. <i>Endocrinology</i> , 2011, 152, 2948-2956.	1.4	90
36	Distribution of the <i>titf2/foxe1</i> gene product is consistent with an important role in the development of foregut endoderm, palate, and hair. <i>Developmental Dynamics</i> , 2002, 224, 450-456.	0.8	89

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37	Nucleotide sequence of the operator-promoter region of the galactose operon of Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 106-110.	3.3	88
38	The tissue-specific expression of the thyroglobulin gene requires interaction between thyroid-specific and ubiquitous factors. FEBS Journal, 1990, 193, 311-318.	0.2	87
39	A molecular code dictates sequence-specific DNA recognition by homeodomains.. EMBO Journal, 1996, 15, 4992-5000.	3.5	87
40	Increased levels of d-aspartate in the hippocampus enhance LTP but do not facilitate cognitive flexibility. Molecular and Cellular Neurosciences, 2008, 37, 236-246.	1.0	79
41	The DNA Glycosylase T:G Mismatch-specific Thymine DNA Glycosylase Represses Thyroid Transcription Factor-1-activated Transcription. Journal of Biological Chemistry, 2001, 276, 33569-33575.	1.6	73
42	Duox expression and related H2O2 measurement in mouse thyroid: onset in embryonic development and regulation by TSH in adult. Journal of Endocrinology, 2007, 192, 615-626.	1.2	73
43	The complete structure of the rat thyroglobulin gene.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 323-327.	3.3	72
44	The DNA Binding Activity and the Dimerization Ability of the Thyroid Transcription Factor I Are Redox Regulated. Journal of Biological Chemistry, 1995, 270, 12048-12055.	1.6	72
45	The level of thyroglobulin mRNA is regulated by TSH both in vitro and in vivo. Biochemical and Biophysical Research Communications, 1984, 122, 472-477.	1.0	70
46	Mutations in the Gene Encoding Thyroid Transcription Factor-1 (TTF-1) Are Not a Frequent Cause of Congenital Hypothyroidism (CH) with Thyroid Dysgenesis. Thyroid, 1997, 7, 383-387.	2.4	68
47	The GTP-binding protein Rhes modulates dopamine signalling in striatal medium spiny neurons. Molecular and Cellular Neurosciences, 2008, 37, 335-345.	1.0	68
48	Mapping and Functional Role of Phosphorylation Sites in the Thyroid Transcription Factor-1 (TTF-1). Journal of Biological Chemistry, 1996, 271, 2249-2254.	1.6	67
49	The thyroid transcription factor-1 gene is a candidate target for regulation by Hox proteins.. EMBO Journal, 1994, 13, 3339-3347.	3.5	66
50	Minireview: Thyrotropin Receptor Signaling in Development and Differentiation of the Thyroid Gland: Insights from Mouse Models and Human Diseases. Endocrinology, 2004, 145, 4062-4067.	1.4	65
51	Transcriptional Control of the Forkhead Thyroid Transcription Factor TTF-2 by Thyrotropin, Insulin, and Insulin-like Growth Factor I. Journal of Biological Chemistry, 1997, 272, 23334-23339.	1.6	64
52	Rhes Is Involved in Striatal Function. Molecular and Cellular Biology, 2004, 24, 5788-5796.	1.1	63
53	Cihox5 , a new Ciona intestinalis Hox -related gene, is involved in regionalization of the spinal cord. Development Genes and Evolution, 1998, 207, 515-523.	0.4	62
54	A physiological mechanism to regulate d-aspartic acid and NMDA levels in mammals revealed by d-aspartate oxidase deficient mice. Gene, 2006, 374, 50-57.	1.0	62

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55	Insulin and insulin-like growth factor I regulate a thyroid-specific nuclear protein that binds to the thyroglobulin promoter. <i>Molecular Endocrinology</i> , 1992, 6, 1310-1317.	3.7	61
56	The Thyroid Transcription Factor 2 (TTF-2) Is a Promoter-Specific DNA-Binding Independent Transcriptional Repressor. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 203-208.	1.0	61
57	Several regions of Antennapedia and thyroid transcription factor 1 homeodomains contribute to DNA binding specificity.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 5388-5392.	3.3	60
58	Molecular events involved in differentiation of thyroid follicular cells. <i>Molecular and Cellular Endocrinology</i> , 1998, 140, 37-43.	1.6	58
59	Unusual number and genomic organization of Hox genes in the tunicate <i>Ciona intestinalis</i> . <i>Gene</i> , 2003, 309, 71-79.	1.0	58
60	Cloning, chromosomal localization and identification of polymorphisms in the human thyroid transcription factor 2 gene (TTF2). <i>Biochimie</i> , 1999, 81, 433-440.	1.3	57
61	Multiple Ras Downstream Pathways Mediate Functional Repression of the Homeobox Gene Product TTF-1. <i>Molecular and Cellular Biology</i> , 2000, 20, 2783-2793.	1.1	55
62	Dose-Dependent Inhibition of Thyroid Differentiation by RAS Oncogenes. <i>Molecular Endocrinology</i> , 2005, 19, 76-89.	3.7	55
63	Gene expression profiling at early organogenesis reveals both common and diverse mechanisms in foregut patterning. <i>Developmental Biology</i> , 2011, 359, 163-175.	0.9	52
64	The microRNA-Processing Enzyme Dicer Is Essential for Thyroid Function. <i>PLoS ONE</i> , 2011, 6, e27648.	1.1	52
65	Identification and developmental expression of three Distal-less homeobox containing genes in the ascidian <i>Ciona intestinalis</i> . <i>Mechanisms of Development</i> , 2000, 99, 173-176.	1.7	51
66	Hormonal control of the transcription factor Pax8 and its role in the regulation of thyroglobulin gene expression in thyroid cells. <i>Journal of Endocrinology</i> , 2002, 172, 163-176.	1.2	46
67	Essential Roles for Fe65, Alzheimer Amyloid Precursor-binding Protein, in the Cellular Response to DNA Damage. <i>Journal of Biological Chemistry</i> , 2007, 282, 831-835.	1.6	45
68	<i>Ciona intestinalis</i> nuclear receptor 1: A member of steroid/thyroid hormone receptor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 11152-11157.	3.3	44
69	Structural organization of the 3' half of the rat thyroglobulin gene. <i>Nucleic Acids Research</i> , 1984, 12, 3461-3472.	6.5	42
70	Conditional Inactivation of the E-Cadherin Gene in Thyroid Follicular Cells Affects Gland Development but Does Not Impair Junction Formation. <i>Endocrinology</i> , 2007, 148, 2737-2746.	1.4	42
71	Molecular genetics of congenital hypothyroidism. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 289-294.	1.5	41
72	Pendrin Is a Novel In Vivo Downstream Target Gene of the TTF-1/Nkx-2.1 Homeodomain Transcription Factor in Differentiated Thyroid Cells. <i>Molecular and Cellular Biology</i> , 2005, 25, 10171-10182.	1.1	41

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73	In vivo role of different domains and of phosphorylation in the transcription factor Nkx2-1. BMC Developmental Biology, 2011, 11, 9.	2.1	41
74	Transglutaminase activity is related to CAG repeat length in patients with Huntington's disease. Human Genetics, 1996, 98, 633-635.	1.8	40
75	Calreticulin Enhances the Transcriptional Activity of Thyroid Transcription Factor-1 by Binding to Its Homeodomain. Journal of Biological Chemistry, 1999, 274, 4640-4645.	1.6	40
76	A Preservation Method That Allows Recovery of Intact RNA from Tissues Dissected by Laser Capture Microdissection. Analytical Biochemistry, 2002, 300, 139-145.	1.1	38
77	A mos oncogene-containing retrovirus, myeloproliferative sarcoma virus, transforms rat thyroid epithelial cells and irreversibly blocks their differentiation pattern. Journal of Virology, 1985, 56, 284-292.	1.5	37
78	Specific cellular localization of tyrosinase mRNA during Ciona intestinalis larval development. Development Growth and Differentiation, 1997, 39, 437-444.	0.6	36
79	Identification of a cis-regulatory element and a thyroid-specific nuclear factor mediating the hormonal regulation of rat thyroid peroxidase promoter activity. Molecular Endocrinology, 1993, 7, 1297-1306.	3.7	36
80	Neoplastic transformation inactivates specific trans-acting factor(s) required for the expression of the thyroglobulin gene.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1744-1748.	3.3	35
81	Construction of recombinant plasmids containing rat thyroglobulin mRNA sequences. Gene, 1982, 19, 117-125.	1.0	33
82	Concomitant activation of MEK-1 and Rac-1 increases the proliferative potential of thyroid epithelial cells, without affecting their differentiation. Oncogene, 1998, 17, 2047-2057.	2.6	32
83	The CRE-Like Element Inside the 5' Upstream Region of the Rat Sodium/Iodide Symporter Gene Interacts with Diverse Classes of b-Zip Molecules that Regulate Transcriptional Activities through Strong Synergy with Pax-8. Molecular Endocrinology, 2004, 18, 2817-2829.	3.7	32
84	Stimulation of polypeptide synthesis by cyclic 3'-5'-guanosine monophosphate. Archives of Biochemistry and Biophysics, 1973, 157, 334-338.	1.4	31
85	Ascidian Homologs of Mammalian Thyroid Transcription Factor-1 Gene Are Expressed in the Endostyle. Zoological Science, 1999, 16, 559-565.	0.3	31
86	Neuronal NCX1 overexpression induces stroke resistance while knockout induces vulnerability via Akt. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1790-1803.	2.4	31
87	Transfection of TTF-1 gene induces thyroglobulin gene expression in undifferentiated FRT cells. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1354, 171-181.	2.4	27
88	Analysis of the Solution Structure of the Homeodomain of Rat Thyroid Transcription Factor 1 by 1H-NMR Spectroscopy and Restrained Molecular Mechanics. FEBS Journal, 1996, 241, 101-113.	0.2	26
89	Functional Inactivation of the Transcription Factor Pax8 through Oligomerization Chain Reaction. Molecular Endocrinology, 2006, 20, 1810-1824.	3.7	25
90	In vitro synthesis of 300 oo M r rat thyroglobulin subunit. FEBS Letters, 1982, 137, 307-313.	1.3	24

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91	Murine Models for the Study of Thyroid Gland Development. , 2007, 10, 1-14.		24
92	Intronic elements in the Na <sup>+</sup> /I <sup>-</sup> symporter gene (NIS) interact with retinoic acid receptors and mediate initiation of transcription. Nucleic Acids Research, 2010, 38, 3172-3185.	6.5	23
93	Zebrafish bcl2l is a survival factor in thyroid development. Developmental Biology, 2012, 366, 142-152.	0.9	23
94	Differential expression of thyroglobulin gene in normal and transformed thyroid cells. FEBS Journal, 1985, 149, 467-472.	0.2	22
95	Molecular events in the differentiation of the thyroid gland. Journal of Endocrinological Investigation, 1995, 18, 117-119.	1.8	22
96	Hepatocyte Nuclear Factor 3 <sup>β</sup> Participates in the Transcriptional Regulation of the Thyroperoxidase Promoter. Biochemical and Biophysical Research Communications, 1996, 220, 86-93.	1.0	20
97	Ha-ras Interference with Thyroid Cell Differentiation Is Associated with a Down-Regulation of Thyroid Transcription Factor-1 Phosphorylation*. Endocrinology, 1998, 139, 2796-2802.	1.4	20
98	Comparative genomics reveals a functional thyroid-specific element in the far upstream region of the PAX8 gene. BMC Genomics, 2010, 11, 306.	1.2	20
99	A network of specific minor-groove contacts is a common characteristic of paired-domain-DNA interactions. Biochemical Journal, 1996, 315, 363-367.	1.7	19
100	A Locus on Mouse Chromosome 2 Is Involved in Susceptibility to Congenital Hypothyroidism and Contains an Essential Gene Expressed in Thyroid. Endocrinology, 2010, 151, 1948-1958.	1.4	19
101	Mapping of human thyroglobulin gene on the long arm of chromosome 8 by in situ hybridization. Human Genetics, 1985, 71, 163-166.	1.8	17
102	Functional Analysis of the Murine Pax8 Promoter Reveals Autoregulation and the Presence of a Novel Thyroid-Specific DNA-Binding Activity. Thyroid, 2013, 23, 488-496.	2.4	17
103	Wnt4 inhibits cell motility induced by oncogenic Ras. Oncogene, 2013, 32, 4110-4119.	2.6	17
104	The paired box transcription factor Pax8 is essential for function and survival of adult thyroid cells. Molecular and Cellular Endocrinology, 2014, 396, 26-36.	1.6	17
105	Identification of the Thyroid Transcription Factor-1 as a Target for Rat MST2 Kinase. Journal of Biological Chemistry, 1998, 273, 1477-1482.	1.6	16
106	Oncogenic Ras Blocks the cAMP Pathway and Dedifferentiates Thyroid Cells Via an Impairment of Pax8 Transcriptional Activity. Molecular Endocrinology, 2009, 23, 838-848.	3.7	16
107	The block of thyroglobulin synthesis, which occurs upon transformation of rat thyroid epithelial cells, is at the transcriptional level and it is associated with methylation of the 5' flanking region of the gene. Experimental Cell Research, 1989, 183, 277-283.	1.2	15
108	Structural defects of a Pax8 mutant that give rise to congenital hypothyroidism. Biochemical Journal, 1999, 341, 89-93.	1.7	15



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109	Prediction of the secondary structure of the carboxy-terminal third of rat thyroglobulin. <i>Biochemical and Biophysical Research Communications</i> , 1985, 133, 766-772.	1.0	13
110	Structural study of rat thyroid transcription factor 1 homeodomain (TTF-1 HD) by nuclear magnetic resonance. <i>FEBS Letters</i> , 1993, 336, 397-402.	1.3	13
111	Proteins, fatty acids and nutritional value in the muscle of the fish species <i>Mora moro</i> (Risso, 1810). <i>Molecular Nutrition and Food Research</i> , 2005, 49, 926-931.	1.5	12
112	Isolation and characterization of microsatellite loci in the ascidian <i>Ciona intestinalis</i> (L.). <i>Molecular Ecology</i> , 2000, 9, 1924-1926.	2.0	10
113	Characterization of the upstream enhancer of the rat sodium/iodide symporter gene. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2001, 109, 23-26.	0.6	9
114	Interplay of negative and positive signals controls endoderm-specific expression of the ascidian <i>Cititf1</i> gene promoter. <i>Developmental Biology</i> , 2003, 263, 12-23.	0.9	9
115	<i>Cititf1</i> and endoderm differentiation in <i>Ciona intestinalis</i> . <i>Gene</i> , 2002, 287, 115-119.	1.0	8
116	Structural defects of a <i>Pax8</i> mutant that give rise to congenital hypothyroidism. <i>Biochemical Journal</i> , 1999, 341, 89.	1.7	7
117	Immediate early genes induced by H-Ras in thyroid cells. <i>Oncogene</i> , 2001, 20, 2281-2290.	2.6	5
118	Efficient thyroid hormone formation by in vitro iodination of a segment of rat thyroglobulin fused to <i>Staphylococcal</i> protein A. <i>FEBS Letters</i> , 1992, 297, 266-270.	1.3	4
119	<i>PAX8</i> expression in human bladder cancer. <i>Oncology Reports</i> , 2006, 16, 1015.	1.2	3
120	The development of the thyroid gland: what we know and what we would like to know. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2005, 12, 4-9.	0.6	2
121	<i>Anatomy and Development of the Thyroid.</i> , 2010, , 1342-1361.		2
122	Congenital hypothyroidism: searching for its genetic basis. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 1999, 6, 277.	0.6	2
123	Hydrogen-deuterium exchange studies of the rat thyroid transcription factor 1 homeodomain. <i>Journal of Biomolecular NMR</i> , 1997, 9, 397-407.	1.6	1
124	<i>Thyroid Development.</i> , 2009, , 7-18.		1
125	<i>Anatomy and Development of the Thyroid.</i> , 2016, , 1257-1277.e5.		1
126	Thyroid Specific Gene Expression. <i>Advances in Experimental Medicine and Biology</i> , 1989, 261, 373-389.	0.8	1



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127	Basi molecolari dell'ipotiroidismo congenito. L Endocrinologo, 2001, 2, 91-98.	0.0	0
128	Thyroid Gland Development, Molecular Biology. , 2004, , 456-461.		0
129	Thyroid Embryogenesis. , 2015, , 1-14.		0