INFORMAZIONI PERSONALI

Monica Dentice

Viale della Resistenza, 239. 80144 Napoli.

081-19362978 366 3663960

Monica.dentice@unina.it

Sesso F | Data di nascita 07/05/1974 | Nazionalità Italiana

POSIZIONE RICOPERTA: Professore Associato, Dipartimento di Medicina Clinica e Chirurgia, Università degli Studi di Napoli "Federico II"

TITOLO DI STUDIO: Laurea in Scienze Biologiche-Dottorato di Ricerca in Patologia Generale

ISTRUZIONE E FORMAZIONE

1992	Diploma di maturità scientifica conseguito presso il Liceo Scientifico Statale "R. Caccioppoli" di Napoli
1998	Laurea in Scienze Biologiche. Tesi sperimentale in Biologia Molecolare, svolta sotto la responsabilità della Prof.ssa Laura Fucci, presso il Laboratorio di Biologia Molecolare del Dipartimento di Genetica, Biologia Generale e Molecolare, Università degli Studi di Napoli "Federico II".
1999-2001	Tirocinio post-lauream svolto presso il Laboratorio di Biologia e Patologia Generale e Molecolare (lab. Prof. Giancarlo Vecchio).
2001-2004	Dottorato di Ricerca in Biologia e Patologia Cellulare e Molecolare presso l'Università degli Studi di Napoli "Federico II".
2002	Summer Student presso il Thyroid Department, Brigham and Women's Hospital, Harvard University, Boston MA, USA.
2003-2005	Research post-doctoral fellow presso il Thyroid Department, Brigham and Women's Hospital, Harvard University, Boston MA, USA.
2006-2008	Post-doc position presso il laboratorio di Endocrinologia Molecolare del Prof. Domenico Salvatore, Università di Napoli Federico II.
2009-2015	Assegnista di Ricerca, presso il laboratorio di Endocrinologia Molecolare del Prof. Domenico Salvatore, Università di Napoli Federico II.
2015-2017	Ricercatore Universitario a tempo determinato – Dipartimento di Medicina Clinica e Chirurgia, Università degli Studi di Napoli "Federico II".
2017-oggi	Professore Associato di Fisiologia – Dipartimento di Medicina Clinica e Chirurgia, Università degli Studi di Napoli "Federico II".

Soggiorni di Studio presso Istituti di Ricerca Internazionali

2002	Summer student presso il Brigham and Women's Hospital. Boston- Harvard Medical School. Thyroid Division diretta dal Dott. P.R. Larsen
2003-2005	Post-doctoral Fellow. Brigham and Women's Hospital. Boston- Harvard Medical School. Thyroid Division diretta dal Dott. P.R. Larsen

2009 Post-doctoral Fellow. Brigham and Women's Hospital. Boston- Harvard Medical School. Thyroid Division diretta dal Dott. P.R. Larsen

Premi

2002 Short term mobility international program, 2002. Università di Napoli "Federico II".

2008 Premio "Eugenia Rosemberg Award 2008" dell'Endocrine Society, S. Francisco, USA. Giugno 2008.

2008 Premio "Young Investigator Prize 2008" dell'European Thyroid Association, Tessaloniki, Grecia. Settembre 2008.

2013 Premio Internazionale dell'Accademia Nazionale dei Lincei per lo studio sulla Fisiopatologia della Tiroide. Giugno 2013.

2016 Premio "Harington-de Visscher Prize" della European Thyroid Association. Settembre 2016. Cophenagen, Settembre 2016.

Affiliazione a Società Scientifiche

2006-oggi Membro Ordinario della Società Italiana di Endocrinologia (SIE)

2008-oggi Ordinary member "Endocrine Society"

2009-oggi Membro Ordinario dell'Associazione Italiana della Tiroide (AIT)

Finanziamenti per la Ricerca

2008 My First Grant Airc- AIRC- Associazione Italiana Ricerca sul Cancro. Grant proposal title "The functional Interplay between Sonic Hedgehog signaling in skin tumorigenesis. 150,000.00 Euro

2012 Investigator Grant AIRC – Associazione Italiana Ricerca sul Cancro. Grant proposal title "Role of Deiodinases and thyroid hormone metabolism in non-melanoma skin cancer" 165,000.00 Euro

2014 **ERC Starting Grant 2014-** STARS -639548 Grant proposal title: Strategies Targeting Thyroid Hormone in Atrophy Related Syndromes". 1.300,000.00 Euro

2015 **Horizon 2020 PHC 3 Grant 2015-** Thyrage- Grant proposal title: Resetting the THYRoid axis for prevention of AGE-related diseases and co-morbidities". 758,500.00 Euro

2016 Grant FARE Ricerca in Italia – MIUR - Grant proposal title: Switching the Mtabolism Enhancing muscle specific action of thyroid hormones. MET-EOR". 108,440.00 Euro

2017 Investigator Grant AIRC – Associazione Italiana Ricerca sul Cancro. Grant proposal title “Thyroid hormone in non-melanoma skin cancer: new roles in controlling cancer stem cells and invasiveness” 375,000.00 Euro

2023 Investigator Grant AIRC – Associazione Italiana Ricerca sul Cancro. Grant proposal title “Harnessing the Thyroid Hormone signal in cancer: tracing the routes of metabolic perturbation in the microenvironment” 499,000.00 Euro

Pubblicazioni su riviste internazionali

1. **Dentice M**, Mancini P, Aniello F, Branno M, Piscopo M, Pulcrano G, Fucci L. The replacement H3.3 histone gene in Paracentrotus lividus sea urchin: structure and regulatory elements. **Biochim Biophys Acta**. 2001 May 28;1519(1-2):39-45.

2. **Dentice M**, Morisco C, Vitale M, Rossi G, Fenzi G, Salvatore D. The different cardiac expression of the type 2 iodothyronine deiodinase gene between human and rat is related to the differential response of the dio2 genes to Nkx-2.5 and GATA-4 transcription factors. **Mol Endocrinol**. 2003 Aug;17(8):1508-21

3. Kim BW, Zavacki AM, Curcio-Morelli C, **Dentice M**, Harney J, Larsen PR, Bianco AC. Endoplasmic reticulum-associated degradation of the human type 2 iodothyronine deiodinase (D2) is mediated via an association between mammalian UBC7 and the carboxyl region of D2. **Mol Endocrinol**. 2003 Dec;17(12):2603-12.

4. **Dentice M**, Luongo C, Elefante A, Romino R, Ambrosio R, Vitale M, Rossi G, Fenzi G, Salvatore D. Transcription factor Nkx-2.5 induces sodium/iodide symporter gene expression and participates in retinoic acid- and lactation-induced transcription in mammary cells. **Mol Cell Biol**, 24:7863-77, 2004.

5. **Dentice M**, Bandopadhyay A, Gereben B, Callebaut I, Christoffolete MA, Kim BW, Nissim S, Mornon JP, Zavacki AM, Zeold A, Capelo LP, Curcio-Morelli C, Ribeiro R, Harney J, Tabin CJ, Bianco AC. The Hedgehog-inducible ubiquitin ligase subunit WSB-1 modulates thyroid hormone activation and PTHrP secretion in the developing growth plate. **Nat Cell Biol**. 2005 Jul;7(7):698-705.

6. **Dentice M**, C. Luongo, A. Elefante, R. Ambrosio, S. Salzano, M. Zannini, R. Nitsch, R. Di Lauro, G. Rossi, G. Fenzi, D. Salvatore. Pendrin is a Novel In Vivo Downstream Target Gene of the TTF-1/Nkx-2.1 Homeodomain Transcription Factor in Differentiated Thyroid Cells. **Mol Cell Biol**, 25:10171-182, 2005.

7. **M. Dentice**, V. Cordeddu, A. Rosica, A. Ferrara, L. Santarpia, D. Salvatore, L. Chiovato, L. Moschini, C. Fazzini, A. Olivieri, P. Costa, V. Stoppioni, M. Baserga, M. Sorcini, G. Fenzi, R. Di Lauro, M. Tartaglia, P.E. Macchia. Missense mutation in the transcription factor NKX2.5: a novel molecular event in the pathogenesis of thyroid dysgenesis. **J Clin Endocrinol Metab**, 2006. (91) 1428-33.

8. Zeold A, Pormuller L, **Dentice M**, Harney J, Curcio-Morelli C, Tente S, Bianco AC. Gereben B, Metabolic instability of type 2 deiodinase is transferable to stable proteins independently of subcellular localization. **J Biol Chem**. 2006 Oct 20;281(42):31538-43.

9. Sagar GD, Gereben B, Callebaut I, Mornon JP, Zeold A, da Silva WS, Luongo C, **Dentice M**, Tente SM, Freitas BC, Harney J, Zavacki AM, Bianco AC. Ubiquitination-induced conformational change within the deiodinase dimer is a switch regulating enzyme activity. **Mol Cell Biol**. 2007 Jul;27(13):4774-83.

10. **Dentice M**, Luongo C, Huanh S, Ambrosio R, Elefante A, Mirabeau-Prunier D, Zavacki AM, Fenzi G, Grachtchouk M, Dlugosz A, Missero C, Bianco AC, Larsen PR, Salvatore D. "Sonic hedgehog-induced type 3 deiodinase blocks thyroid hormone action thereby enhancing proliferation of normal and malignant keratinocytes". **Proc Natl Acad Sci U S A**. 2007 Sep 4;104(36):14466-71.

11. Gereben B, Zeold A, **Dentice M**, Salvatore D, Bianco AC. . "Activation and inactivation of thyroid hormone by Deiodinases: local action with general consequences". Review. **Cell Mol Life Science** 2007 Nov. 9.

12. Antonini D., **Dentice M**., Mahtani P., De Rosa L., Gatta GD., Mandinova A., Salvatore D., Stupka E., Missero C. Tprg, a Gene Predominantly Expressed in Skin, Is a Direct Target of the Transcription Factor p63. **J Invest Dermatol**. 2008 Feb 7.

13. **Dentice M**., Monfrecola G. "Dual dichotomies-when thyroid dysfunction and thyroid hormones get into the skin. **Thyroid.** 2008 Aug;18(8):823-4.

14. **Dentice M**, Ambrosio R, Salvatore D. "Role of type 3 deiodinase in cancer." **Expert Opin Ther Targets**. 2009 Nov;13(11):1363-73. Review.

15. Marsili A, Ramadan W, Harney JW, Mulcahey M, Castroneves LA, Goemann IM, Wajner SM, Huang SA, Zavacki AM, Maia AL, **Dentice M**, Salvatore D, Silva JE, Larsen PR. Type 2iodothyronine deiodinase levels are higher in slow-twich than fast-twich mouse skeletal muscle and are increased in hypothyroidism. 2010 Dec;151(12):5952-60.

16. **M. Dentice**, A. Marsili, R. Ambrosio, O. Guardiola, A. Sibilio, J. Paik, G. Minchiotti, R.A. DePinho, G. Fenzi, PR. Larsen, D. Salvatore. The FoxO3/type 2 deiodinase pathway is required for normal mouse myogenesis and muscle regeneration. **Journal of Clinical Investigation.** 2010 Aug.

17. **Monica Dentice**. Hedgehog-mediated regulation of thyroid hormone action through iodothyronine deiodinases. **Expert Opin. Ther. Targets** Review. (2011) 15(4):1-12

18. **Monica Dentice** and Domenico Salvatore. Local impact of thyroid hormone inactivation. **Journal of Endocrinology**. (2011) 209, 273–282.

19. Marsili A, Tang D, Harney JW, Singh P, Zavacki AM, **Dentice M,** Salvatore D, Larsen PR. Type 2 iodothyronine deiodinase provides intracellular 3,5,3' triiodothyronine to normal and regenerating mouse skeletal muscle. **Am J Physiol Endocrinol Metab**. 2011 Jul 19.

20. **Dentice M**, Marsili A, Zavacki A, Larsen PR, Salvatore D. The deiodinases and the control of intracellular thyroid hormone signaling during cellular differentiation. **Biochim Biophys Acta**. 2012 May 24

21. **Dentice M**, Luongo C, Ambrosio R, Sibilio A, Casillo A, Iaccarino A, Troncone G, Fenzi G, Larsen PR, Salvatore D. B-Catatenin regulates deiodinase levels and thyroid hormone signaling in colon cancer cells. **Gastroenterology.** 2012 Oct;143(4):1037-47.

22. Sibilio A., Ambrosio R., Bonelli C., De Stefano MA, Torre V, **Dentice M.** and Salvatore D. Deiodination in cancer growth: the role of type III deiodinase. **Minerva Endocrinol.** 2012 Dec;37(4):315-27. Review.

23. Ambrosio R, Damiano V, Sibilio A, De Stefano MA, Avvedimento VE, Salvatore D, **Dentice M.** Epigenetic control of type 2 and 3 deiodinases in myogenesis: role of Lysin-specific Demethylase enzyme and FoxO3. **Nucleic Acids Res.** 2013 Apr 1;41(6):3551-62.

24. Antonini D, Sibilio A, **Dentice M**, Missero C. An intimate relationship between thyroid hormone and skin regulation of gene expression. **Front Endocrinol.** 2013 Aug 22;4:104.

25. **Dentice M**, Antonini D, Salvatore D. Type 3 deiodinase and solid tumors: an intriguing pair. **Expert Opin Ther Targets**. 2013 Nov;17(11):1369-79.

26. Salvatore D, Simonides WS, **Dentice M**, Zavacki AM, Larsen PR. Thyroid hormones and skeletal muscle--new insights and potential implications. **Nat Rev Endocrinol**. 2014 Apr;10(4):206-14.

27. Luongo C, Ambrosio R, Salzano S, Dlugosz AA, Missero C, **Dentice M.** The sonic hedgehog-induced type 3 deiodinase facilitates tumorigenesis of basal cell carcinoma by reducing Gli2 inactivation. **Endocrinology**. 2014 Jun;155(6):2077-88.

28. Castroneves LA, Jugo RH, Maynard MA, Lee JS, Wassner AJ, Dorfman D, Bronson RT, Ukomadu C, Agoston AT, Ding L, Luongo C, Guo C, Song H, Demchev V, Lee NY, Feldman HA, Vella KR, Peake RW, Hartigan C, Kellogg MD, Desai A, Salvatore D, **Dentice M**, Huang SA. Mice with hepatocyte-specific deficiency of type 3 deiodinase have intact liver regeneration and accelerated recovery from nonthyroidal illness after toxin-induced hepatonecrosis. **Endocrinology.** 2014 Oct;155(10):4061-8.

29. Luongo C, Martin C, Vella K, Marsili A, Ambrosio R, **Dentice M**, Harney JW, Salvatore D, Zavacki AM, Larsen PR. The selective loss of the type 2 iodothyronine deiodinase in mouse thyrotrophs increases basal TSH but blunts the thyrotropin response to hypothyroidism. **Endocrinology.** 2015 Feb;156(2):745-54.

30. **Dentice M**, Ambrosio R, Damiano V, Sibilio A, Luongo C, Guardiola O, Yennek S, Zordan P, Minchiotti G, Colao A, Marsili A, Brunelli S, Del Vecchio L, Larsen PR, Tajbakhsh S, Salvatore D. Intracellular inactivation of thyroid hormone is a survival mechanism for muscle stem cell proliferation and lineage progression. **Cell Metab**. 2014 Dec 2;20(6):1038-48.

31. Generoso SF, Giustiniano M, La Regina G, Bottone S, Passacantilli S, Di Maro S, Cassese H, Bruno A, Mallardo M, **Dentice M**, Silvestri R, Marinelli L, Sarnataro D, Bonatti S, Novellino E, Stornaiuolo M. Pharmacological folding chaperones act

as allosteric ligands of Frizzled4. **Nat Chem Biol**. 2015 Apr;11(4):280-6.

32. **Dentice M**, Catalano V, Ambrosio R, Luongo C, Carollo R, Benfante A, Todaro M, Stassi G, Salvatore D. Activated thyroid hormone promotes differentiation and chemotherapeutic sensitization of colorectal cancer stem cells by regulating Wnt and BMP4 signaling. **Cancer Res.** 2015 Dec 16.

33. Di Girolamo D, Ambrosio R, De Stefano MA, Mancino G, Porcelli T, Luongo C, Di Cicco E, Scalia G, Vecchio LD, Colao A, Dlugosz AA, Missero C, Salvatore D, **Dentice M.** Reciprocal interplay between thyroid hormone and microRNA-21 regulates hedgehog pathway-driven skin tumorigenesis. **J Clin Invest**. 2016 Jun 1;126(6):2308-20.

34. van der Spek AH, Bloise FF, Tigchelaar W, **Dentice M**, Salvatore D, van der Wel NN, Fliers E, Boelen A. "The Thyroid Hormone Inactivating Enzyme Type 3 Deiodinase is Present in Bactericidal Granules and the Cytoplasm of Human Neutrophils". **Endocrinology.** 2016 Aug;157(8):3293-305.

35. Miro C, Ambrosio R, De Stefano MA, Di Girolamo D, Di Cicco E, Cicatiello AG, Mancino G, Porcelli T, Raia M, Del Vecchio L, Salvatore D, **Dentice M**. "The Concerted Action of Type 2 and Type 3 Deiodinases Regulates the Cell Cycle and Survival of Basal Cell Carcinoma Cells". **Thyroid**. 2017 Apr;27(4):567-576.

36. Castagna MG, **Dentice M**, Cantara S, Ambrosio R, Maino F, Porcelli T, Marzocchi C, Garbi C, Pacini F, Salvatore D. "DIO2 Thr92Ala Reduces Deiodinase-2 Activity and Serum-T3 Levels in Thyroid-Deficient Patients". **J Clin Endocrinol Metab**. 2017 May 1;102(5):1623-1630.

37. Cicatiello AG, Ambrosio R, **Dentice M**. "Thyroid hormone promotes differentiation of colon cancer stem cells". **Mol Cell Endocrinol**. 2017 Dec 25;459:84-89.

38. Riccio G, Bottone S, La Regina G, Badolati N, Passacantilli S, Rossi GB, Accardo A, **Dentice M**, Silvestri R, Novellino E, Stornaiuolo M. "A Negative Allosteric Modulator of WNT Receptor Frizzled 4 Switches into an Allosteric Agonist". **Biochemistry**. 2018 Feb 6;57(5):839-851.

39. Cicatiello AG, Di Girolamo D, **Dentice M.** "Metabolic Effects of the Intracellular Regulation of Thyroid Hormone: Old Players, New Concepts". **Front Endocrinol**. 2018 Sep 11;9:474.

40. Badolati N, Sommella E, Riccio G, Salviati E, Heintz D, Bottone S, Di Cicco E, **Dentice M**, Tenore G, Campiglia P, Stornaiuolo M, Novellino E." Annurca Apple Polyphenols Ignite Keratin Production in Hair Follicles by Inhibiting the Pentose Phosphate Pathway and Amino Acid Oxidation".
Nutrients. 2018 Oct 2;10(10).

41. Riccio G, Sommella E, Badolati N, Salviati E, Bottone S, Campiglia P, **Dentice M**, Tenore GC, Stornaiuolo M, Novellino E. " Annurca Apple Polyphenols Protect Murine Hair Follicles from Taxane Induced Dystrophy and Hijacks Polyunsaturated Fatty Acid Metabolism toward β-Oxidation".
Nutrients. 2018 Nov 20;10(11).

42. Sommella E, Badolati N, Riccio G, Salviati E, Bottone S, **Dentice M**, Campiglia P, Tenore GC, Stornaiuolo M, Novellino E. "A Boost in Mitochondrial Activity Underpins the Cholesterol-Lowering Effect of Annurca Apple Polyphenols on Hepatic Cells. **Nutrients.** 2019 Jan 14;11(1).

43. Malagola E, Chen R, Bombardo M, Saponara E, **Dentice M**, Salvatore D, Reding T, Myers S, Hills AP, Graf R, Sonda S. "Local hyperthyroidism promotes pancreatic acinar cell proliferation during acute pancreatitis". **J Pathol**. 2019 Feb

44. Carmody C, Ogawa-Wong AN, Martin C, Luongo C, Zuidwijk M, Sager B, Petersen T, Roginski Guetter A, Janssen R, Wu EY, Bogaards S, Neumann NM, Hau K, Marsili A, Boelen A, Silva JE, **Dentice M**, Salvatore D, Wagers AJ, Larsen PR, Simonides WS, Zavacki AM. "A Global Loss of Dio2 Leads to Unexpected Changes in Function and Fiber Types of Slow Skeletal Muscle in Male Mice". **Endocrinology.** 2019 Apr 5.

45. Cristina Luongo, **Monica Dentice** and Domenico Salvatore. "Deiodinases and their intricate role in thyroid hormone homeostasis" . **Nat Rev Endocrinol**. 2019.

46. Di Rienzo M., Antonioli M., Fusco C., Liu Y., Mari M., Orhon I., Refolo G., Germani F., Corazzari M., Romagnoli A., Ciccosanti F., Mandriani B., Pellico M.T., De La Torre R., Ding H., **Dentice M**…..and Fimia G.M. "Autophagy induction in atrophic muscle cells requires ULK1 activation by TRIM32 through unanchored K63-linked polyubiquitin chains" . **Science Advances, 2019, 5(5).**

47. Carmody, Colleen; Ogawa-Wong, Ashley N., Martin Cecilia, Luongo Cristina, Zuidwijk Marian, Sager, Benjamin, Petersen Travis, Roginski Guetter, Adriana, Janssen Rob, Wu, Elizabeth Y., Bogaards Sylvia, Neumann, Neil M., Hau Kaman, Marsili Alessandro, Boelen Anita, Silva J. Enrique, **Dentice Monica**, …. And Zavacki, Ann Marie "A Global Loss of Dio2 Leads to Unexpected Changes in Function and Fiber Types of Slow Skeletal Muscle in Male Mice". **Endocrinology** 160 (5).

48. Di Rienzo M., Antonioli M., Fusco C., Liu Y., Mari M., Orhon I., Refolo G., Germani F., Corazzari M., Romagnoli A., Ciccosanti F., Mandriani B., Pellico M.T., De La Torre R., Ding H., **Dentice M**…..and Fimia G.M. "A Global Loss of Dio2 Leads to Unexpected Changes in Function and Fiber Types of Slow Skeletal Muscle in Male Mice" . **Science Advances,** 2019**, 5(5).**

49. Malagola E., Chen R., Bombardo M., Saponara E., **Dentice M**. ….and Sonda Sabrina. "Local hyperthyroidism promotes pancreatic acinar cell proliferation during acute pancreatitis". **Journal of Pathology** 2019 248 (2).

50. Sagliocchi S., Cicatiello, AG, Di Cicco E., Ambrosio R., Miro C., Di Girolamo, D., Nappi A., Mancino, G., De Stefano, MA, Luongo C., Raia M., Ogawa-Wong AN., Zavacki AM, Paladino S., Salvatore D. and **Dentice M**. "The thyroid hormone activating enzyme, type 2 deiodinase, induces myogenic differentiation by regulating mitochondrial metabolism and reducing oxidative stress". **Redox Biology** 2019 (24).

51. Nettore IC., Rocca C., Mancino G., Albano L., Amelio D., Grande F., Puoci F., Pasqua T., Desiderio S., Mazza R., Terracciano D., Colao A., Bèguinot F., Russo

GL., **Dentice M**……and Ungaro P., "Quercetin and its derivative Q2 modulate chromatin dynamics in adipogenesis and Q2 prevents obesity and metabolic disorders in rats". **Journal of Nutritional Biochemistry** 2019 69 (151).

52. Luongo, C., **Dentice, M.** and Salvatore, D. "Deiodinases and their intricate role in thyroid hormone homeostasis". **Nature Reviews Endocrinology**, 2019.

53. Miro C., Di Cicco E., Ambrosio R., Mancino G., Di Girolamo D., Cicatiello AG., Sagliocchi S., Nappi A., De Stefano MA., Luongo C., Antonini D., Visconte F., Varricchio S., Ilardi G., Del Vecchio L., Staibano S., Boelen A., Blanpain C., Missero C., Salvatore D. and **Dentice M.** "Thyroid hormone induces progression and invasiveness of squamous cell carcinomas by promoting a ZEB-1/E-cadherin switch". **Nature Communications** 2019 10 (1).

54. Rurale G., Di Cicco E., **Dentice M**., Salvatore D., Persani L., Marelli F. and Luongo C. "Thyroid Hormone Hyposensitivity: From Genotype to Phenotype and Back". **Frontiers in Endocrinology** 10 2020 (24).

55. Nappi A., Di Cicco E., Miro C., Cicatiello AG., Sagliocchi S., Mancino G., Ambrosio R., Luongo C., Di Girolamo D., De Stefano MA., Porcelli T., Stornaiuolo M. and **Dentice M**. "The NANOG transcription factor induces type 2 deiodinase expression and regulates the intracellular activation of thyroid hormone in keratinocyte carcinomas". **Cancers** 2020 12(3).

56. Badolati N., Masselli R., Sommella E., Sagliocchi S., Minno A., Salviati E., Campiglia P., **Dentice M.**, Tenore G., Stornaiuolo M. and Novellino E. "The hepatoprotective effect of taurisolo, a nutraceutical enriched in resveratrol and polyphenols, involves activation of mitochondrial metabolism in mice liver". **Antioxidants** 2020 9 (5).

57. Mancino G., Sibilio A., Luongo C., Di Cicco E., Miro C., Cicatiello AG., Nappi A., Sagliocchi S., Ambrosio, R., De Stefano MA., Di Girolamo D., Porcelli T., Salvatore D. and **Dentice M.** "The Thyroid Hormone Inactivator Enzyme, Type 3 Deiodinase, Is Essential for Coordination of Keratinocyte Growth and Differentiation". **Thyroid** 2020.

58. Cardone C., Blauensteiner B., Moreno-Viedma V., Martini G., Simeon V., Vitiello, PP., Ciardiello D., Belli V., Matrone N., Troiani T., Morgillo F., Zito Marino F., **Dentice M**., ….and Martinelli E. "AXL is a predictor of poor survival and of resistance to anti-EGFR therapy in RAS wild-type metastatic colorectal cancer". **European Journal of Cancer** 2020.

59. Miro C., Di Cicco E., Ambrosio R., Mancino G., Di Girolamo D., Cicatiello AG., Sagliocchi S., Nappi A., De Stefano MA., Luongo C., Antonini D., Visconte F., Varricchio S., Ilardi G., Del Vecchio L., Staibano S., Boelen A., Blanpain C., Missero C., Salvatore D. and **Dentice M**. "Thyroid hormone induces progression and invasiveness of squamous cell carcinomas by promoting a ZEB-1/E-cadherin switch". **Nature Communications** 2020.

60. An X., Ogawa-Wong A., Carmody C., Ambrosio R., Cicatiello AG., Luongo C., Salvatore D., Handy DE., Larsen PR., Wagner SM., **Dentice M.** and Zavacki AM. "A Type 2 Deiodinase-Dependent Increase in Vegfa Mediates Myoblast-Endothelial Cell Crosstalk during Skeletal Muscle Regeneration". **Thyroid** 2021.

61. Troiani T., Napolitano S., Brancaccio G., Belli V., Nappi A., Miro C., Salvatore D., **Dentice M**.……and Argenziano G. "Treatment of cutaneous melanoma harboring smo p.Gln216arg mutation with imiquimod: An old drug with new results". **Journal of Personalized Medicine** 2021.

62. Nappi A., De Stefano M.A., Dentice M. and Salvatore, D. "Deiodinases and Cancer". Endocrinology 2021.

63. Miro C., Nappi A., Cicatiello AG., Di Cicco E., Sagliocchi S., Murolo M., Belli V., Troiani T., Albanese S., Amiranda S., Zavacki AM., Stornaiuolo M., Mancini M., Send mail to Mancini M., Salvatore D. and **Dentice M**. "Thyroid hormone enhances angiogenesis and the warburg effect in squamous cell carcinomas". **Cancers** 2021.

64. Nappi A., Murolo M., Sagliocchi S., Miro C., Cicatiello AG., Di Cicco E., Di Paola R., Raia M., D'Esposito L., Stornaiuolo M. and **Dentice M**. "Selective inhibition of genomic and non-genomic effects of thyroid hormone regulates muscle cell differentiation and metabolic behavior". **International Journal of Molecular Sciences** 2021.

65. Di Cicco E., Moran C., Visser WE., Nappi A., Schoenmakers E., Todd P., Lyons G., Dattani M., Ambrosio R., Parisi S., Salvatore D., Chatterjee K. And **Dentice M.** "Germ Line Mutations in the Thyroid Hormone Receptor Alpha Gene Predispose to Cutaneous Tags and Melanocytic Nevi". **Thyroid** 2021.

66. Mancino G., Miro C., Di Cicco E. and **Dentice M**. "Thyroid hormone action in epidermal development and homeostasis and its implications in the pathophysiology of the skin". **Journal of Endocrinological Investigation** 2021.

67. Cicatiello ag., Sagliocchi S., Nappi A., Di Cicco E., Miro C., Murolo M., Stornaiuolo M. and **Dentice M**. "Thyroid hormone regulates glutamine metabolism and anaplerotic fluxes by inducing mitochondrial glutamate aminotransferase GPT2". **Cell Reports** 2022.

68. Miro C., Di Giovanni A., Murolo M., Cicatiello AG., Nappi A., Sagliocchi S., Di Cicco E., Morra F., Celetti A., Pacifico F., Imbimbo C., Crocetto F. and **Dentice M.** "Thyroid hormone and androgen signals mutually interplay and enhance inflammation and tumorigenic activation of tumor microenvironment in prostate cancer". **Cancer Letters** 2022.

69. Nappi A., Murolo M., Cicatiello AG., Sagliocchi S., Di Cicco E., Raia M., Stornaiuolo M., **Dentice, M.** and Miro C. "Thyroid Hormone Receptor Isoforms Alpha and Beta Play Convergent Roles in Muscle Physiology and Metabolic Regulation". **Metabolites** 2022.

70. Murolo, M., Di Vincenzo, O.., Cicatiello, A.G., Scalfi, L. and **Dentice, M.** "Cardiovascular and Neuronal Consequences of Thyroid Hormones Alterations in the Ischemic Stroke". **Metabolites** 2023.

71. **Dentice M.**, Biressi S., Giordani L. and Guardiola O. "Editorial: Cellular heterogeneity in physiological and pathological myogenesis". **Frontiers in Cell and Developmental Biology** 2023.

72. Simonides W., Tijsma A., Boelen A., Jongejan R., de Rijke Y., Peeters R. and **Dentice M.**, Salvatore D. and Muller A. “Divergent Thyroid Hormone Levels in Plasma and Left Ventricle of the Heart in Compensated and Decompensated Cardiac Hypertrophy Induced by Chronic Adrenergic Stimulation in Mice”. **Metabolites** 2023.

73. Sagliocchi S., Murolo M., Cicatiello AG., Miro C., Nappi A., Di Cicco E., Torabinejad S., La Civita E., Romano V., Terracciano D., Stornaiuolo M., and **Dentice M.** “Repositioning of Cefuroxime as novel selective inhibitor of the thyroid hormone activating enzyme type 2 deiodinase”. **Pharmacological Research** 2023.

74. Porcelli T., Ambrosio R., De Stefano MA., Luongo C., Terracciano D., Miro C., **Dentice M.**, Schlumberger M. and Salvatore D. “Vandetanib downregulates type 2 deiodinase in fibro/adipogenic progenitors”. **Endocrine-Related Cancer** 2023.

75. Menale C., Trinchese G., Aiello I., Scalia G., **Dentice M.,** Mollica M. and Diano S. “Nutrient-Dependent Mitochondrial Fission Enhances Osteoblast Function”. **Nutrients** 2023.

76. Miro C., Docimo, A., Barrea L., Verde L., Cernea S., Sojat AS., Marina L., Docimo G., Colao A., **Dentice M.** and Muscogiuri G. ““Time” for obesity-related cancer: The role of the circadian rhythm in cancer pathogenesis and treatment”. **Seminars in Cancer Biology** 2023.

77. Torabinejad S., Miro C., Barone B., Imbimbo C., Crocetto F. and **Dentice M.** “The androgen-thyroid hormone crosstalk in prostate cancer and the clinical implications”. **European Thyroid Journal** 2023.

78. Miro C., Nappi A., Sagliocchi S., Di Cicco E., Murolo M., Torabinejad S., Acampora L., Pastore A., Luciano P., La Civita E., Terracciano D., Stornaiuolo M., **Dentice M.** and Cicatiello AG. “Thyroid Hormone Regulates the Lipid Content of Muscle Fibers, Thus Affecting Physical Exercise Performance”. **International Journal of Molecular Sciences** 2023.

79. Abbotto E., Miro C., Piacente F., Salis A., Murolo M., Nappi A., Millo E., Russo E., Cichero E., Sturla L., Del Rio A., De Nencioni A., **Dentice M.** and Bruzzone S. “SIRT6 pharmacological inhibition delays skin cancer progression in the squamous cell carcinoma”. **Biomedicine and Pharmacotherapy** 2023.

80. Nappi A., Miro C., Pezone A.,Tramontano A., Di Cicco E., Sagliocchi S., Cicatiello AG., Murolo M., Torabinejad S., Abbotto E., Caiazzo G., Raia M., Stornaiuolo M., Antonini D., Fabbrocini G., Salvatore D., Avvedimento VE. and **Dentice M.** “Loss of p53 activates thyroid hormone via type 2 deiodinase and enhances DNA damage”. **Nature Communications** 2023.

81. Iannuzzo F., Cicatiello AG., Sagliocchi S., Schiano E., Nappi A., Miro C., Stornaiuolo M., Mollica A., Tenore GC., **Dentice M.** and Novellino E. “Therapeutic Effect of an Ursolic Acid-Based Nutraceutical on Neuronal Regeneration after Sciatic Nerve Injury”. **International Journal of Molecular Sciences** 2024.

82. Cicatiello AG., Nappi A., Franchini F., Nettore IC., Raia M., Rocca C., Angelone T., **Dentice M.**, Ungaro P. and Macchia PE. "The histone methyltransferase SMYD1 is induced by thermogenic stimuli in adipose tissue". **Epigenomics** 2024.

83. Di Vincenzo O., Pagano E., Cervone M., Acampora L., **Dentice M.**, Gheri CF., Pasanisi F. and Scalfi L. "Low triiodothyronine is associated with high risk of malnutrition and poor functional status in subacute stroke patients". **Nutrition, Metabolism and Cardiovascular Diseases** 2024.

84. Sagliocchi S., Restolfer F., Cossidente A. and **Dentice M.** "The key roles of thyroid hormone in mitochondrial regulation, at interface of human health and disease". **Journal of Basic and Clinical Physiology and Pharmacology** 2024.

85. Piacente F., Guccione G., Scarano N., Lunaccio D., Miro C., Abbotto E., Salis A., Tasso B., **Dentice M.**, Bruzzone S., Cichero E. and Millo E. "Discovery of Novel Thiazole-Based SIRT2 Inhibitors as Anticancer Agents: Molecular Modeling, Chemical Synthesis and Biological Assays". **International Journal of Molecular Sciences** 2024.

86. Miro C., Menale C., Acampora L., Nappi A., Sagliocchi S., Restolfer F., Torabinejad S., Stornaiuolo M., Dentice M. and Cicatiello AG. "Muscle PGC-1α Overexpression Drives Metabolite Secretion Boosting Subcutaneous Adipocyte Browning". **Journal of Cellular Physiology** 2025**.**

87. Miro C., Cicatiello GC, Nappi A., Sagliocchi S., Acampora L., Restolfer F., Cuomo O., De Alteris G., Pugliese G.,Torabinejad S., Maritato R., Murolo M., Di Cicco E., Velotti N., Capuano M., La Civita E., Terracciano E., Ciampaglia R., Stornaiuolo M., Musella M., Aprea G., Pignataro G., Savastano S. and **Dentice M.** "Leptin enhances the intracellular Thyroid Hormone activation in skeletal muscle to boost energy balance". **Cell Metabolism** 2025.

Seminari e Presentazioni su Invito

1) Seminario interdipartimentale dal titolo "Shh regola l'attivazione dell'ormone tiroideo mediante l'ubiquitinazione della Desiodasi di tipo II". 04-07-2005 DBPCM, Università degli Studi di Napoli, Federico II.
2) "Pendrina è un nuovo target del fattore trascrizionale TTF-1/Nkx-2.1 nella cellule tiroidee". Oral Comunication. XXIII Giornate Italiane della Tiroide- Torino 2005.
3) "D3 expression in the mouse skin and its regulation by Sonic Hedgehog". Oral Comunication. **Meeting of the European Thyroid Association**. Napoli, 3-6 Settembre 2006.
4) "Regolazione dell'espressione della Desiodasi di tipo III nella pelle". Oral Comunication. XXIV Giornate Italiane della Tiroide- Modena 2006.
5) "D3 expression in the mouse skin and its regulation by Sonic Hedgehog". Oral Comunication. XXXII Congresso Nazionale della Società Italiana di Endocrinologia. Verona, 13-16 Giugno 2007.
6) "RNA interfearence" Invited Lecture. Congresso Nazionale della Società Italiana di Endocrinologia. Verona, 13-16 Giugno 2007.
7) "The thyroid Hormone-Thyroid Hormone interaction in the tumorigenesis of Basal cella carcinoma cells". Oral Comunication. **Endocrine Society Meeting**, S. Francisco, USA. Giugno 2008.

8) “The interrplay between Thyroid hormone signalling and Sonic Hedgehog pathway in the tumorigenesis of Basal cell carcinoma cells”. Oral Comunication. **European Thyroid Association**. Tessaloniki, Grecia, 2008.
9) “The Wnt/ B-Catenin pathway controls type 2 and 3 deiodinase expression”. Oral Comunication. 14th **International Thyroid Congress**, Parigi 11-16 September 2010
10) “Type 3 deiodinase is highly expressed in proliferating myoblasts and during the early phase of muscle regeneration”. Oral Comunication. 35° **European Thyroid Association Meeting.** Krakow,10-14 September 2011
11) “Deiodinases in the control of Cell Cycle”. Invited Speaker, 10th International **Workshop on Resistance to Thyroid Hormone Action**. Quebec, Canada, 17-19th September 2012.
12) “Role of deiodinases in the physiology of muscle stem cells”. Invited Speaker. 11th **International Workshop on Resistance to Thyroid Hormone Action**. Santiago de Compostela, Spagna, Settembre 2014.
13) “Deiodinases in Muscle Regeneration”. Invited Speaker. XIXth **Annual Symposium Dutch Thyroid Research Foundation**. Amsterdam 12-13 Giugno 2015.
14) “Muscle Satellite Cells”. Invited Speaker. 85th International Meeting of the **American Thyroid Association**. Orlando, Florida, 18-23 Ottobre 2015.
15) “The Thyroid hormone metabolism in muscle physiology and disease”. Invited Speaker. **Society for Endocrinology** BES 2016 Conference. Brighton, UK, November 2016.
16) “Thyroid hormone action and microRNA21 in Skin Tumorigenesis”. Invited Speaker. **Endocrine Society** 2017 Conference. Orlando, FL, USA. Aprile 2017.

Fattori Bibliometrici

N. Totale Pubblicazioni	91
N. Lavori ad ultimo nome	23
N. Citazioni	3513
H-index	34

Brevetti Internazionali

1. Brevetto Internazionale dal titolo: Methods and Products for Treating Proliferative Disorders. May 8-2008. Autori: P.R. Larsen, A. Bianco, M. Dentice, C. Missero, D. Salvatore. External Ref. No. BWH 1326. Internal Ref, No: B0801.70352WO00

2. Brevetto Internazionale dal titolo: Use of cefuroxime as d2 enzyme inhibitor. AG. Cicatiello, M. Dentice, E. Di Cicco, C. Miro, M. Murolo, A. Nappi, S. Sagliocchi, D. Salvatore and M. Stornaiuolo. Patent number: 102021000031205.

Il/La sottoscritto/a è consapevole che:
- è soggetto alle sanzioni previste dal codice penale e dalle leggi speciali in materia qualora rilasci dichiarazioni mendaci, formi o faccia uso di atti falsi od esibisca atti contenenti dati non più rispondenti a verità (art. 76 D.P.R. 28.12.2000, n. 445);
- decade dai benefici eventualmente conseguenti al provvedimento emanato sulla base della dichiarazione non veritiera qualora dal controllo effettuato dall'Amministrazione emerga la non veridicità del contenuto della dichiarazione (artt. 71 e 75 D.P.R. 28.12.2000, n. 445).

Napoli, 18/01/2025 Monica Dentice