

**FORMATO  
EUROPEO PER IL  
CURRICULUM  
VITAE**



**INFORMAZIONI PERSONALI**

Nome

**SUSANNA DOLCI**

Nazionalità

Italiana

**ESPERIENZA LAVORATIVA**

**In Italia**

**Ricercatore** in Anatomia (BIO/16), dal 1993 al 2000, Università di Roma Tor Vergata

**Professore Associato** di Anatomia, Università di Roma Tor Vergata, dal 2000 al 2019.

**Professore Ordinario** di Anatomia dal 2019 ad oggi

**Docente** del Corso di Dottorato in Embriologia Medica prima e Biotecnologie Mediche e Medicina Traslazionale presso l'Università di Roma Tor Vergata dal 1993 ad oggi.

**All'estero**

**Visiting Scientist** presso il *Mammalian Genetics Laboratory* del *National Cancer Institute* (Dr. P.J. Donovan), Frederick MD, U.S.A. 1990-1993

**Research Associate** presso il *Gordon Institute Wellcome-Trust*, Cambridge, UK. Luglio-Settembre 1998

**ISTRUZIONE E FORMAZIONE**

**Laurea** in Medicina e Chirurgia, Sapienza Università di Roma: 1985 (*Magna cum laude*)

Iscritta al Corso di **Specializzazione in Oncologia**, Università degli Studi dell'Aquila: 1992-1993

**Dottorato di Ricerca** in Scienze Morfogenetiche e Citologiche: 1991.

## • ATTIVITA' SCIENTIFICA

Numero di **lavori** indexati e impattati su riviste scientifiche internazionali: 87

**Primo-Ultimo nome:** circa 50%

Numero di lavori **ultimi 10 anni:** 26

**numero citazioni totali:** >4000

**H-index:** 38 scopus

I contributi originali apportati riguardano la **Biologia dello Sviluppo e della Riproduzione, l'Endocrinologia della riproduzione**. La Prof. Dolci ha prodotto le seguenti **linee di ricerca** originali per le quali è citata nell'ambito scientifico internazionale e che caratterizzano il suo profilo scientifico:

- Caratterizzazione e ruolo dei fattori di crescita per le cellule germinali nella gonade fetale
- Ruolo delle MAPK nella proliferazione delle cellule germinali
- Caratterizzazione e ruolo dei fattori di crescita per le cellule germinali maschili
- Ruolo di Sox2 nelle ESCs, melanoma cells e neural stem cells

## 10 MIGLIORI ARTICOLI SCIENTIFICI

1) **Dolci S.** and M. De Felici (1990): A study of meiosis in chimeric mouse fetal gonads. *Development* 109: 37-40.

2) **Dolci S.**, Williams D.E., Ernst M.K., Resnick J., Brannan C., Lock L., Lyman S., Boswell S.C., and P.J. Donovan (1991): Mast cell growth factor mediates primordial germ cell survival in culture. *Nature* 349: 802-804.

3) **Dolci S.**, Levati L., Pellegrini M., Faraoni I., Graziani G., Di Carlo A., Geremia R. 2002. Stem cell factor activates telomerase in mouse mitotic spermatogonia and in primordial germ cells. *J. Cell Sci.* 115:1643-1649.

4) Pellegrini M, Grimaldi P, Rossi P, Geremia R, **Dolci S.** 2003. Developmental expression of BMP4/ALK3/SMAD5 signaling pathway in the mouse testis: a potential role of BMP4 in spermatogonia differentiation. *J Cell Sci.* 116:3363-72.

5) Barrios F, Filipponi D, Pellegrini M, Paronetto MP, Di Siena S, Geremia R, Rossi P, De Felici M, Jannini EA, **Dolci S.**

Opposing effects of retinoic acid and FGF9 on Nanos2 expression and meiotic entry of mouse germ cells.

*J Cell Sci.* 2010 Mar 15;123(Pt 6):871-80. doi: 10.1242/jcs.057968. Epub 2010 Feb 16.

6) Pellegrini M, Filipponi D, Gori M, Barrios F, Lolicato F, Grimaldi P, Rossi P, Jannini EA, Geremia R, **Dolci S.** 2008. ATRA and KL promote differentiation toward the meiotic program of male germ cells. *Cell Cycle.* 7:3878-3888.

7) Filipponi D, Hobbs RM, Ottolenghi S, Rossi P, Jannini EA, Pandolfi PP, **Dolci S.** 2007. Repression of kit expression by Plzf in germ cells. *Mol Cell Biol.* 27:6770-81.

8) Barrios F, Filipponi D, Campolo F, Gori M, Bramucci F, Pellegrini M, Ottolenghi S, Rossi P, Jannini EA, **Dolci S.** SOHLH1 and SOHLH2 control Kit expression during postnatal male germ cell development *J Cell Sci.* 2012 15;125:1455-64.

9) Campolo F, Gori M, Favaro R, Nicolis S, Pellegrini M, Botti F, Rossi P, Jannini EA, **Dolci S.** Essential role of Sox2 for the establishment and maintenance of the germ cell line. *Stem Cells.* 2013;31(7):1408-21. doi: 10.1002/stem.1392.

10) Cesarini V, Guida E, Todaro F, Di Agostino S, Tassinari V, Nicolis S, Favaro R, Caporali S, Lacal PM, Botti E, Costanzo A, Rossi P, Jannini EA, Dolci S. Sox2 is not required for melanomagenesis, melanoma growth and melanoma metastasis in vivo. *Oncogene.* 2017 Aug;36(31):4508-4515.

## ATTIVITA' EDITORIALE

**Revisore** di lavori scientifici di ricerca di base e applicata sottoposti a riviste internazionali di sviluppo, andrologia e fisiopatologia della riproduzione ed oncologia (*Oncogene, Development, Cell Cycle, Reproduction, Stem Cells*) (Co-Editor dello special Issue *Male Germ Cells in Development & Tumors*, Int. J. Dev. Biol.)

• Fondi e finanziamenti, attività di valutazione scientifica

**Coordinatore di Unità operativa** Progetti di Ricerca di Interesse Nazionale Cofinanziati (COFIN/PRIN)

- a) 2003
- b) 2008
- c) 2011
- d) 2013
- e) 2015
- f) 2017

**Coordinatore nazionale** del programma di ricerca scientifica di rilevante interesse nazionale (COFIN/PRIN):

- a) 2005

**Coordinatore di Unità locale** del Progetto FIRB

- a) 2001

**• ATTIVITÀ DIDATTICA**

Ha insegnato o insegna le seguenti materie presso l'Università degli Studi di Roma Tor Vergata:

**Anatomia Umana** (CL T. Radiologia, T. Ortopedia, T. Cardioperfusionisti)

**Anatomia Umana** (Biotecnologie)

**Anatomia Umana** (Ingegneria Medica)

**Anatomia Umana:** Neuroanatomia, Splanchnologia (CL Medicina e Chirurgia)

**Human Anatomy I:** Locomotor and Neuroanatomy (English School of Medicine and Surgery)

Docente del Corso di Dottorato di Ricerca in Biotecnologie Applicate e Medicina Traslazionale (Università di Roma Tor Vergata)

MADRELINGUA

ITALIANA

ALTRE LINGUA

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

INGLESE	TEDESCO
Eccellente	Scolastico
Eccellente	Scolastico
Eccellente	Scolastico

**ATTIVITÀ  
VALUTAZIONE  
CONSULENZA**      **DI  
E**

**Referee** Anvur (Albo dei Revisori - VQR) e Miur (Progetti PRIN e FIRB – Futuro in Ricerca);

## Susanna Dolci

- 1) List of publications
- 2) Dolci S., Siracusa G., Eusebi F. (1985):  $\gamma$ -amino-butyric N-acid sensitivity of mouse and human oocytes. *Dev Biol.* 109:242-246. 4.4
- 3) Eusebi F., Grassi F., Fratamico G., Dolci S., Conti M., Stefanini M. (1985): Cell-to-cell communication in cultured Sertoli cells. *Pflug. Arch.* 404: 382-384. 3.6
- 4) Dolci S., Manna C., Baschieri L., Greco E., Piccione E., Pasetto N. (1985): Studio della capacita' fecondante degli spermatozoi umani mediante l'uso di ovociti di hamster privi della zona pellucida. *Pat Clin Ost Ginecol.* 13:431-438
- 5) Grassi F., Monaco L., Fratamico G., Dolci S., Jannini E.A., Conti M., Eusebi F., and M. Stefanini (1986): Putative second messenger affect cell coupling in the seminiferous tubules. *Cell Biol Int Reports.* 10: 631-639.
- 6) De Felici M., Dolci S. (1986): Cellular interactions of mouse fetal germ cells in in vitro systems. In "Current Topics in Developmental Biology" (A. Moscona and A. Monroy eds.) pp.147-162, Academic Press, London
- 7) De Felici M., Dolci S., and G. Siracusa (1987): Involvement of thiol-disulfide groups in the sensitivity of fully grown mouse oocytes to calcium-free medium. *J Exp Zool.* 243: 283-287. 1.2
- 8) Dolci S., Manna C., Piccione E., Bancheri C., Manna C. (1987): Adenosintrifosfato, reazione acrosomiale e motilita' negli spermatozoi umani. *Pat. Clin. Ost. Ginecol.* 15: 1-5.
- 9) Dolci S., Manna C., Jannini E.A., Piccione E., Pasetto N. (1988): ATP content and kinetics of acrosome reaction in human spermatozoa: Influence of various culture media and incubation time. *Andrologia* 20: 169-172
- 10) Siracusa G., De Felici M., Salustri A., Dolci S. (1988): Spontaneous hardening of the zona pellucida of the cultured mouse oocytes. In: In vitro approaches to mammalian gamete maturation and embryonic development (A. Lauria and F. Gandolfi eds.) Serovet, Roma, pp. 11-18.
- 11) De Felici M., Dolci S., Siracusa G. (1989): Influence of cumulus cell processes on oolemma permeability and lethality of isolated mouse oocytes cultured in Ca<sup>2+</sup>-free medium. *Gamete Res.* 23:1-9. 2.3
- 12) Siracusa G., De Felici M., Salustri A., Dolci S. (1989): The zona pellucida of mouse oocyte in culture. In "Unexplained infertility" ( G. Spera and L.Gnessi eds.) Serono Symposia, pp.49-55.
- 13) De Felici M., Dolci S. (1989): In vitro adhesion of mouse primordial germ cells to extracellular matrix components. *Cell Diff Dev.* 26: 87-96
- 14) Lavitrano M.L., Camaioni A., Fazio V., Dolci S., Farace M.G., C. Spadafora (1989): Sperm cells as vectors for introducing foreign DNA into eggs. Genetic transformation of mice. *Cell* 57: 717-723 28
- 15) De Felici M., Dolci S., Siracusa G. (1989): Fetal germ cells establish cell coupling with follicle cells in vitro. *Cell Diff Dev.* 28: 65-70.
- 16) Dolci S., M. De Felici (1990): A study of meiosis in chimeric mouse fetal gonads. *Development* 109: 37-40 6.5
- 17) Dolci S., Bertolami, M.V., Canipari, R., De Felici M. (1991): Involvement of carbohydrates in the hardening of the zona pellucida of mouse oocytes. *Cell Biol Int Rep* 15: 571-579. 1.2
- 18) Dolci S., Williams D.E., Ernst M.K., Resnick J., Brannan C., Lock L., Lyman S., Boswell S.C., P.J. Donovan (1991): Mast cell growth factor mediates primordial germ cell survival in culture. *Nature* 349: 802-804. 38
- 19) De Felici, M, Dolci S., Siracusa G. (1991): An increase of intracellular free Ca<sup>2+</sup> is essential for spontaneous meiotic resumption by mouse oocytes. *J Exp Zool.* 260: 401-405. 1.2
- 20) De Felici, M., Dolci S. (1991): Leukemia Inhibitory Factor sustains the survival of mouse primordial germ cells cultured on TM4 Feeder layers. *Dev Biol.* 147:281-284. 4.4
- 21) De Felici, M., Dolci S., Pesce M. (1992): Cellular and molecular aspects of mouse primordial germ cell migration and proliferation in culture. *Int J Dev Biol.* 36:205-213. 2.3
- 22) Rossi, P., Dolci, S., Albanesi, C., Grimaldi, P., Ricca, R., Geremia R. (1993): Follicle-Stimulating Hormone induction of Steel factor (SLF) in mouse Sertoli cells and stimulation of DNA synthesis in spermatogonia by soluble SLF. *Dev Biol.* 155: 68-74. 4.4
- 23) Rossi P., Dolci, S., Albanesi, C., Grimaldi, P., Geremia R. (1993): Direct evidence that the mouse sex-determining gene Sry is expressed in the somatic cells of male fetal gonads and in the germ cell line in the adult testis. *Mol. Reprod. Dev.* 34: 369-373. 2.3
- 24) De Felici, M., Dolci, S., M. Pesce (1993): Proliferation of mouse primordial germ cells in vitro: a

- key role for cAMP. *Dev Biol.* 156: 565-570. 4.4
- 25) Dolci, S., Pesce, M., De Felici M (1993): Combined action of SCF, LIF and cAMP on in vitro proliferation of mouse PGCs. *Mol Reprod Dev.* 35:134-139. 2.3
  - 26) Pesce M., Farrace MG, Piacentini M., Dolci S., De Felici M. (1994): Stem Cell Factor and leukemia inhibitory factor promote primordial germ cell survival by suppressing programmed cell death (apoptosis). *Development* 118: 1089-1094. 6.5
  - 27) Jannini E.A., Dolci S., Ullisse S., Nikodem V.M. (1994): Developmental regulation of the thyroid hormone receptor  $\alpha$  mRNA expression in rat testis. *Mol Endocrinol.* 8: 89-96. 3.4
  - 28) Dolci S., Albanesi A., Geremia R., P. Rossi (1994): Expression of the Xist gene in urogenital ridges of midgestation male embryos. *Biochem Biophys Res Commun.* 205:334-340. 2.37
  - 29) Geremia R., Albanesi C., Dolci S., Giustizieri L., Grippo P., Orlando P.A., Piscitelli D., Rossi P. (1994):C-kit receptor function and regulation by SLF in the postnatal testis. In : Cell and Molecular Biology of the Testis (M.L. Dufau, A. Fabbri and A. Isidori eds.), Frontiers in Endocrinology, Ares Serono Symposia, 5: 189-198
  - 30) Albanesi C.,Geremia R., Giorgio M., Dolci S., Sette C., and P. Rossi (1996): A cell and developmental stage specific promoter drives the expression of a truncated c-kit protein during mouse spermatid elongation. *Development* 122:1291-1302. 6.5
  - 31) Rossi P, Albanesi C., Dolci S., Giorgio M., Grimaldi, P., Piscitelli D., Pozzi L., Sorrentino V., and R. Geremia (1996): Alternative forms and functions of the c-kit receptor and its ligand during spermatogenesis: In: Cellular and Molecular Regulation of Testicular Cells (C. Desjardins, ed.) Springer Veerlag, N.Y.
  - 32) Di Stasi S., Vespasiani G., Giannantoni A., Massoud R., Dolci S., and F. Micali (1997). Electromotive delivery of mitomycinC into human bladder wall. *Cancer Res.* 57, 875-880.
  - 33) Dolci S., Grimaldi P., Geremia R., Pesce M., and P. Rossi (1997). Identification of a promoter region generating Sry circular transcripts both in germ cells from male adult mice and in male embryonal gonads. *Biol Reprod.* 57, 1128-1135. 3.4
  - 34) De Felici M., Di Carlo A., Dolci S., Pesce M. (1998). Experimental in vitro approaches to the study of mouse primordial germ cell development. In Testicular function: from gene expression to genetic manipulation. (M. Stefanini, C. Boitani, M. Galdieri R. Geremia and F. Palombi eds.) Shering Found. Workshop suppl. 3.
  - 35) Di Stasi S., Giannantoni A., Massoud R., Dolci S., Navarra P., Vespasiani G., R.L. Stephen (1999). Electromotive versus passive diffusion of mitomycin C into human bladder wall : concentration depth profiles study. *Cancer Res.* 59:4912-8. 7.5
  - 36) Viglietto G., Dolci S., Bruni P., Baldassarre G., Chiariotti L., Melillo R.M., Salvatore G., Chiappetta G., Sferratore F., Fusco A. and M. Santoro (2000). Glial cell line-derived neutrotrophic factor and neurturin can act as paracrine growth factors stimulating DNA synthesis of Ret-expressing spermatogonia. *Int J Oncol.* 16, 689-694. 2.7
  - 37) Sette C., Dolci S., Geremia R., and P. Rossi (2000). The role of stem cell factor and of alternative c-kit gene products in the establishment, maintainance and function of germ cells. *Int. J. Dev. Biol.* 44:599-608. 2.3
  - 38) Rossi P., Sette C., Dolci S., Geremia R. (2000). Role of c-kit in mammalian spermatogenesis. *J Endocrinol Invest.* 23:609-615
  - 39) Dolci S, Pellegrini M, Di Agostino S, Geremia R, Rossi P (2001).Signaling through extracellular signal-regulated kinase is required for spermatogonial proliferative response to stem cell factor. *J Biol Chem* 276:40225-40233. 4.6
  - 40) D'Amati G, di Gioia CR, Bologna M., Giordano D., Giorgi M., Dolci S., Jannini E.A. 2002. Type 5 phosphodiesterase expression in the human vagina. *Urology* 60:191-195. 2.1
  - 41) Grimaldi P., Rossi P., Dolci S., Ripamonti C.B., Geremia R. (2002). Molecular genetics of male infertility: stem cell factor/c-kit system. *Am J Reprod Immunol.* 48: 27-33.
  - 42) Dolci S., Levati L., Pellegrini M., Faraoni I., Graziani G., Di Carlo A., Geremia R. 2002.Stem cell factor activates telomerase in mouse mitotic spermatogonia and in primordial germ cells. *J Cell Sci.* 115:1643-1649.
  - 43) D'Amati G, di Gioia CR, Bologna M., Giordano D., Giorgi M., Dolci S., Jannini E.A. 2002. Type 5 phosphodiesterase expression in the human vagina. *Urology* 60:191-195. 2.3
  - 44) Grimaldi P., Rossi P., Dolci S., Ripamonti C.B., Geremia R. (2002). Molecular genetics of male infertility: stem cell factor/c-kit system. *Am J Reprod Immunol.* 48: 27-33. 2.9
  - 45) Rossi P, Dolci S, Sette C, Geremia R. 2003. Molecular mechanisms utilized by alternative c-kit gene products in the control of spermatogonial proliferation and sperm-mediated egg activation. *Andrologia* 35:71-8.
  - 46) Dolci S, Grimaldi P, Pellegrini M. (2003) Molecular biology tools for dissecting sexual behavior.. *J Endocrinol Invest.*; 26:16-19. 1.9
  - 47) Pellegrini M, Grimaldi P, Rossi P, Geremia R, Dolci S. (2003). Developmental expression of BMP4/ALK3/SMAD5 signaling pathway in the mouse testis: a potential role of BMP4 in spermatogonia differentiation. *J Cell Sci.* 116:3363-72. 5.5
  - 48) Cairns LA, Moroni E, Levantini E, Giorgetti A, Klinger FG, Ronzoni S, Tatangelo L, Tiveron C,

- De Felici M, Dolci S, Magli MC, Giglioni B, Ottolenghi S. 2003. Kit regulatory elements required for expression in developing hematopoietic and germ cell lineages. *Blood*. 102:3954-62. 11.8
- 49) Rossi P, Dolci S, Sette C, Capolunghi F, Pellegrini M, Loiarro M, Di Agostino S, Paronetto MP, Grimaldi P, Merico D, Martegani E, Geremia R. (2004). Analysis of the gene expression profile of mouse male meiotic germ cells. *Gene Expr Patterns*. 4:267-81. 2.5
- 50) Basciani S, Brama M, Mariani S, De Luca G, Arizzi M, Vesce L, Pisano C, Dolci S, Spera S, Gnessi L (2005). Imatinib Mesylate Inhibits Leydig Cell Tumor Growth: Evidence for In vitro and In vivo Activity. *Cancer Res*. 65:1897-903. 7.5
- 51) Dolci S, Belmonte A, Santone R, Giorgi M, Pellegrini M, Carosa E, Piccione E, Lenzi A, Jannini EA. (2006). Subcellular localization and regulation of type-1C and type-5 phosphodiesterases. *Biochem Biophys Res Commun*. 341:837-46. 2.3
- 52) Filipponi D, Hobbs RM, Ottolenghi S, Rossi P, Jannini EA, Pandolfi PP, Dolci S. (2007). Repression of kit expression by Plzf in germ cells. *Mol Cell Biol*. 27:6770-81. 6
- 53) Basciani S, De Luca G, Dolci S, Brama M, Arizzi M, Mariani S, Rosano G, Spera G, Gnessi L. 2008. Platelet-derived growth factor receptor beta-subtype regulates proliferation and migration of gonocytes. *Endocrinology*. 149:6226-35. 4.1
- 54) Pellegrini M, Filipponi D, Gori M, Barrios F, Lolicato F, Grimaldi P, Rossi P, Jannini EA, Geremia R, Dolci S. (2008). ATRA and KL promote differentiation toward the meiotic program of male germ cells. *Cell Cycle*. 7:3878-3888. 4
- 55) Carosa E, Castri A, Forcella C, Sebastiani G, Di Sante S, Gravina GL, Ronchi P, Cesarini V, Dolci S, Di Stasi S, Lenzi A, Jannini EA. (2014) Platelet-derived growth factor regulation of type-5 phosphodiesterase in human and rat penile smooth muscle cells. *J Sex Med*. Jul;11(7):1675-84.
- 56) Barbagallo F, Paronetto MP, Franco R, Chieffi P, Dolci S, Fry AM, Geremia R, Sette C. (2009). Increased expression and nuclear localization of the centrosomal kinase Nek2 in human testicular seminomas. *J Pathol*. 217:431-441. 7.4
- 57) De Felici M, Farini D, Dolci S. (2009) In or out stemness: comparing growth factor signalling in mouse embryonic stem cells and primordial germ cells. *Curr Stem Cell Res Ther*. 4:87-97. 2.6
- 58) Pellegrini M, Di Siena S, Claps G, Di Cesare S, Dolci S, Rossi P, Geremia R, Grimaldi P. (2010) Microgravity promotes differentiation and meiotic entry of postnatal mouse male germ cells. *PLoS One*. Feb 4;5(2):e9064. doi: 10.1371/journal.pone.0009064. 3.2
- 59) Barrios F, Filipponi D, Pellegrini M, Paronetto MP, Di Siena S, Geremia R, Rossi P, De Felici M, Jannini EA, Dolci S. (2010) Opposing effects of retinoic acid and FGF9 on Nanos2 expression and meiotic entry of mouse germ cells. *J Cell Sci*. 15;123(Pt 6):871-80 5.5
- 60) Pellegrini M, Claps G, Orlova VV, Barrios F, Dolci S, Geremia R, Rossi P, Rossi G, Arnold B, Chavakis T, Feigenbaum L, Sharan SK, Nussenzweig A. (2011) Targeted JAM-C deletion in germ cells by Spo11-controlled Cre recombinase. *J Cell Sci*. 124:91-9. 5.5
- 61) Spitalieri P, Cortese G, Pietropolli A, Filareto A, Dolci S, Klinger FG, Giardina E, Di Cesare S, Bernardini L, Lauro D, Scaldaferri ML, Citro G, Novelli G, De Felici M, Sangiuolo F. (2010) Identification of multipotent cytotrophoblast cells from human first trimester chorionic villi. *Cloning Stem Cells*. 2009 Dec;11(4):535-56. Erratum in: *Cloning Stem Cells*. Feb;12(1):115. Scaldaferri, H Lucia [corrected to Scaldaferri, M Lucia]. 2.6
- 62) Puvarel S, Barrick C, Dolci S, Coppola V, Tessarollo L. (2011) RanBPM is essential for mouse spermatogenesis and oogenesis. *Development*. Jun;138(12):2511-21 6.6
- 63) Barrios F, Filipponi D, Campolo F, Gori M, Bramucci F, Pellegrini M, Ottolenghi S, Rossi P, Jannini EA, Dolci S. (2012) SOHLH1 and SOHLH2 control Kit expression during postnatal male germ cell development. *J Cell Sci*. 125:1455-64. 5.6
- 64) Di Siena S, Campolo F, Rossi P, Jannini EA, Dolci S, Pellegrini M. UV and genotoxic stress induce ATR relocalization in mouse spermatocytes. *Int J Dev Biol*. 2013;57(2-4):281-7
- 65) De Felici M, Dolci S. (2013) From testis to teratomas: a brief history of male germ cells in mammals. *Int J Dev Biol*. 57:115-21. 2
- 66) De Felici M, Dolci S. (2013) Preface. Male germ cells and cancer: a connection among pluripotency, differentiation and stem cell biology. *Int J Dev Biol*. 57:101-3. 2.3
- 67) Rossi P, Dolci S. (2013) Paracrine mechanisms involved in the control of early stages of Mammalian spermatogenesis. *Front Endocrinol (Lausanne)*. 4:181.
- 68) Tentori L, Leonetti C, Muzi A, Dorio AS, Porru M, Dolci S, Campolo F, Vernole P, Lacal PM, Praz F, Graziani G. (2013) Influence of MLH1 on colon cancer sensitivity to poly(ADP-ribose) polymerase inhibitor combined with irinotecan. *Int J Oncol*. 43:210-8. 2.3
- 69) Tentori L, Muzi A, Dorio AS, Dolci S, Campolo F, Vernole P, Lacal PM, Praz F, Graziani G. (2013) MSH3 expression does not influence the sensitivity of colon cancer HCT116 cell line to oxaliplatin and poly(ADP-ribose) polymerase (PARP) inhibitor as monotherapy or in combination. *Cancer Chemother Pharmacol*. 72:117-25. 2.7
- 70) Campolo F, Gori M, Favaro R, Nicolis S, Pellegrini M, Botti F, Rossi P, Jannini EA, Dolci S (2013) Essential role of Sox2 for the establishment and maintenance of the germ cell line. *Stem Cells*. 31:1408-21. 7.8

- 71) Carosa E, Castri A, Forcella C, Sebastiani G, Di Sante S, Gravina GL, Ronchi P, Cesarini V, Dolci S, Di Stasi S, Lenzi A, Jannini EA. (2014) Platelet-derived growth factor regulation of type-5 phosphodiesterase in human and rat penile smooth muscle cells. *J Sex Med.* 11:1675-84. 3.1
- 72) Faraoni I, Compagnone M, Lavorgna S, Angelini DF, Cencioni MT, Piras E, Panetta P, Ottone T, Dolci S, Venditti A, Graziani G, Lo-Coco F. (2015) BRCA1, PARP1 and γH2AX in acute myeloid leukemia: Role as biomarkers of response to the PARP inhibitor olaparib. *Biochem Biophys Acta.* 1852:462-72. 4,9
- 73) Tassinari V, Campolo F, Cesarini V, Todaro F, Dolci S, Rossi P. (2015) Fgf9 inhibition of meiotic differentiation in spermatogonia is mediated by Erk-dependent activation of Nodal-Smad2/3 signaling and is antagonized by Kit Ligand. *Cell Death Dis.* 12;6:e1688 5.2
- 74) Desimio MG, Campolo F, Dolci S, De Felici M, Farini D (2015) SOHLH1 and SOHLH2 directly down-regulate stimulated by retinoic acid 8 (STRA8) expression. *Cell Cycle.* 14:1036-45. 4.
- 75) Dolci S, Campolo F, De Felici M. (2015) Gonadal development and germ cell tumors in mouse and humans. *Semin Cell Dev Biol.* 45:114-23. 5.9
- 76) Cesarini V., Martini M., Ricci Vitiani L., Gravina GG., Di Agostino S., Graziani G., D'Alessandris Q.A., Pallini P., Larocca L.M., Rossi P., Jannini E.A., and S. Dolci (2016). Type 5 phosphodiesterase regulates glioblastoma multiforme aggressiveness and clinical outcome. *Oncotarget*, in press.
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