Prof. Enrico De Smaele

Curriculum Vitae

Part I – General Information

Full Name	Enrico De Smaele
Citizenship	Italian
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,…)
University graduation	1994	Tor Vergata University of Rome	Master degree in Biological Sciences, "*Summa cum laude*"
Post-graduate studies	1995	Tor Vergata University of Rome. Department of Experimental Medicine and Biochemical Sciences.	1 year Post-graduate internship (Tirocinio post laurea)
State exam (esame di Stato)	1995	Tor Vergata University	state examination for the qualification to the profession of biologist
Specialization	1999	Tor Vergata University of Rome. Specialization school in Microbiology and Virology.	Specialization in Microbiology and Virology, *"Summa cum laude"*
PhD	2005	Sapienza University of Rome. PhD program in Endocrinology and Molecular Medicine.	PhD degree in Endocrinology and Molecular Medicine

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2012	present	"La Sapienza" University of Rome, Italy, Deparment of Experimental Medicine	Associate Professor MED/46
12/2020	present	Sapienza University, Research and Services Center for Preclinical Experimentation and Animal Welfare (SPBA)	Member of the Executive Committee
2016	present	"La Sapienza" University of Rome, Departments of Experimental Medicine and Molecular Medicine	Co-responsible for the Animal Welfare
2014	present	"La Sapienza" University of Rome, Departments of Experimental Medicine and Molecular Medicine	Member of the Animal Welfare Body (OPBA) for the animal facility of the Departments of Experimental Medicine and Molecular Medicine
2018	2019	"La Sapienza" University of Rome	Member of the University Research Commission "Commissione Ricerca di Ateneo". D.R. 1348/2018 del 24/05/2018 – incarico biennale 2018-2019.
2011	2012	"La Sapienza" University of Rome, Faculty of Medicine and Surgery	Elected representative of the Assistant Professors in the Council of the Faculty of Medicine and Dentistry

2006	2012	"La Sapienza" University of Rome, Italy, Deparment of Experimental Medicine	Assistant Professor MED/04 ("Ricercatore")
02/1998	12/2001	"Gwen Knapp Center for Immunology" and "Ben May Institute for Cancer Research", University of Chicago, Chicago IL, USA	Research Associate

IIIB – Other Appointments

Start	End	Institution	Position
2017	2026	Abilitazione Scientifica Nazionale (Bando 2016 D.D. 1532/2016)	I fascia SC 06/A2 – MED/04
2014	2023	Abilitazione Scientifica Nazionale (Bando 2012 D.D. 222/2012)	I fascia SC 06/N1 – MED/46
2012	Present	University of Rome La Sapienza, Department of Experimental Medicine	P.I. of the Laboratory of Experimental Oncology
12/2014	12/2015	Consorzio PitecnoBio	"Responsabile Scientifico" (scientific manager) for the project "PON Ricerca e competitività PON01_02464" (approved budget 4'963'000 euro)
2018	Present	AICC Italian Association of Cell Cultures	Elected Member of the Board of Directors

Part IV – Teaching experience

Year	Institution	Lecture/Course
2013-present	Faculty of Medicine and Dentistry, University of Rome "La Sapienza Medicine and Surgery in English degree, course "F	Professor of Pathology in the course of "General Pathology and Pathophysiology I and II",
2013-present	Faculty of Medicine and Dentistry, University of Rome "La Sapienza Medicine and Surgery in English degree, course "F	Coordinator of the courses of the II semester, III year
2012-present	Faculty of Medicine and Dentistry, University of Rome "La Sapienza Master's Degree Course in Nursing Sciences "A".	Professor of General Pathology in the integrated course "Care Processes of the Biomedical Area"(coordinator)
2011-present	Faculty of Medicine and Surgery, University of Rome "La Sapienza. Degree program in "Techniques for the prevention in the environment and in the workplace" Course "C".	Professor of Pathology in the Integrated course "Morphofunctional Sciences"
2011 - present	Faculty of Medicine and Surgery, University of Rome "La Sapienza	Board member of the PhD program in "Molecular Medicine"
2010-present	"La Sapienza" University of Rome, Faculty of Pharmacy and Medicine. Medicine and Surgery degree, course "A	Professor of Pathology in the course of "General Pathology and Pathophysiology I and II"
2011-2015	Faculty of Medicine and Surgery, University of Rome "La Sapienza Degree program in Nursing, Course "Z	Professor of Pathology in the Integrated course "Physiopathological bases of diseases"
2007-2011	Faculty of Medicine and Surgery, University of Rome "La Sapienza	Board member of the international PhD program in "Epidemiology and Molecular Pathology"
2006-2011	Faculty of Medicine and Surgery, University of Rome "La Sapienza. Degree program in Nursing, "Z"	Professor of Pathology in the integrated course: "General Pathology and Microbiology".

2007/2008-2008/2009	Faculty of Medicine and Surgery, University of Rome "La Sapienza. Medicine and Surgery degree A	Teaching for elective internship in Molecular Oncology in the course of “General Pathology and Pathophysiology”. Member of the Examination Board.

Part V - Society memberberships, Awards and Honors

Year	Title
2017	Italian Society of Pathology and Translational Medicine (Sipmet) membership
2017	Italia Association of Cell Culture (AICC) membership
2018	Italia Association of Cell Culture (AICC) member of the Board of Directors
2018	Founding member of the S.I.R.T.E.P.S. Society (Società Italiana per la Ricerca Translazionale e le Professioni Sanitarie - Italian Society for Translational Research and Health Professions)
2002	Awarded a one-year fellowship from MURST (Italian Ministry of the University and Scientific Research). Progetto Giovani Ricercatori 2002 (Young Researcher Program)
2005-2006	Awarded a Two-Years Research Fellowship from the FIRC (Cancer Research Italian Foundation).

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2002	"Generation of animal models for the study of the activation of the transcription complex NF-kB" [PI]	Young Researcher Program 2002 (Ministry of University and Research)	6’500 euro
2007	"Identification of novel transcriptional targets of the Sonic Hedgehog signaling in mouse models and human medulloblastoma" (first year) [PI]	Ateneo.Federato. SC.P.P (Sapienza University Scientific Research Fund) 2007	8’215 euro
2008	"Identification of novel transcriptional targets of the Sonic Hedgehog signaling in mouse models and human medulloblastoma" (second year) [PI]	Ateneo.Federato. SC.P.P (Sapienza University Scientific Research Fund) 2008	2’400 euro
2009	Identification and characterization of KCTD21, a new modulator of the Hedgehog pathway in cerebellum and medulloblastoma. [PI]	Ateneo.Federato. SC.P.P (Sapienza University Scientific Research Fund) 2009	2’400 euro
2010	The purpose of this project is to test the feasibility of an in vitro screening of new compounds for hedgehog inhibitors on cultured tumour stem cells. [PI]	FARI, Sapienza University	7’500 euro
2011-2013	Cross-talk between NF-kappaB and Sonic Hedgehog pathways in tumorigenesis in vivo: therapeutic potential of Hedgehog inhibitors [PI, scientific coordinator]	Ministry of University and Research, PRIN program year 2009	151’200 euro
2011	Characterization of the role of the Hedgehog, Notch and NF-kappaB pathways in the development and in the microenvironment of brain tumors [PI]	Sapienza University Funding “Acquisition of medium and large scientific equipment”	45’000 euro
2014	"Role of the KCASH family of oncosuppressors in development and tumorigenesis. [PI]	Sapienza University Funding “Ricerche UNIVERSITARIE”	26’075 euro
2015	"In vivo characterization of Numb’s role	Sapienza University Research	10’000 euro

	in neuronal differentiation and tumorigenesis" [PI]	Funding "Ricerche UNIVERSITARIE"	
2020	Study of the role of the oncosuppressor KCASH2 in the regulation of mitotic checkpoint [PI]	Sapienza University research Funding "Ricerche UNIVERSITARIE"	33'787 euro
2020	2021 Exosome Meeting: "Cell to cell delivery in cancer and therapy: a matter of carriers and messages" [PI]	Sapienza University Funding for "Conferences and workshop""	3'000 euro

Part VII – Research Activities

Keywords	Brief Description
Cancer Hedgehog Pathway Signal Transduction KCASH2 KCTD11 GADD45beta NF-kappaB Medulloblastoma miRNA	**The main research activities can be subdiveded in two major topics:** **1) Study of the mechanisms which regulate the potentially oncogenic Hedgehog pathway in cerebellum and in medulloblastoma, and search for potential therapeutical targets**: -Identification of th KCTD11, a new modulator of the Hh pathway; -Identification of novel Hedgehog target genes (Nhlh1 and Insm1), involved in cerebellar development and tumorigenesis; -Analysis of miRNAs expression during cerebellar development and in medulloblastoma. Use of miRNAs expression profiling for classification of medulloblastoma subtypes; identification of miRNAs targeting the Hedgehog pathway; - identification and characterization of miRNAs involved in Hedgehog modulation and in cancer cell stemness; -Study of the interaction between the Numb/Notch and Hedgehog pathways. Identification of the mechanism through which the Numb protein promotes Gli1 ubiquitination and degradation; -Identification and characterization of the new KCASH family (KCTD11, KCTD6 and KCTD21) of Hedegehog modulators. Identification of new KCASH2 interactors: KCTD15 is a positive modulator of KCASH2 protein stability; Generation and characterization of the KCASH2 KO mouse model: the role of KCASH2 in cerebellar development, and in mouse fertility; Study of the role of KCASH2 in the modulation of cell cycle and chromosomal instability/aneuploidy. Study of KCASH2 promoter and analysis of transcriptional modulators. **2) Study on the role played by the transcription factor NF-kB in cell survival and cancer:** - characterization of the novel antiapoptotic gene Gadd45β, regulated by NF-kB; - development of therapeutic molecules able to target Gadd45β; - role of ROS in the regulation of apoptosis by NF-kB, and identification of the gene FHC involved in this regulation; - role of NF-kB in the control of energy homeostasis by regulation of mitochondrial respiration; - identification of the antiapoptotic pathway regulated by the gD protein from the herpes simplex1 virus envelope, through NF-kappaB activation Search for potential target genes for antiviral and anticancer therapies The research on the Gadd45β protein has led to two patent applications: ("Methods and compositions for modulating apoptosis" US patent application US2004/0121463 ed international (WO/2003/028659). Furthermore, several collaborative projects have been developed with other national and international research groups, as demonstrated by scientific publications below.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	68	Scopus or WOS	1997	present
Papers [national]				
Books [scientific]				
Books [teaching]				

The research on the Gadd45β protein has led to two patent applications: ("Methods and compositions for modulating apoptosis" US patent application US2004/0121463 ed international WO/2003/028659).

Total products	68 (Scopus)	
Total Impact factor (calculated on the publication years)	522,16 (WOS and Scopus)	
Average IF per product (68)	7,68 (WOS and Scopus)	
Impact factor last ten years (2011-20)	235,64	
Total Citations	4607 (Scopus)	
Average Citations per Product	67,75 (Scopus)	
Hirsch (H) index	34 (Scopus e WOS)	
Normalized H index*	2.27	
Parameters ASN 18-20:		Param. da commissario 06/A2:
Number of papers - last 10 years	42	38
Citations last - 15 years	2765	1782
H-index last - 15 years	28	25

*H index divided by the academic seniority (Ph.D in 2005).

Part IX– Selected Publications

Within the 16 selected publications:
Total IF: 202,09
Total citations: 2706
First/Last author: 8
- 7 publications con IF>5
- First/last author total IF: 72,54 avg 9,07
- First/last author citations: 1440 avg citations 180.

[Please note: citations are indicated from both Scopus and ISI's Web of Science (ISI) databases]
Reported IF is from the year of publication

1. Sorino C, Catena V, Bruno T, De Nicola F, Scalera S, Bossi G, Fabretti F, Mano M, **De Smaele E**, Fanciulli M, Iezzi S. Che-1/AATF binds to RNA polymerase I machinery and sustains ribosomal RNA gene transcription. **Nucleic Acids Res**. 2020 Jun 19;48(11):5891-5906. doi: 10.1093/nar/gkaa344.
   Time cited: 1 (From Scopus)
   IF: 11,50

2. Spiombi E, Angrisani A, Fonte S, De Feudis G, Fabretti F, Cucchi D, Izzo M, Infante P, Miele E, Po A, Di Magno L, Magliozzi R, Guardavaccaro D, Maroder M, Canettieri G, Giannini G, Ferretti E, Gulino A, Di Marcotullio L, Moretti M, **De Smaele E**. KCTD15 inhibits the Hedgehog pathway in Medulloblastoma cells by increasing protein levels of the oncosuppressor KCASH2. **Oncogenesis**. 2019 Nov 4;8(11):64. doi: 10.1038/s41389-019-0175-6.
   Time cited: 4 (From Scopus)
   IF: 6,11

3. Infante P, Faedda R, Bernardi F, Bufalieri F, Lospinoso Severini L, Alfonsi R, Mazzà D, Siler M, Coni S, Po A, Petroni M, Ferretti E, Mori M, **De Smaele E**, Canettieri G, Capalbo C, Maroder M, Screpanti I, Kool M, Pfister SM, Guardavaccaro D, Gulino A, Di Marcotullio L. Itch/β-arrestin2-dependent non- proteolytic ubiquitylation of SuFu controls Hedgehog signalling and medulloblastoma tumorigenesis. **Nat Commun**. 2018 Mar 7;9(1):976. doi: 10.1038/s41467-018-03339-0.
   Time cited: 22 (From Scopus)
   IF: 11,88

4. ▪ Infante P, Mori M, Alfonsi R, Ghirga F, Aiello F, Toscano S, Ingallina C, Siler, M, Cucchi D, Po A, Miele E, D'Amico D, Canettieri G, **De Smaele E**, Ferretti E, Screpanti I, Uccello Barretta G, Botta M, Botta B, Gulino A, Di Marcotullio L. Gli1/DNA interaction is a druggable target for Hedgehog-dependent tumors DOI 10.15252/embj.201489213 **EMBO J**. 2015 Jan 13;34(2):200-17.
   Time cited: 100 (From Scopus)
   IF: 9,64

5. ▪ Garg N, Po A, Miele E, Campese AF, Begalli F, Silvano M, Infante P, Capalbo C, **De Smaele E**, Canettieri G, Di Marcotullio L, Screpanti I, Ferretti E, Gulino A. microRNA-17-92 cluster is a direct Nanog target and controls neural stem cell through Trp53inp1. **EMBO J**. 2013 Oct 30;32(21):2819-32. doi: 10.1038/emboj.2013.214.
   Time cited: 48 (From Scopus)
   IF: 10,75

6. ▪ Mauro C, Leow SC, Anso E, Rocha S, Thotakura AK, Tornatore L, Moretti M, **De Smaele E**, Beg AA, Tergaonkar V, Chandel NS, Franzoso G. NF-κB controls energy homeostasis and metabolic adaptation by upregulating mitochondrial respiration. **Nature Cell Biol**. 2011; 13:1272-9.
   Time cited: 190 (From Scopus-WOS)
   IF: 19,49

7. ▪ **De Smaele E**, Di Marcotullio L, Moretti M, Pelloni M, Occhione MA, Infante P, Cucchi D, Greco A, Pietrosanti L, Todorovic J, Coni S, Canettieri G, Ferretti E, Bei R, Maroder M, Screpanti I, Gulino A. Identification and characterization of KCASH2 and KCASH3, 2 novel Cullin3 adaptors suppressing histone deacetylase and Hedgehog activity in medulloblastoma. **Neoplasia**. 2011; 13:374-85.
   Time cited: 57 (From Scopus)
   IF: 5,95

8. ▪ Canettieri G, Di Marcotullio L, Greco A, Coni S, Antonucci L, Infante P, Pietrosanti L, **De Smaele E**, Ferretti E, Miele E, Pelloni M, De Simone G, Pedone EM, Gallinari P, Giorgi A, Steinkühler C, Vitagliano L, Pedone C, Schininà ME, Screpanti I, Gulino A. Histone deacetylase and Cullin3-REN(KCTD11) ubiquitin ligase interplay regulates Hedgehog signalling through Gli acetylation. **Nature Cell Biol**. 2010; 12:132-42.
Time cited: 219 (From WOS)
IF: 19,41

9. ▪ **De Smaele E**, Ferretti E, Gulino A. MiRNAs as biomarkers for CNS cancer and other disorders. **Brain Research**, 2010; 1338:100-111.
Time cited: 99 (From Scopus)
IF: 2,62

10. ▪ Ferretti E*, **De Smaele E***, Po A, Di Marcotullio L, Tosi E, Espinola MS, Di Rocco C, Riccardi R, Giangaspero F, Farcomeni A, Nofroni I, Laneve P, Gioia U, Caffarelli E, Bozzoni I, Screpanti I, Gulino A. MicroRNA profiling in human medulloblastoma**. Int J Cancer**. 2009; 124:568-77.
*Equal contributors.
Time cited: 238 (From Scopus)
IF: 5,14

11. ▪ Ferretti E*, **De Smaele E***, Miele E, Laneve P, Po A, Pelloni M, Paganelli A, Di Marcotullio L, Caffarelli E, Screpanti I, Bozzoni I, Gulino A. Concerted microRNA control of Hedgehog signalling in cerebellar neuronal progenitor and tumour cells. **EMBO J**. 2008; 27:2616-27.
*Equal contributors.
Time cited: 249 (From Scopus)
IF: 8,29

12. ▪ **De Smaele E**., C. Fragomeli, E. Ferretti, M. Pelloni, A. Po, G. Canettieri, S. Coni, L. Di Marcotullio, A. Greco, M. Moretti, C. Di Rocco, S. Pazzaglia, M. Maroder, I. Screpanti, G. Giannini, A. Gulino. An integrated approach identifies Nhlh1 and Insm1 as Sonic-Hedgehog-regulated genes in developing cerebellum and medulloblastoma. **Neoplasia**, 2008; 10:89-98.
Time cited: 43 (From WOS)
IF: 5,20

13. ▪ Di Marcotullio L, Ferretti E, Greco A, **De Smaele E**, Po A, Sico MA, Alimandi M, Giannini G, Maroder M, Screpanti I, Gulino A. Numb is a suppressor of Hedgehog signaling and targets Gli1 for Itch-dependent ubiquitination. **Nature Cell Biology**. 2006; 8:1415-23.
Time cited: 215 (From Scopus)
IF: 18,49

14. ▪ Pham C.G., Bubici C., Zazzeroni F., Papa S., Jones J., Alvarez K., Jayawardena S., **De Smaele E**., Cong R., Beaumont C., Torti F.M., Torti S.V., Franzoso G. Ferritin Heavy Chain Upregulation by NF-kappaB Inhibits TNFalpha-Induced Apoptosis by Suppressing Reactive Oxygen Species. **Cell**. 2004; 119:529-42.
Time cited: 471 (From Scopus)
IF: 28,39

15. ▪ *Di Marcotullio L., *Ferretti E., ***De Smaele E**., Argenti B., Mincione C., Zazzeroni F., Gallo R., Masuelli L., Napolitano M., Maroder M., Modesti A., Giangaspero F., Screpanti I., Alesse E., Gulino A. REN(KCTD11) is a suppressor of Hedgehog signaling and is deleted in human medulloblastoma. **Proc Natl Acad Sci U S A**. 2004; 101:10833-8.
*equal contributors
Time cited: 148 (From Scopus)
IF: 10,45

16. ▪ **De Smaele E**., Zazzeroni F., Papa S., Nguyen D.U., Jin R., Jones J., Cong R., and Franzoso G. Induction of gadd45β by NF-kB down-regulates pro-apoptotic JNK signaling. **Nature**. 2001; 414: 308-13.
Time cited: 629 (From Scopus)
IF: 28,00
Lavoro oggetto di:
***.News and Views: 2001. Nature, 414:265-266.**
***.Highlights: 2001. Nature Reviews in Molecular Cell Biology 2: 875.**

Part X – All Publications

1. ▪Coni S, Serrao SM, Yurtsever ZN, Di Magno L, Bordone R, Bertani C, Licursi V, Ianniello Z, Infante P, Moretti M, Petroni M, Guerrieri F, Fatica A, Macone A, **De Smaele E**, Di Marcotullio L, Giannini G, Maroder M, Agostinelli E, Canettieri G. Blockade of EIF5A hypusination limits colorectal cancer growth by inhibiting MYC elongation. **Cell Death Dis**. 2020 Dec 10;11(12):1045. doi: 10.1038/s41419-020-03174-6.
   Time cited: 0 (From Scopus)
   IF: 6,30

2. Belisario DC, Kopecka J, Pasino M, Akman M, **De Smaele E**, Donadelli M, Riganti C. Hypoxia Dictates Metabolic Rewiring of Tumors: Implications for Chemoresistance. **Cells**. 2020 Dec 4;9(12):2598. doi: 10.3390/cells9122598.
   Time cited: 0 (From Scopus)
   IF: 4,37

3. Miele E, Po A, Mastronuzzi A, Carai A, Besharat ZM, Pediconi N, Abballe L, Catanzaro G, Sabato C, **De Smaele E**, Canettieri G, Di Marcotullio L, Vacca A, Mai A, Levrero M, Pfister SM, Kool M, Giangaspero F, Locatelli F, Ferretti E. Downregulation of miR-326 and its host gene β-arrestin1 induces pro-survival activity of E2F1 and promotes medulloblastoma growth. **Mol Oncol**. 2020 Sep 13. doi: 10.1002/1878-0261.12800.
   Time cited: 0 (From Scopus)
   IF: 6,57

4. Po A, Citarella A, Catanzaro G, Besharat ZM, Trocchianesi S, Gianno F, Sabato C, Moretti M, **De Smaele E**, Vacca A, Fiori ME, Ferretti E. Hedgehog-GLI signalling promotes chemoresistance through the regulation of ABC transporters in colorectal cancer cells. **Sci Rep**. 2020 Aug 19;10(1):13988. doi: 10.1038/s41598-020-70871-9.
   Time cited: 0 (From Scopus)
   IF: 4,00

5. Sorino C, Catena V, Bruno T, De Nicola F, Scalera S, Bossi G, Fabretti F, Mano M, **De Smaele E**, Fanciulli M, Iezzi S. Che-1/AATF binds to RNA polymerase I machinery and sustains ribosomal RNA gene transcription. **Nucleic Acids Res**. 2020 Jun 19;48(11):5891-5906. doi: 10.1093/nar/gkaa344.
   Time cited: 1 (From Scopus)
   IF: 11,50

6. Di Martino MT, Meschini S, Scotlandi K, Riganti C, **De Smaele E**, Zazzeroni F, Donadelli M, Leonetti C, Caraglia M. From single gene analysis to single cell profiling: a new era for precision medicine. **J Exp Clin Cancer Res**. 2020 Mar 5;39(1):48. doi: 10.1186/s13046-020-01549-3.
   Time cited: 1 (From Scopus)
   IF: 7,07

7. Di Magno L, Manni S, Di Pastena F, Coni S, Macone A, Cairoli S, Sambucci M, Infante P, Moretti M, Petroni M, Nicoletti C, Capalbo C, **De Smaele E**, Di Marcotullio L, Giannini G, Battistini L, Goffredo BM, Iorio E, Agostinelli E, Maroder M, Canettieri G. Phenformin Inhibits Hedgehog-Dependent Tumor Growth through a Complex I-Independent Redox/Corepressor Module. **Cell Rep**. 2020 Feb 11;30(6):1735-1752.e7. doi: 10.1016/j.celrep.2020.01.024.
   Time cited: 6 (From Scopus)
   IF: 8,11

8. Petroni M, Sahùn Roncero M, Ramponi V, Fabretti F, Nicolis Di Robilant V, Moretti M, Alfano V, Corsi A, De Panfilis S, Giubettini M, Di Giulio S, Capalbo C, Belardinilli F, Coppa A, Sardina F, Colicchia V, Pedretti F, Infante P, Cardinali B, Tessitore A, Canettieri G, **De Smaele E**, Giannini G. SMO-M2 mutation does not support cell-autonomous Hedgehog activity in cerebellar granule cell precursors. **Sci Rep**. 2019 Dec 23;9(1):19623. doi: 10.1038/s41598-019-56057-y.
   Time cited: 1 (From Scopus)
   IF: 4,01.

9. Spiombi E, Angrisani A, Fonte S, De Feudis G, Fabretti F, Cucchi D, Izzo M, Infante P, Miele E, Po A, Di Magno L, Magliozzi R, Guardavaccaro D, Maroder M, Canettieri G, Giannini G, Ferretti E, Gulino A, Di

Marcotullio L, Moretti M, **De Smaele E**. KCTD15 inhibits the Hedgehog pathway in Medulloblastoma cells by increasing protein levels of the oncosuppressor KCASH2. **Oncogenesis**. 2019 Nov 4;8(11):64. doi: 10.1038/s41389-019-0175-6.
Time cited: 4 (From Scopus)
IF: 6,11

10. Scicchitano S, Giordano M, Lucchino V, Montalcini Y, Chiarella E, Aloisio A, Codispoti B, Zoppoli P, Melocchi V, Bianchi F, **De Smaele E**, Mesuraca M, Morrone G, Bond HM. The stem cell-associated transcription co-factor, ZNF521, interacts with GLI1 and GLI2 and enhances the activity of the Sonic hedgehog pathway. **Cell Death Dis**. 2019 Sep 26;10(10):715. doi: 10.1038/s41419-019-1946-x.
Time cited: 4 (From Scopus)
IF: 6,30

11. Bufalieri F, Infante P, Bernardi F, Caimano M, Romania P, Moretti M, Lospinoso Severini L, Talbot J, Melaiu O, Tanori M, Di Magno L, Bellavia D, Capalbo C, Puget S, **De Smaele E**, Canettieri G, Guardavaccaro D, Busino L, Peschiaroli A, Pazzaglia S, Giannini G, Melino G, Locatelli F, Gulino A, Ayrault O, Fruci D, Di Marcotullio L. ERAP1 promotes Hedgehog-dependent tumorigenesis by controlling USP47-mediated degradation of βTrCP. **Nat Commun**. 2019 Jul 24;10(1):3304. doi: 10.1038/s41467-019-11093-0.
Time cited: 9 (From Scopus)
IF: 12,12

12. Pediconi N, Salerno D, Lupacchini L, Angrisani A, Peruzzi G, **De Smaele E**, Levrero M, Belloni L. EZH2, JMJD3, and UTX epigenetically regulate hepatic plasticity inducing retro-differentiation and proliferation of liver cells. **Cell Death Dis**. 2019 Jul 8;10(7):518. doi: 10.1038/s41419-019-1755-2.
Time cited: 4 (From Scopus)
IF: 6,30

13. Antonucci L, Di Magno L, D'Amico D, Manni S, Serrao SM, Di Pastena F, Bordone R, Yurtsever ZN, Caimano M, Petroni M, Giorgi A, Schininà ME, Yates Iii JR, Di Marcotullio L, **De Smaele E**, Checquolo S, Capalbo C, Agostinelli E, Maroder M, Coni S, Canettieri G. Mitogen-activated kinase kinase kinase 1 inhibits hedgehog signaling and medulloblastoma growth through GLI1 phosphorylation. **Int J Oncol**. 2019 Feb;54(2):505-514. doi: 10.3892/ijo.2018.4638.
Time cited: 5 (From Scopus)
IF: 3,90

14. Abballe L, Mastronuzzi A, Miele E, Carai A, Besharat ZM, Moretti M, **De Smaele E**, Giangaspero F, Locatelli F, Ferretti E, Po A. Numb Isoforms Deregulation in Medulloblastoma and Role of p66 Isoform in Cancer and Neural Stem Cells. **Front Pediatr**. 2018 Nov 1;6:315. doi: 10.3389/fped.2018.00315.
Time cited: 3 (From Scopus)
IF: 2,63

15. Po A, Abballe L, Sabato C, Gianno F, Chiacchiarini M, Catanzaro G, **De Smaele E**, Giangaspero F, Ferretti E, Miele E, Besharat ZM. Sonic Hedgehog Medulloblastoma Cancer Stem Cells Mirnome and Transcriptome Highlight Novel Functional Networks. **Int J Mol Sci**. 2018 Aug 8;19(8):2326. doi: 10.3390/ijms19082326.
Time cited: 9 (From Scopus)
IF: 4,18

16. Infante P, Faedda R, Bernardi F, Bufalieri F, Lospinoso Severini L, Alfonsi R, Mazzà D, Siler M, Coni S, Po A, Petroni M, Ferretti E, Mori M, **De Smaele E**, Canettieri G, Capalbo C, Maroder M, Screpanti I, Kool M, Pfister SM, Guardavaccaro D, Gulino A, Di Marcotullio L. Itch/β-arrestin2-dependent non- proteolytic ubiquitylation of SuFu controls Hedgehog signalling and medulloblastoma tumorigenesis. **Nat Commun**. 2018 Mar 7;9(1):976. doi: 10.1038/s41467-018-03339-0.
Time cited: 22 (From Scopus)
IF: 11,88

17. Besharat ZM, Abballe L, Cicconardi F, Bhutkar A, Grassi L, Le Pera L, Moretti M, Chinappi M, D'Andrea D, Mastronuzzi A, Ianari A, Vacca A, **De Smaele E**, Locatelli F, Po A, Miele E, Ferretti E. Foxm1 controls a pro-stemness microRNA network in neural stem cells. **Sci Rep**. 2018 Feb 23;8(1):3523. doi: 10.1038/s41598-018-21876-y.
Time cited: 15 (From Scopus)

IF: 4,01

18. Miele E, Po A, Begalli F, Antonucci L, Mastronuzzi A, Marras CE, Carai A, Cucchi D, Abballe L, Besharat ZM, Catanzaro G, Infante P, Di Marcotullio L, Canettieri G, **De Smaele E**, Screpanti I, Locatelli F, Ferretti E. β-arrestin1-mediated acetylation of Gli1 regulates Hedgehog/Gli signaling and modulates self-renewal of SHH medulloblastoma cancer stem cells. **BMC Cancer**. 2017 Jul 17;17(1):488. doi: 10.1186/s12885-017-3477-0.
Time cited: 30 (From Scopus)
IF: 3,15

19. Po A, Silvano M, Miele E, Capalbo C, Eramo A, Salvati V, Todaro M, Besharat ZM, Catanzaro G, Cucchi D, Coni S, Di Marcotullio L, Canettieri G, Vacca A, Stassi G, **De Smaele E**, Tartaglia M, Screpanti I, De Maria R, Ferretti E. Noncanonical GLI1 signaling promotes stemness features and in vivo growth in lung adenocarcinoma. **Oncogene**. 2017 Aug 10;36(32):4641-4652. doi: 10.1038/onc.2017.91.
Time cited: 35 (From Scopus)
IF: 6,85

20. Coni S, Mancuso AB, Di Magno L, Sdruscia G, Manni S, Serrao SM, Rotili D, Spiombi E, Bufalieri F, Petroni M, Kusio-Kobialka M, **De Smaele E**, Ferretti E, Capalbo C, Mai A, Niewiadomski P, Screpanti I, Di Marcotullio L, Canettieri G. Selective targeting of HDAC1/2 elicits anticancer effects through Gli1 acetylation in preclinical models of SHH Medulloblastoma. **Sci Rep**. 2017 Mar 9;7:44079. doi: 10.1038/srep44079
Time cited: 30 (From Scopus)
IF: 4,12

21. Masuelli L, Benvenuto M, Di Stefano E, Mattera R, Fantini M, De Feudis G, **De Smaele E**, Tresoldi I, Giganti MG, Modesti A, Bei R. Curcumin blocks autophagy and activates apoptosis of malignant mesothelioma cell lines and increases the survival of mice intraperitoneally transplanted with a malignant mesothelioma cell line. **Oncotarget**. 2017 Jan 30. doi: 10.18632/oncotarget.14907.
Time cited: 35 (From Scopus)
IF: 5,17

22. Heride C, Rigden DJ, Bertsoulaki E, Cucchi D, **De Smaele E**, Clague MJ, Urbé S. The centrosomal deubiquitylase USP21 regulates Gli1 transcriptional activity and stability. **J Cell Sci**. 2016 Nov 1;129(21):4001-4013.
Time cited: 20 (From Scopus)
IF: 4,43

23. ▪ Di Magno L, Basile A, Coni S, Manni S, Sdruscia G, D'Amico D, Antonucci L, Infante P, **De Smaele E**, Cucchi D, Ferretti E, Di Marcotullio L, Screpanti I, Canettieri G. The energy sensor AMPK regulates Hedgehog signaling in human cells through a unique Gli1 metabolic checkpoint. **Oncotarget**. 2016 Feb 23;7(8):9538-49. doi: 10.18632/oncotarget.7070.
Time cited: 27 (From Scopus)
IF: 5,00

24. ▪ Benvenuto M, Masuelli L, **De Smaele E**, Fantini M, Mattera R, Cucchi D, Bonanno E, Di Stefano E, Frajese GV, Orlandi A, Screpanti I, Gulino A, Modesti A, Bei R. In vitro and in vivo inhibition of breast cancer cell growth by targeting the Hedgehog/GLI pathway with SMO (GDC-0449) or GLI (GANT-61) inhibitors. **Oncotarget**. 2016 Feb 23;7(8):9250-70. doi: 10.18632/oncotarget.7062.
Time cited: 70 (From Scopus)
IF: 5,00

25. ▪ D'Amico D, Antonucci L, Di Magno L, Coni S, Sdruscia G, Macone A, Miele E, Infante P, Di Marcotullio L, **De Smaele E**, Ferretti E, Ciapponi L, Giangaspero F, Yates JR 3rd, Agostinelli E, Cardinali B, Screpanti I, Gulino A, Canettieri G. Non-canonical Hedgehog/AMPK-Mediated Control of Polyamine Metabolism Supports Neuronal and Medulloblastoma Cell Growth. **Dev Cell**. 2015 Oct 12;35(1):21-35. doi: 10.1016/j.devcel.2015.09.008.
Time cited: 35 (From Scopus-WOS)
IF: 9,34

26. ▪ Di Magno L, Manzi D, D'Amico D, Coni S, Macone A, Infante P, Di Marcotullio L, **De Smaele E**, Ferretti E, Screpanti I, Agostinelli E, Gulino A, Canettieri G. Druggable glycolytic requirement for

Hedgehog-dependent neuronal and medulloblastoma growth. **Cell Cycle**. 2014;13(21):3404-13. doi: 10.4161/15384101.2014.952973.
Time cited: 22 (From Scopus)
IF: 4,57

27. ▪ Infante P, Mori M, Alfonsi R, Ghirga F, Aiello F, Toscano S, Ingallina C, Siler, M, Cucchi D, Po A, Miele E, D'Amico D, Canettieri G, **De Smaele E**, Ferretti E, Screpanti I, Uccello Barretta G, Botta M, Botta B, Gulino A, Di Marcotullio L. Gli1/DNA interaction is a druggable target for Hedgehog-dependent tumors DOI 10.15252/embj.201489213 **EMBO J**. 2015 Jan 13;34(2):200-17.
Time cited: 100 (From Scopus)
IF: 9,64

28. ▪ Garg N, Po A, Miele E, Campese AF, Begalli F, Silvano M, Infante P, Capalbo C, **De Smaele E**, Canettieri G, Di Marcotullio L, Screpanti I, Ferretti E, Gulino A. microRNA-17-92 cluster is a direct Nanog target and controls neural stem cell through Trp53inp1. **EMBO J**. 2013 Oct 30;32(21):2819-32. doi: 10.1038/emboj.2013.214.
Time cited: 48 (From Scopus)
IF: 10,75

29. ▪ Mazzà D, Infante P, Colicchia V, Greco A, Alfonsi R, Siler M, Antonucci L, Po A, **De Smaele E**, Ferretti E, Capalbo C, Bellavia D, Canettieri G, Giannini G, Screpanti I, Gulino A, Di Marcotullio L. PCAF ubiquitin ligase activity inhibits Hedgehog/Gli1 signaling in p53-dependent response to genotoxic stress. **Cell Death Differ**. 2013 Dec;20(12):1688-97. doi: 10.1038/cdd.2013.120.
Time cited: 56 (From Scopus)
IF: 8,38

30. ▪ Coni S, Antonucci L, D'Amico D, Di Magno L, Infante P, **De Smaele E**, Giannini G, Di Marcotullio L, Screpanti I, Gulino A, Canettieri G. Gli2 acetylation at lysine 757 regulates hedgehog-dependent transcriptional output by preventing its promoter occupancy. **PLoS One**. 2013 Jun 6;8(6):e65718.
Time cited: 47 (From Scopus)
IF: 3,53

31. ▪ Benvenuto M, Fantini M, Masuelli L, **De Smaele E**, Zazzeroni F, Tresoldi I, Calabrese G, Galvano F, Modesti A, Bei R. Inhibition of ErbB receptors, Hedgehog and NF-kappaB signaling by polyphenols in cancer. **Front Biosci**. 2013 Jun 1;18:1290-310.
Time cited: 24 (From Scopus)
IF: 4,25

32. Gulino, A., Di Marcotullio, L., Canettieri, G., **De Smaele, E**., Screpanti, I. Hedgehog/Gli Control by Ubiquitination/Acetylation Interplay. Vitamins and Hormones, 2012, 88, pp. 211–227. Book Chapter/Review. doi 10.1016/B978-0-12-394622-5.00009-2
Time cited: 27 (From Scopus)
IF: 2,30

33. ▪ Cucchi D, Occhione MA, Gulino A, **De Smaele E**. Hedgehog Signaling pathway and targets for treatment in basal cell carcinoma. **Journal of Experimental Pharmacology**. 2012 (4) 173 – 185. doi: 10.2147/JEP.S28553
Time cited: 9 (From Scopus)
IF: 1,60 (citescore Scopus)

34. ▪ Grieco FA, Moretti M, Sebastiani G, Galleri L, Spagnuolo I, Scafetta G, Gulino A, **De Smaele E**, Maroder M, Dotta F. Delta-cell-specific expression of hedgehog pathway Ptch1 receptor in murine and human endocrine pancreas. **Diabetes/Metabolism Research and Reviews** 2011, vol. 27:755-760.
Time cited: 7 (From Scopus-WOS)
IF: 3,37

35. ▪ Mauro C, Leow SC, Anso E, Rocha S, Thotakura AK, Tornatore L, Moretti M, **De Smaele E**, Beg AA, Tergaonkar V, Chandel NS, Franzoso G. NF-κB controls energy homeostasis and metabolic adaptation by upregulating mitochondrial respiration. **Nature Cell Biol**. 2011; 13:1272-9.
Time cited: 190 (From Scopus-WOS)
IF: 19,49

36. ▪ **De Smaele E**, Di Marcotullio L, Moretti M, Pelloni M, Occhione MA, Infante P, Cucchi D, Greco A, Pietrosanti L, Todorovic J, Coni S, Canettieri G, Ferretti E, Bei R, Maroder M, Screpanti I, Gulino A. Identification and characterization of KCASH2 and KCASH3, 2 novel Cullin3 adaptors suppressing histone deacetylase and Hedgehog activity in medulloblastoma. **Neoplasia**. 2011; 13:374-85.
Time cited: 57 (From Scopus)
IF: 5,95

37. ▪ Correale S, Pirone L, Di Marcotullio L, **De Smaele E**, Greco A, Mazza D, Moretti M, Alterio V, Vitagliano L, Di Gaetano S, Gulino A, Pedone EM. Molecular organization of the cullin E3 ligase adaptor KCTD11. **Biochimie,** 2011; 93:715-724.
Time cited: 39 (From Scopus)
IF: 3,02

38. ▪ Di Marcotullio L, Greco A, Mazza D, Canettieri G, Pietrosanti L, Infante P, Coni S, Moretti M, **De Smaele E**, Ferretti E, Screpanti I, Gulino A. Numb activates the E3 ligase Itch to control Gli1 function through a novel degradation signal. **Oncogene**, 2011; 30:65-76.
Time cited: 73 (From Scopus)
IF: 6,37

39. ▪ Po A, Ferretti E, Miele E, **De Smaele E**, Paganelli A, Canettieri G, Coni S, Di Marcotullio L, Biffoni M, Massimi L, Di Rocco C, Screpanti I, Gulino A. Hedgehog controls neural stem cells through p53-independent regulation of Nanog. **EMBO J**. 2010; 29:2646-58.
Time cited: 158 (From Scopus)
IF: 10,12

40. ▪ Canettieri G, Di Marcotullio L, Greco A, Coni S, Antonucci L, Infante P, Pietrosanti L, **De Smaele E**, Ferretti E, Miele E, Pelloni M, De Simone G, Pedone EM, Gallinari P, Giorgi A, Steinkühler C, Vitagliano L, Pedone C, Schininà ME, Screpanti I, Gulino A. Histone deacetylase and Cullin3-REN(KCTD11) ubiquitin ligase interplay regulates Hedgehog signalling through Gli acetylation. **Nature Cell Biol**. 2010; 12:132-42.
Time cited: 219 (From WOS)
IF: 19,41

41. ▪ **De Smaele E**, Ferretti E, Gulino A. MiRNAs as biomarkers for CNS cancer and other disorders. **Brain Research**, 2010; 1338:100-111.
Time cited: 99 (From Scopus)
IF: 2,62

42. ▪ **De Smaele E**, Ferretti E, A. Gulino. Vismodegib, a small-molecule inhibitor of the hedgehog pathway for the treatment of advanced cancers. **Current Opinion In Investigational Drugs**, 2010; 11:707-718.
Time cited: 72 (From Scopus)
IF: 3,40

43. ▪ Gulino A, Ferretti E, **De Smaele E**. Hedgehog signalling in colon cancer and stem cells. **EMBO Mol Med. 2009**; 1:300-302.
Time cited: 47 (From Scopus)
IF: 8,83 (2010 first available, new journal)

44. ▪ Ferretti E*, **De Smaele E***, Po A, Di Marcotullio L, Tosi E, Espinola MS, Di Rocco C, Riccardi R, Giangaspero F, Farcomeni A, Nofroni I, Laneve P, Gioia U, Caffarelli E, Bozzoni I, Screpanti I, Gulino A. MicroRNA profiling in human medulloblastoma**. Int J Cancer**. 2009; 124:568-77.
*Equal contributors.
Time cited: 238 (From Scopus)
IF: 5,14

45. ▪ Gulino A, **De Smaele E**, Ferretti E. Glucocorticoids and neonatal brain injury: the hedgehog connection. **J Clin Invest**. 2009; 119:243-6.
Time cited: 13 (From Scopus)
IF: 15,39

46. ▪ Ferretti E*, **De Smaele E***, Miele E, Laneve P, Po A, Pelloni M, Paganelli A, Di Marcotullio L, Caffarelli E, Screpanti I, Bozzoni I, Gulino A. Concerted microRNA control of Hedgehog signalling in cerebellar neuronal progenitor and tumour cells. **EMBO J**. 2008; 27:2616-27.
*Equal contributors.
Time cited: 249 (From Scopus)
IF: 8,29

47. ▪ **De Smaele E**., C. Fragomeli, E. Ferretti, M. Pelloni, A. Po, G. Canettieri, S. Coni, L. Di Marcotullio, A. Greco, M. Moretti, C. Di Rocco, S. Pazzaglia, M. Maroder, I. Screpanti, G. Giannini, A. Gulino. An integrated approach identifies Nhlh1 and Insm1 as Sonic-Hedgehog-regulated genes in developing cerebellum and medulloblastoma. **Neoplasia**, 2008; 10:89-98.
Time cited: 43 (From WOS)
IF: 5,20

48. ▪ Gulino A, Di Marcotullio L, Ferretti E, **De Smaele E,** Screpanti I. Hedgehog signaling pathway in neural development and disease. **Psychoneuroendocrinology**. 2007 Aug;32 Suppl 1:S52-6.
Time cited: 26 (From Scopus)
IF: 4,42

49. ▪ Papa S, Monti SM, Vitale RM, Bubici C, Jayawardena S, Alvarez K, **De Smaele E**, Dathan N, Pedone C, Ruvo M, Franzoso G. Insights into the structural basis of the GADD45beta-mediated inactivation of the JNK kinase, MKK7/JNKK2. **J. Biol Chem** 2007; 282:19029-41.
Time cited: 51 (From Scopus)
IF: 5,58

50. ▪ Di Marcotullio L, Ferretti E, Greco A, **De Smaele E**, Screpanti I, Gulino A. Multiple ubiquitin-dependent processing pathways regulate hedgehog/gli signaling: implications for cell development and tumorigenesis. **Cell Cycle**. 2007; 6:390-3.
Time cited: 28 (From WOS)
IF: 3,31

51. ▪ Di Marcotullio L, Ferretti E, **De Smaele E**, Screpanti I, Gulino A. Suppressors of hedgehog signaling: Linking aberrant development of neural progenitors and tumorigenesis. **Mol Neurobiol**. 2006, 34:193-204.
Time cited: 19 (From Scopus)
IF: 3,76

52. ▪ Di Marcotullio L, Ferretti E, Greco A, **De Smaele E**, Po A, Sico MA, Alimandi M, Giannini G, Maroder M, Screpanti I, Gulino A. Numb is a suppressor of Hedgehog signaling and targets Gli1 for Itch-dependent ubiquitination. **Nature Cell Biology**. 2006; 8:1415-23.
Time cited: 215 (From Scopus)
IF: 18,49

53. ▪ Iacovelli L, Arcella A, Battaglia G, Pazzaglia S, Aronica E, Spinsanti P, Caruso A, **De Smaele E**, Saran A, Gulino A, D'Onofrio M, Giangaspero F, Nicoletti F. Pharmacological activation of mGlu4 metabotropic glutamate receptors inhibits the growth of medulloblastomas. **J Neurosci**. 2006 Aug 9;26(32):8388-97.
Time cited: 60 (From Scopus)
IF: 7,45

54. ▪ Ferretti E, Di Marcotullio L, Gessi M, Mattei T, Greco A, Po A, **De Smaele E**, Giangaspero F, Riccardi R, Di Rocco C, Pazzaglia S, Maroder M, Alimandi M, Screpanti I, Gulino A. Alternative splicing of the ErbB-4 cytoplasmic domain and its regulation by hedgehog signaling identify distinct medulloblastoma subsets. **Oncogene**. 2006; 25:7267-73;
Time cited: 38 (From Scopus)
IF: 6,58

55. ▪ Ferretti E, **De Smaele E**, Di Marcotullio L, Screpanti I, Gulino A. Hedgehog checkpoints in medulloblastoma: the chromosome 17p deletion paradigm. **Trends in Mol. Med**. 2005; 11:537-545.
Time cited: 58 (From Scopus)
IF: 5,50

56. ▪ Argenti B, Gallo R, Di Marcotullio L, Ferretti E, Napolitano M, Canterini S, **De Smaele E**, Greco A, Fiorenza MT, Maroder M, Screpanti I, Alesse E, Gulino A. Hedgehog antagonist REN(KCTD11) regulates proliferation and apoptosis of developing granule cell progenitors. **J Neurosci**. 2005; 25:8338-46.
Time cited: 58 (From Scopus)
IF: 7,51

57. ▪ Pham C.G., Bubici C., Zazzeroni F., Papa S., Jones J., Alvarez K., Jayawardena S., **De Smaele E**., Cong R., Beaumont C., Torti F.M., Torti S.V., Franzoso G. Ferritin Heavy Chain Upregulation by NF-kappaB Inhibits TNFalpha-Induced Apoptosis by Suppressing Reactive Oxygen Species. **Cell**. 2004; 119:529-42.
Time cited: 471 (From Scopus)
IF: 28,39

58. ▪ **De Smaele E**., Di Marcotullio L., Ferretti E., Screpanti I., Alesse E., Gulino A. Chromosome 17p Deletion in Human Medulloblastoma: A Missing Checkpoint in the Hedgehog Pathway. **Cell Cycle**. 2004; 3:1263-1266.
Time cited: 27 (From Scopus)
IF: 3,2

59. ▪ *Di Marcotullio L., *Ferretti E., ***De Smaele E**., Argenti B., Mincione C., Zazzeroni F., Gallo R., Masuelli L., Napolitano M., Maroder M., Modesti A., Giangaspero F., Screpanti I., Alesse E., Gulino A. REN(KCTD11) is a suppressor of Hedgehog signaling and is deleted in human medulloblastoma. **Proc Natl Acad Sci U S A**. 2004; 101:10833-8.
*equal contributors
Time cited: 148 (From Scopus)
IF: 10,45

60. ▪ Papa S, Zazzeroni F, Bubici C, Jayawardena S, Alvarez K, Matsuda S, Nguyen DU, Pham CG, Nelsbach AH, Melis T, **De Smaele E**, Tang WJ, D'Adamio L, Franzoso G. Gadd45beta mediates the nf-kappab suppression of jnk signalling by targeting mkk7/jnkk2. **Nature Cell Biology** 2004; 6:146-53.
Time cited: 281 (From Scopus)
IF: 20,65

61. ▪ Zazzeroni F, Papa S, Algeciras-Schimnich A, Alvarez K, Melis T, Bubici C, Majewski N, Hay N, **De Smaele E**, Peter ME, Franzoso G. Gadd45β Mediates the Protective Effects of CD40 Co-Stimulation Against Fas-Induced Apoptosis. **Blood** 2003, 102:3270-9.
Time cited: 67 (From Scopus)
IF: 10,12

62. ▪ Zazzeroni F, Papa S, **De Smaele E**, Franzoso G. Cell signalling (communication arising) - Cell survival and a Gadd45-factor deficiency. **Nature** 2003, 424:742.
Time cited: 7 (From Scopus)
IF: 28,00

63. ▪ Medici MA, Sciortino MT, Perri D., Amici C., Avitabile E., Ciotti M., Balestrieri E., **De Smaele E**., Franzoso G., Mastino A. Protection by herpes simplex virus glycoprotein D against Fas-mediated apoptosis: role of nuclear factor kappaB. **J. Biol Chem.** 2003, 278:36059-67.
Time cited: 79 (From Scopus)
IF: 6,48

64. ▪ Guiet C, Silvestri E, **De Smaele E**, Franzoso G, Vito P. c-FLIP efficiently rescues TRAF-2-/- cells from TNF-induced apoptosis. **Cell Death Differ**. 2002; 9:138-44.
Time cited: 31 (From Scopus)
IF: 5,70

65. ▪ Jin R., **De Smaele E**., Zazzeroni F., Nguyen D.U., Papa S., Jones J., Cox C., Gelinas C., and Franzoso G. Regulation of the gadd45β promoter by NF-kB. **DNA Cell Biol**. 2002; 21:491-503.
Time cited: 62 (From Scopus)
IF: 1,77

66. ▪ **De Smaele E**., Zazzeroni F., Papa S., Nguyen D.U., Jin R., Jones J., Cong R., and Franzoso G. Induction of gadd45β by NF-kB down-regulates pro-apoptotic JNK signaling. **Nature**. 2001; 414: 308-13.
Time cited: 629 (From Scopus)
IF: 28,00
Lavoro oggetto di:
***.News and Views: 2001. Nature, 414:265-266.**
***.Highlights: 2001. Nature Reviews in Molecular Cell Biology 2: 875.**

67. ▪ Matteucci C, Ghoneim H, Grelli S, Matteucci C, Grelli S, **De Smaele E**, Fontana C, Mastino A. Identification of Nuclei from Apoptotic, Necrotic and Viable Lymphoid Cells by Using Multiparameter Flow Cytometry. **Cytometry**, 1999; 35:145-153.
Time cited: 56 (From Scopus)
IF: 2,84

68. Grelli S., Matteucci C., Cioli D., El Saved L.H., Adam N., Ghoneim H., **De Smaele E**., Favalli C., Garaci E., Mastino A. Immunological events during the early phase of infection with Schistosoma mansoni in mice. **Int. J. Immunopathol. Pharmacol,** 1997, 10(3), pp. 205–211. doi 10.1177/039463209701000306
Time cited: 1 (From Scopus)
IF: 2,29

Subiaco, 10/01/2021

Enrico De Smaele