

CURRICULUM VITAE

Vassilis G Gorgoulis

1. CONTACT DETAILS

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2. CURRENT POSITION

1. Professor-Director, Dept. of Histology and Embryology, School of Medicine, National and Kapodistrian University of Athens, Greece. (site: www.gorgoulis.gr)
2. Collaborating Professor, Biomedical Research Foundation, Academy of Athens (site: <http://www.bioacademy.gr/faculty-details/Gsk/vassilis?lang=en>)
3. Honorary Professor, Faculty of Medical and Human Sciences, University of Manchester, UK (site: <http://www.manchester.ac.uk/research/Vasileios.gorgoulis/>)

3. EDUCATION - TRAINING

- A. Undergraduate Studies: School of Medicine, University of Athens, Greece (degree: *Cum Laude*) (June 1988)
- B. Post-Graduate Studies:
 - i. *PhD thesis*: School of Medicine University of Athens, Greece (degree: *Cum Laude*) (April 1994)
 - ii. *Medical Specialty*: Pathology (degree: *Cum Laude*) (November 1996)

4. MAJOR SCIENTIFIC ACHIEVEMENTS

A. Our group played a major role in:

I) Establishing the “Oncogene-induced DNA damage model for cancer development” (**Science 2008; Nat Rev Mol Cell Biol 2010**). Based on: **Nature 2005; Nature 2006; J Pathol 2006; Cancer Res 2007; Oncogene 2008; Blood 2008; Am J Pathol 2009; Cancer Res 2012; Cell Death Differ 2014; Cell Mol Life Sci 2014; Cell Rep 2015; Nat Cell Biol 2016**; and currently the broader role of DNA damage response pathway in disease development (**Cell 2016, in press**) **II**) Demonstrating that oncogene-induced senescence is a DNA damage stress response acting as a barrier to cancer (**Nature 2006; Cancer Res 2007; Am J Pathol 2009; Curr Opin Cell Biol 2010; Nature Genetics 2011; Nature Cell Biol 2011; Cell Death Differ 2015**) **III**) Clarifying the functional interplay and the timeline of events underlying the two major antitumor checkpoint responses, i.e. DDR and ARF (**Nat Cell Biol 2013; Cell Death Diff 2013; Cell Cycle 2014**) **IV**) Revealing the oncogenic role of replication licensing factors Cdc6 and Cdt1 by inducing DNA replication stress and deregulating transcription (**Am J Pathol 2004; Nature 2006; Cancer Res 2007, J Cell Biol 2011; Transcription 2012; Semin Cancer Biol 2016; Nat Commun 2016; Nat Cell Biol 2016; PNAS 2016**) **V**) Contributing to our understanding of the role that inflammation plays in cancer development (**Cancer Cell 2013; Cancer Cell 2014; Pharmacol Ther 2015; Cell Rep 2016**) **VI**) Understanding how cellular senescence and molecules/pathways involved in senescence contribute to organismal development, aging and diverse pathologies, including cancer (**EMBO J 2003; Lab Invest 2005; Nature 2006; Am J Pathol 2009; Mech Ageing Dev 2016; Aging 2013; Aging Cell 2013; Stem Cells 2013; Cell Death Differ 2015; Mech Ageing Dev 2016**). As available assays to detect senescent cells are unsatisfactory, particularly *in vivo*, a major aim is to develop new methods to detect with precision and sensitivity senescent cells (**Aging 2013; Aging 2016**).

B. i. EMBO member (elected May 2015) (<http://www.embo.org/news/press-releases/2015/embo-announces-new-members-for-2015>)

ii. Among the most Highly Cited Greek Scientists internationally:

<https://sites.google.com/site/highlycited/highly-cited-greek-scientists>

5. PUBLICATIONS – CITATIONS - COMMUNICATIONS

- **221** publications in international peer reviewed journals (http://www.ncbi.nlm.nih.gov/pubmed/?term=Gorgoulis) (**1st** author in **26** publications; **last** author in **68** publications; **co-supervisor** (penultimate) author in **38** publications; **corresponding** author in **106** publications)
 - **10** publications (Am J Pathol 2004, Nature 2005, Nature 2006, a.o.) are featured as “All time article recommendations” on the F1000 Faculty Prime site.
 - **>12500** citations
 - **7** chapters in international text-books
 - **>150** communications at conferences, seminars, symposia, etc.
- h index: **50**

6. REVIEWER

- In 54 international peer reviewed journals (Nature, Nat Rev Cancer, Nat Comm, EMBO J, J Cell Biol, J Clin Invest, Curr Opin Cell Biol, Trends Genetics, Current Biology, Ann Human Genet, Cell Death Diff, Cancer Res, Current Biology, Cell Reports, Sem Cancer Biol, Oncogene, Cell Death Dis, J Pathol, Clin Cancer Res, FEBS Lett, J Cell Mol Med, Plos One, Carcinogenesis, Cancer Lett, J Mol Med, Mut Res, Mech Aging Dev, Lung Cancer, BMC Mol Biol, Biochimie, Cell Oncol, Mol Can Ther, Exp Cell Res, BMC Cancer, J Clin Immun, BMC Gastroenterology, Histology-Histopathology, Cytokine, Can Invest, J Biomolecular Techniques, Scandinavian Journal of Rheumatology, Anti-Cancer Drugs, Oral Oncology, European Journal of Oral Sciences, IUBMB Life, Otolaryngology-Head and Neck Surgery, Molecular Biology Reports, The International Journal of Biochemistry & Cell Biology, Cellular&Molecular Biology Letters, Arch Biochem Biophys, Cancer Chemotherapy and Pharmacology, Molecular Oncology, Biotechnic and Histochemistry, Recent patents on DNA & Gene sequences)
- For grant awards
 - a. *International*: **1)** European Research Council (ERC); **2)** Cancer Research UK; **3)** Leukemia Research, UK; **4)** Israel Science Foundation; **5)** Deutsches Krebsforschungszentrum (DKFZ), Germany; **6)** Netherlands, NWO, Innovational Research Incentives Scheme Veni 2013 ALW; **7)** Agence Nationale De La Recherche (French National Research Agency), France; **8)** French National Cancer Institute (INCa); **9)** Dutch Cancer Society, Holland; **10)** Ministry of Science and Technology, Israel; **11)** "Tumour escape" from canceropole CLARA (Cancéropôle Lyon Auvergne Rhône-Alpes); **12)** The Neye Foundation, Denmark; **13)** Austrian Science Fund; **14)** Portuguese Science and Technology Foundation; **15)** Academy of Sciences of the Czech Republic; **16)** Czech Science Foundation; **17)** HRB eGrant Ver2.0, Health Research Awards 2011
 - b. *Domestic*: **1)** Greek Ministry of Education; **2)** General Secretariat for Research and Technology (GSRT); **3)** Karatheodori, University of Patras, Greece

7. TEACHING AND SUPERVISING RESPONSABILITIES

- a. *Undergraduate teaching*: School of Medicine: Histology - Cell Biology, Embryology and Cancer Biology; Dentistry School: Histology – Cell Biology, Embryology
- b. *Postgraduate Supervising*: i) Supervisor or member of the supervising committee for >20 PhD students over the last 5 years; ii) Supervisor of >10 students for MSc or MPhil diploma thesis over the last 5 years
- c. Post Doctoral Supervising: Supervisor of 10 PostDocs over the last 5 years

8. COLLABORATIONS

- a. Dept of Molecular Biology, University of Geneva, Geneva, Switzerland. **Prof. TD Halazonetis**

- b. Institute of Cancer Biology and Centre for Genotoxic Stress Research, Danish Cancer Society, Copenhagen, Denmark. **Prof J Bartek**
- c. Dept of Molecular Cell Biology, The Weizmann Institute of Science. Rehovot, Israel. **Profs M Oren and V Rotter**
- d. Dept of Human Molecular Genetics and Biochemistry, Sackler Medical School, Tel Aviv University, Tel Aviv, Israel. **Prof. Y Shiloh**
- e. Telomeres and cellular senescence program, c/o IFOM-IEO, Milan, Italy. Head of Lab & Group: **Dr F d'Adda di Fagagna**
- f. Lab of Human Carcinogenesis, NCI-CCR, National Institutes of Health, Bethesda, Maryland. **Prof. C. Harris**
- g. Biotech Research and Innovation Centre (BRIC), University of Copenhagen, Copenhagen, Denmark. **Prof. C.S. Sørensen**
- h. Tumor Suppression Group, Molecular Oncology Programme, Spanish National Cancer Research Centre (CNIO), Madrid, Spain. **Prof. M Serrano**
- i. School of Life Sciences, University of Dundee, UK. **Prof. JJ Blow**
- j. Dept of Molecular Medicine and Biotechnology, Medical School of Rijeka, Rijeka, Croatia. **Prof. S Volarevic**
- k. Signalling and Cell Cycle Laboratory, Oncology Research Programmes, Institute for Research in Biomedicine (IRB), Barcelona, Spain. **Prof. A Nebreda**
- l. Science for Life Laboratory, Division of Translational Medicine and Chemical Biology, Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden. **Prof. T Helleday**
- m. IMBA, Institute of Molecular Biotechnology of the Austrian Academy of Sciences; Vienna, Austria. **Prof. J M Penninger**

(for detailed collaborations see: <http://www.gorgoulis.gr/research-activity/collaborations>)

9. MEMBERSHIP IN SCIENTIFIC ASSOCIATIONS

1. **EMBO member**
2. European Society of Pathology
3. Hellenic Society of Pathology
4. International Union Against Cancer (UICC)
5. Hellenic Association for Molecular Cancer Research
6. Hellenic Society for Biochemistry and Molecular Biology.

10. GRANTS AWARDED

- Domestic: 18 grants with approx. total budget >1.500.000 euros
- European Community: 5 grants with approx. total budget >5.500.000 euros
- Private funding bodies: 8 donations with approx. total budget >150.000 euros

11. CLINICAL SERVICES

Pathology and molecular diagnostic services:

- Pathology services for various biopsy materials
- Molecular diagnostics services:
 - i) detection of pathogens: HPV, EBV, HSV, Mycobacterium, etc
 - ii) K-Ras, B-Raf mutation detection
- European regional scheme organizer of the European Society of Pathology in the annually K-Ras European Quality Assurance Program, related to the anti-EGFR therapy (URL: <http://kras.eqascheme.org/>).
- Accredited with excellence by the European Society of Pathology for K-Ras mutation detection

12. FELLOWSHIPS and PRIZES AWARDED

- **34 fellowships and prizes** (eg UICC, Greek Academy of Sciences, University of Athens, Hellenic Pathology Society, Papanicolaou Cytopathology Research Award a.o.)

- May 2015, elected **EMBO member** (<http://www.embo.org/news/press-releases/2015/embo-announces-new-members-for-2015>)
- Among the most Highly Cited Greek Scientists internationally: <https://sites.google.com/site/highlycited/highly-cited-greek-scientists>

13. ORGANIZER OF INTERNATIONAL CONFERENCES/ MEETINGS/ WORKSHOPS (key organizer)

- a. 2nd Genomic Instability Workshop, GENICA FP7 Health Programme, Athens, May 2009
- b. 1st International Conference on Molecular Cancer Research, Royal Olympic Hotel, Athens, November 2009
- c. EMBO Workshop, Chromosome Structure, Damage & Repair, September, Cape Sounio Hotel, 2011
- d. International workshop on: “Ageing and Cancer cell biology: Convergent and divergent molecular mechanisms”, Athens July, 2013
- e. International workshop on: “Oncogenic Pathways and Antitumor Responses”, Athens April, 2014

14. INTERNATIONAL INVITATIONS (at workshops, seminars, conferences)

- a. **Invited lecture** at the 34th Annual Meeting of the European Society for Radiation Biology (ESRB) and the Annual Scientific Meeting of the Association for Radiation Research (ARR), Leicester, UK, September 2005
- b. **EMBO Workshop** “Molecular mechanisms of cell cycle control in normal and malignant cells”, Spetses island, Greece, October 2007
- c. **Invited seminar** at IFOM-IEO, Milan, October 2008
- d. **Invited seminar** at Gray Institute for Radiation Oncology & Biology 2010 Seminar Series, Oxford University, November 2010
- e. **EMBO Workshop** “Chromosome Structure, Damage & Repair”, Cape Sounio, Greece, September 2011
- f. **Invited lecture** at the TransMedRi project, University of Rijeka Faculty of Medicine, Rijeka, Croatia, May 2013
- g. **Chairman and speaker at the Cold Spring Harbor Laboratory meeting Special Session** “Eukaryotic DNA Replication & Genome Maintenance”, Cold Spring Harbor Laboratory, USA, September 2013
- h. **Invited seminar** at University of Geneva, December 13th, 2013
- i. **International workshop** on “Ageing and cancer cell biology: Convergent and divergent molecular mechanisms”, Athens, July 2013
- j. **EMBO Conference** “The DNA damage response in cell physiology and disease”, Cape Sounio, Greece, October 2013
- k. **Invited seminar** at BRIC, Copenhagen BioCenter, March 27th, 2014
- l. 23rd Biennial Congress of the **European Association for Cancer Research (EACR)** “From Basic Research to Personalised Cancer Treatment”, Munich, Germany, July 2014
- m. **Invited seminar** at Tel Aviv University, May 18th, 2015
- n. **Invited seminar** at Hebrew University, Givat Ram, Jerusalem, May 20th, 2015
- o. **Invited seminar** at Hebrew University, Ein Kerem, Jerusalem, May 21st, 2015
- p. **Invited seminar** at Weizmann Institute, May 25th, 2015
- q. **Invited seminar** at Uppsala University, Nov 4th, 2015
- r. **Invited seminar** at Karolinska Institutet, Stockholm, Nov 5th, 2015

15. PATENTS

- October 2003: WIPO Publication No: WO/2005/035787 MOLECULAR DETECTION OF MYCOBACTERIUM AVIUM SUBSP. PARATUBERCULOSIS, IPC: C12Q 1/68: Patent diploma was awarded for the “Molecular method for the typing of Mycobacterium avium subsp. Paratuberculosis” by the Organization of Industrial Property

- Patents pending: UK Patent Application Numbers 1611206.2 and 1611208.8, regarding SBB analogues chemical synthesis, method(s) and application(s) for senescence detection

16. PUBLICATIONS

(<http://www.ncbi.nlm.nih.gov/pubmed/?term=Gorgoulis>)

1. Galanos P, Pappas G, **Gorgoulis VG**. p21WAF1/Cip1 - PCNA: Fatal attraction. **Cell Cycle**. 2016 Aug 11;1:1-2.
2. Del Mare S, Husanie H, Iancu O, Abu-Odeh M, Evangelou K, Lovat F, Volinia S, Gordon J, Amir G, Stein JL, Stein GS, Croce CM, **Gorgoulis VG**, Lian JB, Aqeilan RI. p53 and WWOX dysregulation synergize to drive the development of osteosarcoma. **Cancer Res**. 2016 Aug 22. pii: canres.0621.2016.
3. Moreno A, Carrington JT, Albergante L, Al Mamun M, Haagensen EJ, Komseli ES, **Gorgoulis VG**, Newman TJ, Blow JJ. Unreplicated DNA remaining from unperturbed S phases passes through mitosis for resolution in daughter cells. **Proc Natl Acad Sci U S A**. 2016 Aug 11. pii: 201603252.

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4. Souliotis VL, Vougas K, **Gorgoulis VG**, Sfrikakis PP. Defective DNA repair and chromatin organization in patients with quiescent systemic lupus erythematosus. **Arthritis Res Ther**. 2016 Aug 4;18(1):182.
5. Liakou E, Mavrogonatou E, Pratsinis H, Rizou S, Evangelou K, Panagiotou PN, Karamanos NK, **Gorgoulis VG**, Kletsas D. Ionizing radiation-mediated premature senescence and paracrine interactions with cancer cells enhance the expression of syndecan 1 in human breast stromal fibroblasts: the role of TGF- β . **Aging** (Albany NY). 2016 Aug;8(8):1650-69.
6. Galanos P, Vougas K, Walter D, Polyzos A, Maya-Mendoza A, Haagensen EJ, Kokkalis A, Roumelioti FM, Gagos S, Tzetis M, Canovas B, Igea A, Ahuja AK, Zellweger R, Havaki S, Kanavakis E, Kletsas D, Roninson IB, Garbis SD, Lopes M, Nebreda A, Thanos D, Blow JJ, Townsend P, Sørensen CS, Bartek J, **Gorgoulis VG**. Chronic p53-independent p21 expression causes genomic instability by deregulating replication licensing. **Nat Cell Biol**. 2016 Jul;18(7):777-89.

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p21 shapes cancer evolution. [Nat Cell Biol. 2016]

Tumour suppressors: The dark side of p21. [Nat Rev Cancer. 2016]

Cancer biology: The dark side of p21. [Nat Rev Mol Cell Biol. 2016]

7. Georgakilas AG, **Gorgoulis VG**. Systemic dna damage: Mechanisms, effects and mitigation strategies. **Semin Cancer Biol**. 2016 Jun;37-38:1-2.
8. Logotheti S, Khoury N, Vlahopoulos SA, Skourti E, Papaevangelidou D, Liloglou T, **Gorgoulis V**, Budunova I, Kyriakopoulos AM, Zoumpourlis V. N-bromotaurine surrogates

- for loss of antiproliferative response and enhances cisplatin efficacy in cancer cells with impaired glucocorticoid receptor. **Transl Res.** 2016 Jul;173:58-73.e2
9. Georgakopoulou E, Evangelou K, Havaki S, Townsend P, Kanavaros P, **Gorgoulis VG**. Apoptosis or senescence? Which exit route do epithelial cells and fibroblasts preferentially follow? **Mech Ageing Dev.** 2016 Jun;156:17-24.
 10. Del Bel Belluz L, Guidi R, Pateras IS, Levi L, Mihaljevic B, Rouf SF, Wrande M, Candela M, Turrone S, Nastasi C, Consolandi C, Peano C, Tebaldi T, Viero G, **Gorgoulis VG**, Krejsgaard T, Rhen M, Frisan T. The Typhoid Toxin Promotes Host Survival and the Establishment of a Persistent Asymptomatic Infection. **PLoS Pathog.** 2016 Apr 7;12(4):e1005528.
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 11. Tarcic O, Pateras IS, Cooks T, Shema E, Kanterman J, Ashkenazi H, Boocholez H, Hubert A, Rotkopf R, Baniyash M, Pikarsky E, **Gorgoulis VG**, Oren M. RNF20 Links Histone H2B Ubiquitylation with Inflammation and Inflammation-Associated Cancer. **Cell Rep.** 2016 Feb 16;14(6):1462-76.
 12. Walter D, Hoffmann S, Komseli ES, Rappsilber J, **Gorgoulis V**, Sørensen CS. SCF(Cyclin F)-dependent degradation of CDC6 suppresses DNA re-replication. **Nat Commun.** 2016 Jan 28;7:10530.
 13. Petrakis TG, Komseli ES, Papaioannou M, Vougas K, Polyzos A, Myriantopoulos V, Mikros E, Trougakos IP, Thanos D, Branzei D, Townsend P, **Gorgoulis VG**. Exploring and exploiting the systemic effects of deregulated replication licensing. **Semin Cancer Biol.** 2015 Dec 17. pii: S1044-579X(15)30003-1.
 14. Skourti E, Logotheti S, Kontos CK, Pavlopoulou A, Dimoragka PT, Trougakos IP, **Gorgoulis V**, Scorilas A, Michalopoulos I, Zoumpourlis V. Progression of mouse skin carcinogenesis is associated with the orchestrated deregulation of miR-200 family members, miR-205 and their common targets. **Mol Carcinog.** 2015 Aug 27. [Epub ahead of print]
 15. Golomb L, Sagiv A, Pateras IS, Maly A, Krizhanovsky V, **Gorgoulis VG**, Oren M, Ben-Yehuda A. Age-associated inflammation connects RAS-induced senescence to stem cell dysfunction and epidermal malignancy. **Cell Death Differ.** 2015 Nov;22(11):1764-74.
 16. Bahri R, Pateras IS, D'Orlando O, Goyeneche-Patino DA, Campbell M, Polansky JK, Sandig H, Papaioannou M, Evangelou K, Foukas PG, **Gorgoulis VG**, Bulfone-Paus S. IL-15 suppresses colitis-associated colon carcinogenesis by inducing antitumor immunity. **Oncoimmunology.** 2015 Jan 22;4(9):e1002721.
 17. Michalinos A, Goutas N, Spiliopoulou C, Nikiteas N, Skandalakis P, **Gorgoulis V**, Troupis T. A study concerning morphometry of abdominal aorta branches and abdominal viscera: relations and correlations. *Folia Morphol (Warsz).* 2015 Sep 14.

18. Kotsinas A, Sigala F, Garbis SD, Galyfos G, Filis K, Vougas K, Papalampros A, Johnson EE, Chronopoulos E, Georgakilas AG, **Gorgoulis VG**. MicroRNAs Determining Inflammation as Novel Biomarkers and Potential Therapeutic Targets. **Curr Med Chem**. 2015;22(22):2666-79.
19. Pateras IS, Havaki S, Nikitopoulou X, Vougas K, Townsend PA, Panayiotidis MI, Georgakilas AG, **Gorgoulis VG**. The DNA damage response and immune signaling alliance: Is it good or bad? Nature decides when and where. **Pharmacol Ther**. 2015 Oct;154:36-56.
20. Zeidan B, Jackson TR, Larkin SE, Cutress RI, Coulton GR, Ashton-Key M, Murray N, Packham G, **Gorgoulis V**, Garbis SD, Townsend PA. Annexin A3 is a mammary marker and a potential neoplastic breast cell therapeutic target. **Oncotarget**. 2015 Aug 28;6(25):21421-7.
21. Gupta J, Igea A, Papaioannou M, Lopez-Casas PP, Llonch E, Hidalgo M, **Gorgoulis VG**, Nebreda AR. Pharmacological inhibition of p38 MAPK reduces tumor growth in patient-derived xenografts from colon tumors. **Oncotarget**. 2015 Apr 20;6(11):8539-51.
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25. Atsaves V, Lekakis L, Drakos E, Leventaki V, Ghaderi M, Baltatzis GE, Chioureas D, Jones D, Feretzaki M, Liakou C, Panayiotidis P, **Gorgoulis V**, Patsouris E, Medeiros LJ, Claret FX, Rassidakis GZ. The oncogenic JUNB/CD30 axis contributes to cell cycle deregulation in ALK+ anaplastic large cell lymphoma. **Br J Haematol**. 2014 Nov;167(4):514-23.
26. Kotsinas A, Papanagnou P, Evangelou K, Trigas GC, Kostourou V, Townsend P, **Gorgoulis VG**. ARF: a versatile DNA damage response ally at the crossroads of development and tumorigenesis. **Front Genet**. 2014 Jul 22;5:236. doi: 10.3389/fgene.2014.00236.
27. Gupta J, Del Barco Barrantes I, Igea A, Sakellariou S, Pateras IS, **Gorgoulis VG**, Nebreda AR. Dual Function of p38 α MAPK in Colon Cancer: Suppression of Colitis-Associated

Tumor Initiation but Requirement for Cancer Cell Survival. **Cancer Cell**. 2014 Apr 14;25(4):484-500.

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32. Kefala M, Papageorgiou SG, Kontos CK, Economopoulou P, Tsanas A, Pappa V, Panayiotides IG, **Gorgoulis VG**, Patsouris E, Foukas PG. Increased expression of phosphorylated NBS1, a key molecule of the DNA damage response machinery, is an adverse prognostic factor in patients with de novo myelodysplastic syndromes. **Leuk Res**. 2013 Nov;37(11):1576-82.
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34. Velimezi G, Liontos M, Vougas K, Roumeliotis T, Bartkova J, Sideridou M, Dereli-Oz A, Kocylowski M, Pateras IS, Evangelou K, Kotsinas A, Orsolich I, Bursac S, Cokaric-Brdovcak M, Zoumpourlis V, Kletsas D, Papafotiou G, Klinakis A, Volarevic S, Gu W, Bartek J, Halazonetis TD, **Gorgoulis VG**. Functional interplay between the DNA-damage-response kinase ATM and ARF tumour suppressor protein in human cancer. **Nat Cell Biol**. 2013 Aug;15(8):967-77.

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