

# MANUEL PERUCHO

## Curriculum Vitae

Date and Place of birth: 1948, La Roda (Albacete), Spain  
Marital Status: Married, two children.  
Nationality: Spanish



### Academic Degrees:

Master in Biological Sciences University of Madrid, Spain (1971)

Ph.D. in Biological Sciences University of Madrid, Spain (1976)

### Research Experience:

- 1972-1976 Ph.D. Department of Molecular Biology, Institute Gregorio Marañón, Madrid. Physico-chemical and biological characterization of DNA-binding proteins in cultured normal versus transformed mammalian cells
- 1977-1978 Postdoctoral work Max-Planck-Institut für Molekulare Genetik, Berlin. Isolation and characterization of m RNA for the tissue-specific histone H5 from immature chicken erythrocytes
- 1979-1980 Postdoctoral work Cold Spring Harbor Laboratory. Mechanisms of DNA-mediated gene transfer in cultured animal cells, and its application to the isolation of eukaryotic genes
- 1981-1982 Staff Investigator at Cold Spring Harbor Laboratory. Molecular Genetics of Malignancy: detection of human oncogenes by DNA-mediated gene transfer in animal cells
- 1982-1987 Assistant Professor, Dept. of Biochemistry, State University of New York at Stony Brook. Isolation and characterization of *ras* oncogenes from human tumors
- 1987-1988 Associate Professor, Department of Biochemistry, State University of New York at Stony Brook, Molecular diagnosis of mutant *ras* oncogenes in human cancer
- 1988-1995 Research Program Director, California Institute of Biological Research, La Jolla, California, Role of oncogene activation in human tumorigenesis. Detection of somatic genetic alterations in gastrointestinal tumors, Origin of oncogenic mutations
- 1995-2003 Professor and Program Director, Oncogenes & Tumor Suppressor Genes. Burnham Institute for Medical Research, La Jolla, California. Molecular pathogenesis of cancer of the microsatellite mutator phenotype.
- 2003-2007 Professor and Program Director, Cancer Genetics and Epigenetics, Burnham Institute for Medical Research, La Jolla, California. Genomic instability in gastrointestinal cancer
- 1999-2001 Visiting Professor, University Pompeu Fabra, Barcelona
- 1997-present. Adjunct Professor, University California San Diego (UCSD), Depts. of Medicine (until 2003) and Molecular Pathology
- 2002-present Visiting Professor, University Autònoma, Barcelona
- 2004-present Associate Investigator, Fundación Investigación Sanitaria Castilla-La Mancha (FISCAM)
- 2004-present Member Advisory Board, Instituto Canario Investigación Cancer (ICIC)
- 2007-present Professor and Program Co-Director, Tumor Development Program. Burnham Institute for Medical Research, La Jolla, California. Epigenetics of cancer
- 2007-present Director, Institute of Predictive and Personalized Medicine of Cancer (IMPPC). Badalona, Barcelona, Spain

## **HONORS (Awards, Fellowships, Honorary Degrees, etc.)**

- Predoctoral fellowship from the Juan March Foundation, Madrid. (1975-1976).
- Ph.D. degree with honors. University of Madrid. (1976).
- Postdoctoral fellowship from the Max-Planck-Institut für Molekulare Genetik. Berlin. (1977-1978).
- Postdoctoral fellowship from the Committee for the Scientific and Technological Cooperation between Spain and USA. Cold Spring Harbor, New York (1979-1980).
- Recipient of the William and Florence Catacosinos Award on Cancer Research. State University of New York at Stony Brook. December 1981.
- Co-recipient (with Drs. M. Barbacid and A. Pellicer) of the 1984 Francisco Duran-Reynals Prize for basic research on cancer. Barcelona, Spain. May 1984.
- Medal on Cancer Research awarded by the National Cancer Center. Tokyo, Japan. March 1985.
- Special Recognition for Teaching Excellence by the Office of Undergraduate Studies, State University of New York at Stony Brook. 1986.
- Co-recipient (with Drs. M. Barbacid and A. Pellicer) of the Marques de Valdecilla Foundation First Award for basic research on cancer. Santander, Spain. 1987.
- Citation of a research article published in Nature on c-K-ras activation during human colon tumorigenesis in the 1988 Year Book of Cancer, R.C. Hickey, ed., Times Mirror Books. Year Book Medical Publishers.
- Front cover of Cancer Research, June 1, 1988, vol. 48, no. 11. Review on the research article on *ras* oncogenes in colon cancer.
- Citation in the Accomplishments for FY 1993 of the Cancer Diagnosis Branch of the National Cancer Institute, NIH. November 1993.
- Citation in the Special Section Challenges for 1994: "A Joycean Mutation. Researchers discover a new mechanism for cancer". Scientific American, December 1993, pg. 47.
- Front cover of the International Journal Oncology, Vol 4, number 1, January 1994.
- Hot paper citation in The Scientist. February 20, 1995. Pag. 15.
- Merit Award from the National Cancer Institute for NIH grant CA 63585. June 1999.
- Hot paper citation in The Scientist. October 25, 1999. Pag. 16.
- Gold medal from the Academia de Medicina y Cirujia, Murcia, Spain. May 2001.
- Atlantic Prize for Cancer Research (Premio Atlantico de investigacion del Cancer), awarded by the Canarian Institute for Cancer Research (Instituto Canario de Investigacion del Cancer, ICIC). Las Palmas, Canary Islands, March 2003.
- Recipient of the 2003 American Association for Cancer Research-National Foundation for Cancer Research (AACR-NFCCR) Professorship in Basic Cancer Research. April 2003.
- Doctor Honoris Causa by the University Pablo de Olavide de Sevilla. May 2005.

## **MEETINGS AND COURSES ORGANIZED**

1. First Stony Brook Symposium. Masayori Inouye, organizer. **M. Perucho**, organizer and chairman of Workshop on Cellular Tumor Genes, Stony Brook, NY 1983.
2. International Workshop on "Molecular Diagnosis of Cancer". Foundation Juan March. **M. Perucho** and P. Garcia Barreno, organizers. Madrid, Spain. November 1989.
3. Course on "Gene transfer, oncogenes and molecular genetics of cancer". Foundation Juan March. **M. Perucho** and J. Ortin, organizers. Sigüenza, Spain. July 1990.
4. AMBO International Training Course on "Detection of DNA Aberrations in Cancer Cells" (Lectures and Laboratory classes). T. Sekiya, S. Nishimura, S. Takayama, organizers. **M. Perucho**, member of invited teaching staff. Tokyo, Japan. March 1991.
5. NATO Advanced Research Workshop on "The Super-family of Ras Related Genes" University of Crete. D. Spandidos, A. Balmain, P. Chardin, J.C. Lacal, C. Marshall, F. McCormick and **M. Perucho**, organizers. Heraklion, Crete, Greece. May 1991.
6. Lecture Course on the "Polymerase Chain Reaction". Foundation Juan March. **M. Perucho** and E. Martinez-Salas, organizers. Cuenca, Spain. May 1991.
7. International Symposium on "Human Oncogenes: The Second Decade". Foundation Ramon Areces. **M. Perucho**, A. Pellicer and J.C. Lacal, Organizers. Madrid, Spain. April 1992.
8. Universidad Complutense of Madrid Summer Course "Biological Complexity: from Chaos to Cancer". **M. Perucho** and E. Cerda, Organizers. El Escorial, July 4-8, 1994.
9. Universidad Menéndez Pelayo Santander. Course "Biología y Genética del Cáncer. Marcadores genéticos y moleculares". F. Bonilla and **M. Perucho**, Organizers. Santander, July 27-31, 1998.
10. Universidad Complutense of Madrid Summer Course "From the selfish gene to the human brain". **M. Perucho**, Organizer. El Escorial, August 3-7, 1998.
11. The Burnham Institute 21st. Annual Symposium: "Genome Dynamics. Somatic Mutation and Hypermutation in Normal and Cancer Cells". **M. Perucho**, Conference Chairperson. La Jolla, March 25-26, 1999.
12. Universidad Autónoma de Barcelona (UAB). Postgraduate. course "Mecanismos moleculares del cáncer. Cánceres de colon, mama y prostata". E. Escrich and **M. Perucho**, directors. Barcelona, March 17-22, 2003.
13. Universidad Internacional de Andalucía Summer Course "Genes, Oncogenes y Memes: Aventuras con la doble hélice". **M. Perucho**, Director. Baeza, September 8-12, 2003.
14. UAB. Postgrad. course "Mecanismos moleculares del cáncer. Cánceres de colon, mama y prostata". E. Escrich and **M. Perucho**, dirs. Barcelona, March 15-20, 2004.
15. Fundación para la Investigación Sanitaria en Castilla-La Mancha (FISCAM), Summer Workshop "Genes, Genoma y Cáncer: de la doble hélice a la medicina predictiva". **M. Perucho**, director. Toledo, 28-30 September, 2004.
16. UAB. Postgrad. course "Mecanismos moleculares del cáncer. Cánceres de colon, mama y prostata". E. Escrich and **M. Perucho**, dirs. Barcelona, March 14-19, 2005.
17. Universidad de Sevilla. Graduate course "Alteraciones genéticas y epigenéticas en el cancer". **M. Perucho**, director. Sevilla, May 20-25, 2005.
18. Fundación para la Investigación Sanitaria en Castilla-La Mancha (FISCAM), Summer Workshop "Genes y Cáncer: desde la doble hélice a la biología postgenómica". **M. Perucho**, director. Cuenca, 18-21 Julio, 2005.
19. UAB. Postgrad. course "Mecanismos moleculares del cáncer. Cánceres de colon, mama y prostata". E. Escrich and **M. Perucho**, dirs. Barcelona, June, 2006.
20. Universidad de Sevilla. Graduate course "Genética y Epigenética del Cáncer". **M. Perucho**, director. Sevilla, November 2007.

## **SERVICE IN ADVISORY COMMITTEES AND EDITORIAL TASKS:**

- Member of special review committee, National Cancer Institute. Site visit to Children's Cancer Research Center. Philadelphia, PA, July 10-12, 1983 (2PO1 CA14489-10).
- Member of special study section, National Cancer Institute. RFA No. NIH-NCI-DCBR-BD-84-21, "Application of Recombinant DNA Technology of Diagnosis of Cancer". Washington, DC, February 19, 1985.
- Member of Advisory Committee on Cell and Developmental Biology, American Cancer Society. New York, NY, June 10-11, 1985.
- Member of special review committee, National Cancer Institute. Site visit to Johns Hopkins University. Baltimore, MD, April 7-9, 1986 (PO1 CA42762).
- Member of special review committee, National Cancer Institute. Site visit to University of Arizona, Tucson, AZ, June 9-11, 1986 (PO1 CA41183).
- Chairman, Selection Committee for research positions of the Spanish Consejo Superior de Investigaciones Cientificas (CSIC) in Biotechnology, Cellular Pathology and Virology, for the National Center of Virology, Majadahonda, Madrid, Spain, November 1989.
- Member of special review committee, National Cancer Institute. Site visit to New England Deaconess Hospital - Dana Farber, Boston, MA, March 26-28, 1990 (PO1 CA 44704-04).
- Ad-hoc member, Pathology B Study Section, NIH. February and June 1990.
- Editor, Critical Reviews in Oncogenesis, CRC Press, Inc., Boca Raton, FL. 1989-1995.
- Member, Pathology B Study Section, NIH. 1995-1999.
- Member of special review committee, National Cancer Institute. Site visit to Jefferson University-Kimmel Cancer Institute, Philadelphia, PA. 04/13-04/15/98 (PO1 CA 76259-01A1).
- Member of special study section, National Cancer Institute. PAR 98-066 & PAR 98-067. "Innovative technology for the molecular analysis of cancer". Washington, November 18-20, 1998.
- Member of Specialized Programs of Research Excellence (SPOREs) Review Panel, National Cancer Institute. ZCA1-GRB-V(J1). SPORE applications in GI cancers. San Diego, CA, October 13-14, 2003.
- Member of Advisory panel for Fundacion Echevarne, National Prizes in Oncology, 1995, 1999 and 2003.
- Member, Cancer and Leukemia Group B (CALGB) GI, Solid Tumor Correlative Sciences. 1999-2003.
- Member, National Cancer Institute Committee on Specimen Resources. 1998- 2005.
- Member of the Editorial Board of the International Journal of Oncology. 1993-present.
- Member of the Editorial Board of the International Journal of Cancer. 1997-present.
- Member of the Editorial Board of BioMed Central Medicine. 2001-present.
- Member of the Editorial Board of Cancer Science. 2003-present.
- Reviewer of grants from the following agencies:
  - National Institutes of Health (NIH)
  - National Science Foundation (NSF);
  - The City University of New York (PSC-CUNY);
  - March of Dimes Foundation;
  - Israel Academy of Sciences and Humanities;
  - Spanish Comision Interministerial de Ciencia y Tecnologia (CICT);
  - Veterans Administration;
  - Dutch Cancer Society;
  - Council for Medical & Health Res. Netherlands
  - Medical Research Council of Canada;
  - Associazione Italiana per la Ricerca sul Cancro;
  - The Barts & The London Charitable Foundation;
  - Fundacion Cientifica de la Asociacion Espanola Contra el Cancer
  - Spanish Ministry Science & Education, program CONSOLIDER.

- Reviewer of articles for the Journals:

Science;	Gastroenterology;
Nature Genetics;	Genes, Chromosomes & Cancer;
Nature Medicine;	Gut;
Cancer Cell;	Human Molecular Genetics;
Molecular and Cellular Biology;	Human Mutation;
Proceedings of the National Academy of Sciences USA	International Journal of Cancer;
Cancer Research;	International Journal of Oncology
Clinical Cancer Research;	International Journal of Pancreatology;
Molecular Cancer Research;	Japanese Journal Cancer Research;
Oncogene;	Journal of Bacteriology;
Oncogene Research;	Journal of Biological Chemistry;
Advances in Cancer Research;	Journal of Cell Biology;
American Journal Pathology;	Journal of Clinical Investigation;
Biochimica Biophysica Acta;	Journal of Medical Genetics
Biological Chemistry;	Journal of Molecular Biology;
BioMed Central;	Journal of the National Cancer Institute;
Biomed Central Cancer;	Journal of Virology;
Biotechniques;	Laboratory Investigation;
British Journal of Cancer;	Leukemia Research;
Cancer Epidemiol. Biomarkers & Prevention;	Mammalian Genome.
Cancer Letters;	Molecular & Cellular Probes;
Carcinogenesis;	Molecular & General Genetics;
Cell Death & Differentiation;	Molecular Carcinogenesis;
Cell Growth & Differentiation;	Nucleic Acids Research;
Cytogenetics & Cell Genetics;	Oncology Research;
European Journal of Cancer;	PCR Methods & Applications;
	Virology;

### **COMMUNICATIONS:**

- Communications Presented in Scientific Meetings with Abstracts:

Over 100 communications presented with abstracts. These include (counting only up until 2004) 44 in the USA, 9 in Japan and 29 in Spain, the remainder in the rest of the world.

- Invited Speaker at Scientific Meetings without Abstracts

78 talks given (only counting those up to 2004) including 41 in Spain, 27 in the USA and 3 in Japan.

- Invited Seminars and Lectures

77 seminars and lectures given (only including those up until 2004), with 35 in the USA, 19 in Spain and 19 in Japan



## **PUBLICATIONS**

1. **Perucho, M.**, Salas, J. and Salas, M.L. (1977) Identification of the mammalian DNA-binding protein P8 as glyceraldehyde-3-phosphate dehydrogenase. *Eur. J. Biochem.* 81, 557-562.
2. **Perucho, M.**, Molgaard, H.V., Shevack, A., Pataryas, T. and Ruiz-Carrillo, A. (1979) An improved method for the preparation of undegraded polysomes and active messenger RNA from immature chicken erythrocytes. *Anal. Biochem.* 98, 464-471.
3. **Perucho, M.**, Salas, J. and Salas, M.L. (1980) Study of the interaction of glyceraldehyde-3-phosphate dehydrogenase with DNA. *Biochem. Biophys. Acta* 606, 181-195.
4. Molgaard, H.V., **Perucho, M.** and Ruiz-Carrillo, A. (1980) Histone H5 messenger RNA is polyadenylated. *Nature* 283, 502-504.
5. Wigler, M., **Perucho, M.**, Kurtz, D., Dana, S., Pellicer, A., Axel, R. and Silverstein, S. (1980) Transformation of mammalian cells with an amplifiable dominant acting gene. *Proc. Natl. Acad. Sci. USA* 77, 3567-3570.
6. **Perucho, M.**, Hanahan, D., Lipsich, L. and Wigler, M. (1980) Isolation of the chicken thymidine kinase gene by plasmid rescue. *Nature* 285, 207-210.
7. **Perucho, M.**, Hanahan, D. and Wigler, M. (1980) Mechanisms of DNA-mediated transformation in animal cells. *9th Annual ICN-UCLA Symposia. Animal virus genetics. B. Fields and R. Jaenish, eds. Academic Press, Inc.* pp. 155-169.
8. **Perucho, M.**, Hanahan, D. and Wigler, M. (1980) Genetic and physical linkage of exogenous sequences in transformed cells. *Cell* 22, 309-317.
9. **Perucho, M.** and Wigler, M. (1981) Linkage and expression of foreign DNA in cultured animal cells. *Cold Spring Harb. Symp. Quant. Biol.* 45, 829-838.
10. Wigler, M., Levy, M. and **Perucho, M.** (1981) The somatic replication of DNA methylation. *Cell* 24, 33-40.
11. **Perucho, M.**, Goldfarb, M., Shimizu, M., Lama, C., Fogh, J. & Wigler, M. (1981) Human-tumor-derived cell lines contain common & different transforming genes. *Cell* 27, 467-476.
12. **Perucho, M.**, Molgaard, H.V. and Ruiz-Carrillo, A. (1982) Enrichment of histone H5-synthesizing polysomes by indirect immunoadsorption. Purification of H5 mRNA. *J. Biol. Chem.* 257, 958-963.
13. Goldfarb, M., Shimizu, K., **Perucho, M.** and Wigler, M. (1982) Isolation and preliminary characterization of a human transforming gene from T24 bladder carcinoma cells. *Nature* 296, 404-409.
14. Shimizu, K., Goldfarb, M., **Perucho, M.** and Wigler, M. (1983) Isolation and preliminary characterization of the transforming gene of a human neuroblastoma cell line. *Proc. Natl. Acad. Sci. USA* 80, 383-387.
15. Shimizu, M., Goldfarb, M., Suard, Y., **Perucho, M.**, Li, Y., Kamata, T., Feramisco, J., Stavnezer, E., Fogh, J. and Wigler, M.H. (1983) Three human transforming genes are related to the viral *ras* oncogenes. *Proc. Natl. Acad. Sci. USA* 80, 2112-2116.

16. Wigler, M., Goldfarb, M., Shimizu, K., **Perucho, M.**, Suard, Y., Fasano, O., Taparowsky, E. and Fogh, J. (1983) Identification, isolation and characterization of three distinct human transforming genes. In *"Genes and Proteins in Oncogenesis,"* I.B. Weinstein and H.J. Vogel, eds. Academic Press, New York. pp. 285-292.
17. Wigler, M., Shimizu, K., **Perucho, M.**, Goldfarb, M. and Fogh, J. (1983) Identification, isolation and characterization of human transforming genes. In *"Nucleic Acid Research: Future Developments,"* K. Mizobuchi, I. Watanabe, and T. Watson, eds. Academic Press, New York. pp. 377-392.
18. Nakano, H., Yamamoto, F., Neville, C., Evans, D., Mizuno, T. & **Perucho, M.** (1984) Isolation of transforming sequences of two human lung carcinomas: Structural & functional analysis of the activated c-K-ras oncogenes. *Proc. Natl. Acad. Sci. USA* 81, 71-75.
19. Nakano, H., Neville, C., Yamamoto, F., Garcia, J.L., Fogh, J. and **Perucho, M.** (1984) Structure and mechanisms of activation of the c-K-ras oncogene from two human lung tumors. *Cold Spring Harbor Conferences on Cell Proliferation and Cancer, Vol. XI: The Cancer Cell, Oncogenes and Viral Genes.* pp. 447-454.
20. Yamamoto, F. and **Perucho, M.** (1984) Activation of a human c-K-ras oncogene. *Nucl. Acids Res.* 12, 8873-8885.
21. Yamamoto, F., Nakano, H., Neville, C. and **Perucho, M.** (1985) Structure and mechanisms of activation of c-K-ras oncogenes in human lung cancer. *Progress in Medical Virology* 32, 101-114
22. **Perucho, M.** and Esteban, M. (1985) Inhibitory effect of interferon on the genetic and oncogenic transformation by viral and cellular genes. *J. Virol.* 54, 229-232.
23. Tamaoki, T., Mizukami, T., **Perucho, M.** and Nakano, H. (1985) Expression of intact Ki-ras p21 protein in Escherichia coli. *Biochem. Biophys. Res. Comm.* 132, 126-133.
24. Winter, E., Yamamoto, F., Almoguera, C. and **Perucho, M.** (1985) A method to detect and characterize point mutations in transcribed genes: Amplification and overexpression of the mutant c-K-ras allele in human tumor cells. *Proc. Natl. Acad. Sci. USA* 82, 7575-7579.
25. Winter, E. & **Perucho, M.** (1986) Oncogene amplification during tumorigenesis of established rat fibroblasts reversibly transformed by activated human ras oncogenes. *Mol. Cell. Biol.* 6, 2562-2570.
26. **Perucho, M.** and Massague, J. (1986) Reversible induction of transforming growth factor alpha by human ras oncogenes. *J. Tumor Markers Oncology* 1, 81-91.
27. Jordano, J. and **Perucho, M.** (1986) Chromatin structure of the promoter region of the human c-K-ras gene. *Nucl. Acids Res.* 14, 7361-7378.
28. Nakano, E.T., Rao, M.M., **Perucho, M.** and Inouye, M. (1986) Expression of the Kirsten ras viral and human proteins in Escherichia coli. *J. Virol.* 61 302-307.
29. Forrester, K., Almoguera, C., Han, J., Grizzle, W.E. & **Perucho, M.** (1987) Detection of high incidence of K-ras oncogenes during human colon tumorigenesis. *Nature* 327, 298-303.
30. Kahn, S., Yamamoto, F., Almoguera, C., Winter, E., Forrester, K., Jordano, J. and **Perucho, M.** (1987) The c-K-ras oncogene and human cancer. *Anticancer Research* 7, 639-652.
31. Forrester, K., Almoguera, C., Jordano, J., Grizzle, W.E. and **Perucho, M.** (1987) High incidence of c-K-ras oncogenes in human colon cancer detected by the RNase a mismatch cleavage

- method. *J. Tumor Markers Oncology* 2, 113-123.
32. Almoguera, C., Forrester, K., Winter, E., Lama, C. and **Perucho, M.** (1987) Activated *ras* genes in pulmonary carcinomas. Proceedings of the International Conference on Hormones, Growth Factors and Oncogenes in Pulmonary Carcinoma. In "Lung Cancer".
  33. Jordano, J. and **Perucho, M.** (1988) Initial characterization of a potential transcriptional enhancer for the human c-K-*ras* gene. *Oncogene* 2, 359-366.
  34. Yamamoto, F. and **Perucho, M.** (1988) Characterization of the human c-K-*ras* gene promoter. *Oncogene Res.* 3, 125-138.
  35. Lopez-Galindez, C., Lopez, J.A., Melero, J.A., Dela Fuente, L., Martinez, C., Ortin, J. and **Perucho, M.** (1988) Analysis of genetic variability and mapping of point mutations in influenza virus by the RNase A mismatch cleavage method. *Proc. Natl. Acad. Sci. USA* 85, 3522-3526.
  36. Almoguera, C., Shibata, D., Forrester, K., Martin, J., Arnheim, N. and **Perucho, M.** (1988) Most human carcinomas of the exocrine pancreas contain mutant c-K-*ras* genes. *Cell* 53, 549-554.
  37. Forrester, K., Almoguera, C., Lama, C., Dunitz, J., Kawanishi, H., Grizzle, W.E. and **Perucho, M.** (1990) Expression and mutational activation of the c-K-*ras* oncogene in human colo-rectal adenomas and carcinomas. In "Familial Adenomatous Polyposis," L. Herrera, ed. Alan R. Liss, Inc., New York. pp. 337-346.
  38. **Perucho, M.**, Forrester, K., Almoguera, C., Kahn, S., Lama, C., Shibata, D., Arnheim, N. and Grizzle, W.E. (1989) Expression and mutational activation of the c-Ki-*ras* gene in human carcinomas. *Cold Spring Harbor Laboratory Cancer Cells, "Molecular Diagnostics of Human Cancer"*, 7 pp 137-141.
  39. Almoguera, C., Forrester, K. and **Perucho, M.** (1989) Application of the Polymerase Chain Reaction for the detection of single-base substitutions by the RNase A mismatch cleavage method. In "Current Communications in Molecular Biology," Polymerase Chain Reaction (Erllich, H.A., Gibbs, R. and Kazazian, H.H., eds.). Cold Spring Harbor Laboratory. pp 37-41.
  40. **Perucho, M.** (1989) Detection of single-base substitutions with RNase A mismatch cleavage method. *Strategies in Molecular Biology* 2, 37-41.
  41. Shibata, D., Almoguera, C., Forrester, K., Dunitz, J., Martin, S.E., Cosgrove, M.M., **Perucho, M.** and Arnheim, N. (1990) Detection of c-K-*ras* mutations in fine needle aspirates from human pancreatic adenocarcinomas. *Cancer Res.* 50, 1279-1283.
  42. Shibata, D., Capella, G. and **Perucho, M.** (1990) Mutational activation of the c-K-*ras* gene in human pancreatic carcinoma. *Bailliere's Clinical Gastroenterology* 4, 151-169.
  43. **Perucho, M.**, Capella, G. and Shibata, D. (1990) Oncogene activation in human pancreatic carcinoma. *Proceedings of the American Association for Cancer Research* 31, 19:478-479.
  44. Lopez-Galindez, C., Rojas, J.M., Najera, R., Richman, D.D. and **Perucho, M.** (1991) Characterization of genetic variation and AZT resistance mutations of HIV by the RNase A mismatch cleavage method. *Proc. Natl. Acad. Sci. USA* 88, 4280-4284.
  45. Viola, M.V., Chen, J., Fromowitz, F., Finkel, G., Compton, C. and **Perucho, M.** (1991) *ras* mutation in precancerous cells in ulcerative colitis. In "Dysplasia & Cancer," Robert Riddle, ed., Elsevier Science Publishing Co., New York, NY. pp. 153-159.
  46. Capella, G., Lluís, F., Sancho, J. and **Perucho, M.** (1991) Activation of the c-K-*ras* gene in the colon adenoma-carcinoma sequence. *Oncology* 41, pp. 459-461.

47. Capella, G., Cronauer-Mitra, S., Peinado, M.A. and **Perucho, M.** (1991) Frequency and spectrum of mutations at codons 12 and 13 of the c-K-ras gene in human tumors. *Environm. Health Perspectives* 93, pp. 125-131.
48. Corominas, M., **Perucho, M.**, Newcomb, E.W. & Pellicer, A. (1991) Differential expression of the normal and mutated K-ras alleles in chemically induced thymic lymphomas. *Cancer Res.* 51 5129-5133.
49. Peinado, M.A., and **Perucho, M.** (1991) Taq polymerase cycling sequencing of PCR amplified DNA. *Fundacion Juan March. Serie Universitaria* pp. 78-86.
50. Peinado, M.A., Malkhosyan, S., Velazquez, A., and **Perucho, M.** (1992) Isolation and characterization of allelic losses and gains in colorectal tumors by arbitrarily primed polymerase chain reaction. *Proc. Natl. Acad. Sci. USA.* 89, 10065-10069.
51. Peinado, M.A., Fernandez-Renart, M., Capella, G., Wilson, L. and **Perucho, M.** (1993). Mutations in the p53 suppressor gene do not correlate with c-K-ras oncogene mutations in colorectal cancer. *International J. Oncology*, 2, 123-134.
52. Schaeffer, J. Capella, G., Peinado, M.A., Fernandez-Renart, M., and **Perucho, M.** (1993) Comparative analysis of genetic alterations in pancreatic and other carcinomas. *International J. of Pancreatology* 14, 75-77.
53. Ionov, Y., Peinado, M.A., Malkhosyan, S., Shibata, D. and **Perucho, M.** (1993) Ubiquitous somatic mutations in simple repeated sequences reveal a new mechanism for colonic carcinogenesis. *Nature*, 363, 558-561.
54. Shibata, D., Schaeffer, J., Li, Z.-H., Capella, G. and **Perucho, M.** (1993) Genetic heterogeneity of the c-K-ras locus in colorectal adenomas but not adenocarcinomas. *J. Natl. Cancer Institute* 85, 1058-1063.
55. **Perucho, M.** (1994). PCR and Cancer Diagnostics: Detection and characterization of single point mutations in oncogenes and antioncogenes. In "*The Polymerase Chain Reaction*". Mullis, K.B., Ferre, F. and Gibbs, R.A. Eds. *Birkhauser, Springer-Verlag.* 369-394.
56. Shibata, D., Peinado, M.A., Ionov, Y., Malkhosyan, S. and **Perucho, M.** (1994). Genomic instability in repeated sequences is an early somatic event in colorectal tumorigenesis that persists after transformation. *Nature Genetics*, 6, 273-281.
57. Berrozpe, G., Schaeffer, J., Peinado, M. A., Real, F. X. and **Perucho, M.** (1994). Comparative analysis of mutations in the p53 and K-ras genes in pancreatic cancer. *International Journal of Cancer.* 58, 185-191.
58. **Perucho, M.**, Schaeffer, J., Velazquez, A., Berrozpe, G., and Capella, G. (1994). Genetic alterations. In "*Facing the Pancreatic Dilemma*". *Proceedings of the Verona 93 / International Symposium on Pancreatic Disease.* Springer-Verlag. 226-238.
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**Other Publications (only including those up to 2004):**

11 Book Chapters and Reviews in Spanish and 9 essays and reviews in Spanish national press and magazines.