

CURRICULUM VITAE

Name: **MANEL ESTELLER**
 Citizenship: Born in Sant Boi de Llobregat, Barcelona, Catalonia, Spain.
 DOB: September 6th, 1968
 Mailing address: Dr. Manel Esteller,
 Josep Carreras Leukaemia Research Institute (IJC)
 Carretera de Can Ruti, Camí de les Escoles s/n,
 08916 Badalona, Barcelona, Catalonia, Spain.
 Telephone: 34-93-557 2837
 Web pages: http://www.carrerasresearch.org/en/cancer-epigenetics_124284
 Languages: English, Catalan and Spanish.
 E-mail: mesteller@carrerasresearch.org
 Twitter: @ManelEsteller

EDUCATION AND PROFESSIONAL EXPERIENCE:

10/1/86-6/30/92 Medical Student, University of Barcelona, Spain.
 10/1/88-6/30/92 Assistant Fellow, Department of Biochemistry and Molecular Biology, School of Medicine, University of Barcelona, Spain.
 5/1/95-9/1/95 Research Fellow, School of Biological and Medical Sciences, St. Andrews University, United Kingdom.
 10/1/92-12/31/96 Graduate Student, Biomedical Research Unit, Hospital Universitari Maternal Vall d'Hebrón, Barcelona, Spain.
 1/1/97-3/1/97 Postdoctoral Fellow, Biomedical Research Unit, Hospital Universitari Maternal Vall d'Hebrón, Barcelona, Spain.
 4/1/97-5/31/00 Postdoctoral Fellow, The Johns Hopkins Oncology Center, The Johns Hopkins University and School of Medicine, Baltimore, USA.
 6/1/00-8/31/01 Research Associate, The Johns Hopkins Oncology Center, The Johns Hopkins University and School of Medicine, Baltimore, USA.
 9/1/01-09/30/08 Group Leader, Cancer Epigenetics Laboratory, Molecular Pathology Program, Spanish National Cancer Center (CNIO), Madrid, Spain.
 10/1/8-6/30/17 Professor of Genetics, School of Medicine, University of Barcelona.
 10/1/8-5/14/19 Director and Group Leader, Cancer Epigenetics and Biology Program (PEBC), Bellvitge Biomedical Campus, Barcelona, Catalonia, Spain.
 5/15/19-8/31/24 Director, Josep Carreras Leukaemia Research Institute (IJC), Badalona, Barcelona, Catalonia, Spain.
 5/15/19- Present Group Leader, Cancer Epigenetics Group, Josep Carreras Leukaemia Research Institute (IJC), Badalona, Barcelona, Catalonia, Spain.
 10/1/8 - Present Catalan Institution for Research and Advanced Studies (ICREA) Research Professor
 7/1/17 - Present Chairman of Genetics, School of Medicine, University of Barcelona

SCIENTIFIC STAYS AS PI

Summer of 2014 Visiting Professor, University of California San Diego (UCSD), San Diego, California, USA.
 Summer of 2016 Visiting Professor, Beth Israel Deaconess Medical Center (BIDMC), Harvard University, MA, USA
 Summer of 2018 Visiting Professor, Mount Sinai School of Medicine, New York City, NY, USA.
 Summer of 2022 Visiting Professor, New York University (NYU) School of Medicine, New York City, NY, USA
 Summer of 2024 Visiting Professor, Weill Cornell Medicine (WCM), New York, NY, USA

SCIENTIFIC HONORS AND AWARDS:

- 1986 Prize young scientists CIRIT (Generalitat de Catalunya) 1985-1986.
- 1987 Prize young scientists CIRIT (Generalitat de Catalunya) 1986-1987.
- 1990-1992 Grant Consejo Superior de Investigaciones Científicas (CSIC-I.E.I.).
- 1992 Medical Graduate with Honors. Barcelona University.
- 1992 Grant " Agustí Pedro i Pons " Foundation.
- 1992 Grant " Spanish Association for Cancer Research " .
- 1995 Grant I.E.S. (Institut d'Estudis de la Salut)
- 1992-1996 Predoctoral Grant Ministry of Education and Science. Rovira i Virgili University.
- 1997 Ph. D. Degree with Honors " *cum laude* " .
- 1997-1999 Postdoctoral Fellowship Ministry of Education and Science. The Johns Hopkins Oncology Center, Johns Hopkins University and School of Medicine.
- 1998 Young Investigator Award American Association for Cancer Research-AFLAC.
- 1998 Gordon Research Conferences (GRC) Award in Cancer.
- 1998 European School of Medical Oncology (ESMO) Award.
- 1999 Young Investigator Award American Association for Cancer Research (AACR-Bristol-Myers Squibb).
- 1999 First Prize in Basic Research at The Johns Hopkins Oncology Center Fellows Day.
- 2000 Special Late-Breaking Abstract at AACR Meeting.
- 2000 European Association for Cancer Research "Young Cancer Researcher Award".
- 2001 Young Investigator Award AACR-AFLAC
- 2002 Merit Award American Society of Clinical Oncology (ASCO)
- 2003 Mary Béve Lecturer, Nordic Society for Paediatric Haematology and Oncology
- 2005 Translational Research Award. Hospital of Madrid Foundation
- 2006 Magistral Lecturer, Universidad Internacional Menendez y Pelayo
- 2006 Beckman-Coulter Award Spanish Society Biochemistry and Molecular Biology
- 2006 FPRC Young Investigator Award, Fondazione Piemontese per la Ricerca sul Cancro-ONLU
- 2006 Foundation Francisco Cobos Award in Biomedical Research
- 2006 Swiss Bridge Cancer Award
- 2006 Carcinogenesis Award Oxford University Press
- 2007 National Research Award in Oncology "Maria Julia Castillo"
- 2007 "Dr Josep Trueta" Award, Academy of Medical Sciences of Catalonia
- 2007 Innovation Award, Commonwealth of Massachusetts.
- 2007 Human Frontier Science Program Award
- 2008 "Dr Jacint Vilardell" Award, Gastroenterology Foundation
- 2008 Debiopharm Life Sciences Award École Polytechnique Fédérale Lausanne
- 2009 Prize « Conde de Cartagena », National Royal Academy of Medicine
- 2009 Best Ideas in Health, Diario Medico
- 2009 Premio de Investigacion Biomedica Fundacion Lilly
- 2009 Dr. Josef Steiner Cancer Research Award
- 2009 Carmen y Severo Ochoa Foundation Research Award in Molecular Biology
- 2010 Research Award in Health Sciences, Foundation Caja Rural de Granada
- 2010 Deichmann Award, International Union of Toxicology
- 2010 World Health Summit and Pfizer Award for Innovation in Biomedical Research
- 2011 EACR Cancer Researcher Award Lecture
- 2011 European Research Council Advanced Grant
- 2011 National Award in Genetics, Spanish Society of Genetics
- 2012 Best Ideas in Health, Centenarian Epigenome, Diario Medico
- 2012 Research Award in Medicine, Hospitales de Madrid
- 2012 National Award in Cancer Research "Doctores Diz Pintado"
- 2012 Dexeus International Award in Women Health

2013	BIAL Award Distinction
2013	Research Award in Life Sciences Royal Academy of Natural and Physical Sciences
2013	Severo Ochoa Prize for Biomedical Research by Ferrer Foundation
2013	Rey Jaime I Prize in Basic Science
2014	Award Vanguardia de la Ciencia
2014	National Award in Oncology by Echevarne Foundation
2014	European Research Council Proof of Concept Grant
2015	“Dr Josep Trueta” Medal, Generalitat de Catalunya (Catalan Government)
2015	National Research Award, Generalitat de Catalunya (Catalan Government)
2016	Best Ideas in Health, EPICUP, Diario Medico
2016	European Research Council Proof of Concept Grant
2017	Best Ideas in Health, Epitranscriptome, Diario Medico
2018	Scientific Achievements Prize, Foundation for the Excellence in Oncology (ECO)
2018	Scientific Innovation Award Team in Clinical Research, Pfizer Foundation
2018	Innovation Health Award in Oncology by Celgene Endowment
2019	Lansdowne Lecture Award, University of Victoria, British Columbia, Canada
2019	Best Ideas in Health, Glioblastoma Research, Diario Medico
2020	Distinguished Lecture Recognition, International Society for Cutaneous Lymphoma
2020	“Narcís Monturiol” Medal, Generalitat de Catalunya (Catalan Government)
2021	Elected as Section Editor for Epigenetics at “Molecular Oncology”
2021	Award Dr. Fernández-Cruz Memorial Foundation
2021	Elected Member of the Academia Europaea
2021	Elected Fellow of the European Academy of Sciences
2021	Award Ennova Health in Big Data and Artificial Intelligence
2022	Advisory Board Member of Faculty Opinions
2022	Award “Constantes y Vitales” for Scientific Career in Biomedical Research by AXA Foundation and Atresmedia
2022	Landmark Article in Cancer Research by AACR and National Cancer Act
2023	Elected Member of Sigma XI, The Scientific Research Honor Society
2023	Admirable Award in Research by Diario Medico and Correo Farmaceutico
2023	Elected Member of the Royal European Academy of Doctors
2023	“Jané Mateu Foundation” Award
2023	Prize “Rafael Hervada” for Biomedical Research
2024	Award Ennova Health in Big Data and Artificial Intelligence
2024	Burdinola Research Award for New Molecular Targets in Medicine
2024	Research Award of the National Royal Academy of Pharmacy
2024	Prize of The Royal Academy of Medicine
2025	Research Prize of the Barrié Foundation-RAMG

SOCIAL HONORS AND AWARDS:

2003	"Predilect Son" Sant Boi de Llobregat, Barcelona, Catalonia
2006	Special Prize "Ciutat de Sant Boi", Barcelona, Catalonia
2008	Nominated for the "Catalan of the Year" Award
2008	Patron of the Foundation "Sandra Ibarra de Solidaridad frente al Cáncer"
2009	Premio Dulcinea Asociación Mujeres Cáncer de Mama Castilla-La Mancha
2009	Finalist of the “Catalan of the Year” Award
2009	Mai Award, IES Valdemosa, Barcelona, Catalonia
2009	Gaudi Gresol Award, Reus, Catalonia
2011	Jesus Montoliu Conference Award, Lleida, Catalonia
2012	Patron of the Biotechnology Graduation Ceremony, Lleida University, Catalonia
2013	Finalist Boehringer Ingelheim Award in Medical Journalism
2014	Prize “Doctor Benaprès”

- 2014 Finalist Boehringer Ingelheim Award in Medical Journalism
- 2014 Medical Personality of the Decade by Redaccion Medica
- 2015 Prize “El Llobregat” to the Professional Excellence
- 2015 Distinguished Member Institute of Catalan Studies (IEC)
- 2016 “Predilect Son”, Atzeneta del Maestrat, Castellò, València
- 2016 Honor Gold Medal, Parlament of Catalonia
- 2016 Premi Internacional de Catalunya, Generalitat de Catalunya (Catalan Government)
- 2017 Patron Biomedical Sciences Graduation Ceremony, Lleida University, Catalonia
- 2017 “Carlemagne Falcon” Award, Girona, Catalonia
- 2018 Finalist Best Health article, National Association of Health Journalists (ANIS)
- 2018 Finalist Best Initiative to Improve Patient Health Forum Albert Jovell Janssen-Cilag
- 2018 Finalist Dissemination Award, Catalan Society of Biology (SCB)
- 2018 Finalist FIPSE Implemented Innovation in Health Award
- 2018 “Joan Sardà” Award to Social Commitment, Catalan Association for Civil Rights
- 2018 Award for the Best Science and Humanities Dissemination Activities by the Board of Trustees and the Doctors' Senate of the University of Barcelona (UB)
- 2019 Finalist Dissemination Award, Catalan Society of Biology (SCB)
- 2021 Board of Trustees, Barça Foundation (F.C. Barcelona)
- 2022 Premi Joan Salvat for Social Service, Baix Llobregat Council
- 2022 Board of Trustees, Interuniversity Institute Foundation -InterAc Salut
- 2022 Scientific Advisory Board, Chair Santiago Ramón y Cajal

ACADEMIA:

- 2004-present Honorary Professor, Autonomus University of Madrid
- 2008-present Associate Professor of Genetics, University of Barcelona
- 2008-present Institutio Catalana de Recerca i Estudis Avançats (ICREA) Research Professor
- 2008-present Member of the Royal Academy of Medicine of Catalonia (RAMC)
- 2011-present Member of the Royal Academy of Pharmacy of Spain (RANF)
- 2011-present Faculty of 1000 (F1000)
- 2015-present Member of the Institut d’Estudis Catalans (IEC)
- 2021-present Elected Member of the Academia Europaea
- 2021-present Elected Fellow of the European Academy of Sciences
- 2023-present Elected Member of Sigma XI, The Scientific Research Honor Society
- 2023-present Elected Member of the Royal European Academy of Doctors

MEMBERSHIP:

- 1992-present Catalan Association of Biology (SCB)
- 1997-present Spanish Association for Cancer Research (ASEICA)
- 1997-present European Association for Cancer Research (EACR)
- 1997-present The Johns Hopkins Medical and Surgical Association
- 1997-present American Association for the Advancement of Science (AAAS)
- 1997-present American Association for Cancer Research (AACR)
- 1998-present New York Academy of Sciences
- 1998-present European School of Medical Oncology (ESMO)
- 2001-present DNA Methylation Society
- 2006-present Academy of Medical and Health Sciences of Catalonia and Balears
- 2006-present Spanish Society of Biochemistry and Molecular Biology (SEBBM)
- 2006-present American Society for Biochemistry and Molecular Biology (ASBMB)
- 2006-present Associate Member, Epigenome Network of Excellence
- 2008-present President, Epigenetics Society
- 2021-present Active Member, International Society for Experimental Hematology (ISEH)
- 2021-present Active Member, European Hematology Association (EHA)
- 2021-present International Member, American Society of Hematology (ASH)

689 ORIGINAL PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS:

- ✓ **Total Impact Factor: 8,819.7 Average Impact Factor per Article: 12.80**
- ✓ **Total Number of Citations: 108,614 h-Index: 153 Web of Science/Clarivate Analytics**
- ✓ **Total Number of Citations: 149,793 h-Index: 177 Google Scholar**
- ✓ **30 Highly Cited Articles - Essential Science Indicators, Thomson Reuters**
- ✓ **Highly Cited Researcher (Top 1% Citations, Decade 2008-2018) Clarivate Analytics**
- ✓ **Top 500 World Scientists Google Scholar by National Research Council (CSIC) (2020, 2021 and 2022)**
- ✓ **Top 0.5% Best World Scientist according to Research.com (2022-2023), #1 in Spain**
- ✓ **Highly Cited Researcher™ by Clarivate Web of Science in 2018, 2019, 2020 and 2021**
- ✓ **Top 0.1% World Scientists based on Impact by Biomedical Data Science, and Statistics and Meta-Research Innovation Center (METRICS) at Stanford University (2019, 2020, 2021, 2022 and 2023)**

Summary of Publications (number of manuscripts in parentheses):

Nature Genetics (4), New England Journal of Medicine (3), Cancer Cell (4), Proc Natl Acad Sci USA (10), Nature (3), Science (3), Cell (6), Molecular Cell (2), The Lancet (1), Nature Medicine (3), The Lancet Oncology (3), Cancer Discovery (4), Nature Communications (18), Cancer Research (44), The Journal of The National Cancer Institute (11), Nature Structural & Molecular Biology (2), Nature Immunology (1), Nature Biotechnology (1), Cell Metabolism (1), EMBO Journal (4), Nature Cell Biology (2), Nature Aging (1), CA: A Cancer Journal for Clinicians (1), Cancer Research Communications (1), The Lancet Respiratory Medicine (1), Genome Research (4), Genome Biology (5), Cell Reports (6), Cell Genomics (1), Cell Reports Medicine (1), Journal of Clinical Oncology (5), Oncogene (34), Nature Reviews Genetics (4), Nature Reviews Clinical Oncology (1), Nature Biotechnology (1), Developmental Cell (2), Molecular Cancer (9), Molecular and Cellular Biology (2), Human Molecular Genetics (6), Nucleic Acids Research (6), Journal of Cell Science (2), EMBO Reports (1), Carcinogenesis (7), Clinical Cancer Research (17), Journal of Biological Chemistry (2), Cell Cycle (3), Critical Reviews in Hematology/Oncology (3), Am J Respir Critical Care Medicine (1), Human Genetics (2), Genes, Chromosomes & Cancer (1), Brain (1), JCI Insight (1), Briefings in Bioinformatics (1), Advanced Science (1), Cancer Communications (1), Journal of Experimental Medicine (2), Gastroenterology (4), EMBO Molecular Medicine (1), Lancet EBiomedicine (3), Lancet EClinicalMedicine (1), Trends in Cancer (4), Trends in Immunology (1), Trends in Genetics (1), Haematologica (3), British Journal of Haematology (5), Blood (5), Blood Advances (1), Leukemia (7), Blood Cancer Discovery (4), Other Journals (377).

ORIGINAL ARTICLES:**1994**

- 1) **Esteller M**, Ureña J, Carreras J, Martelly I, Climent F. Thyroid Hormone Stimulates Phosphoglycerate Mutase Activity and Isozyme Transition in Rat Muscle Tissues. ***Life Sciences***, 54, 533-538, 1994.

1995

- 2) **Esteller M**, Martínez-Palones JM, García A, Cabero A, Reventós J. Detection of c-erbB-2/neu and fibroblast growth factor-3/INT-2 but not epidermal growth factor receptor gene amplification in endometrial cancer by differential polymerase chain reaction. ***Cancer***, 75, 2139-2146, 1995.
- 3) **Esteller M**, Martínez-Palones JM, García A, Xercavins J, Reventós J. High rate of *MDR-1* and heterogeneous pattern of *MRP* expression without gene amplification in endometrial cancer. ***International Journal of Cancer***, 63, 798-803, 1995.

1997

- 4) Cairns P, Okami K, Halachmi S, Halachmi N, **Esteller M**, Herman JG, Jen J, Isaacs WB, Bova GS, Sidransky D. Frequent inactivation of *PTEN/MMAC1* in primary prostate cancer. ***Cancer Research***, 57, 4997-5000, 1997.
- 5) **Esteller M**, Martínez-Palones JM, Garcia A, Xercavins J, Reventós J. Detection of clonality and genetic alterations in endometrial pipelle biopsy and its surgical specimen counterpart. ***Laboratory Investigation***, 76, 109-116, 1997.
- 6) **Esteller M**, Garcia A, Martínez-Palones JM, Xercavins J, Reventós J. Susceptibility to endometrial cancer: allelism at *p53*, glutathione-S-transferase (*GSTM1* and *GSTT1*) and cytochrome P-450 (*CYP1A1*) loci. ***British Journal of Cancer***, 75, 1385-1388, 1997.
- 7) **Esteller M**, Garcia A, Martínez-Palones JM, Xercavins J, Reventós J. The clinicopathological significance of K-RAS point mutation and gene amplification in endometrial cancer. ***European Journal of Cancer***, 33, 1572-1577, 1997.
- 8) **Esteller M**, Garcia A, Martínez-Palones JM, Xercavins J, Reventós J. Germ line polymorphisms in cytochrome-P450 1A1 (C4887 CYP1A1) and methylenetetrahydrofolate reductase (MTHFR) genes and endometrial cancer susceptibility ***Carcinogenesis***, 18, 2307-2311, 1997.

1998

- 9) **Esteller M**, Levine R, Hedrick Ellenson L, Baylin SB, Herman JG. *MLH1* promoter hypermethylation is associated with the microsatellite instability phenotype in sporadic endometrial carcinomas. ***Oncogene***, 17, 2413-2417, 1998.
- 10) Cairns P, Evron E, Okami K, Halachmi N, **Esteller M**, Herman JG, Bose S, Wang SI, Parsons R, Sidransky D. Point mutation and homozygous deletion of PTEN/MMAC1 in primary bladder cancers. ***Oncogene***, 16, 3215-3217, 1998.
- 11) **Esteller M**, Corn PG, Urena JM, Gabrielson E, Baylin SB, Herman JG. Inactivation of glutathione-S-transferase P1 by promoter hypermethylation in human neoplasia. ***Cancer Research***, 58, 4515-4518, 1998.

1999

- 12) **Esteller M**, Sanchez-Cespedes M, Rosell R, Baylin SB, Sidransky D, Herman JG. Detection of aberrant promoter methylation of tumor suppressor genes in serum DNA from non-small cell lung cancer patients. *Cancer Research*, 59, 67-70, 1999.
- 13) **Esteller M**, Hamilton SR, Burger PC, Baylin SB, Herman JG. Inactivation of the DNA repair gene *O*⁶-methylguanine-DNA methyltransferase by promoter hypermethylation is a common event in primary human neoplasia. *Cancer Research*, 59, 793-797, 1999.
- 14) Ahrendt SA, Chow JT, Xu L, Yang SC, Eisenberg CF, Wu L, **Esteller M**, Herman JG, Wu L, Decker PA, Jen J, Sidransky D. Molecular detection of tumor cells in bronchoalveolar lavage fluid from patients with early stage lung cancer. *Journal of the National Cancer Institute*, 91, 332-339, 1999.
- 15) **Esteller M**, Garcia A, Martínez-Palones JM, Xercavins J, Reventós J. Clinicopathological features and genetic alterations in endometrioid carcinoma of the uterus with villoglandular differentiation. *American Journal of Clinical Pathology*, 111, 336-342, 1999.
- 16) Fleisher SA *, **Esteller M** *, Yin J, Newkirk C, Zou TT, Abraham JM, Wang S, Kong D, Smolinski KN, Shi YQ, Rhyu MG, Powell SM, Tamura G, Herman JG, Metzler SR. Hypermethylation of the hMLH1 gene promoter in human gastric cancers with microsatellite instability. *Cancer Research*, 59, 1090-1095, 1999. * Both authors contributed equally to this work.
- 17) Corn PG, Kuerbitz SJ, Van Noesel MM, **Esteller M**, Compitello N, Baylin SB, Herman JG. Transcriptional silencing of the *p73* gene in acute lymphoblastic leukemia and Burkitt's lymphoma is associated with 5' CpG island methylation. *Cancer Research* 59, 3352-3356, 1999.
- 18) Sanchez-Cespedes M, **Esteller M**, Hibi K, Cope FO, Westra WH, Piantadosi S, Herman JG, Jen J, Sidransky D. Molecular detection of neoplastic cells in lymph nodes of metastatic colorectal cancer patients predicts recurrence. *Clinical Cancer Research* 5, 2450-4, 1999.
- 19) **Esteller M**, Garcia A, Martínez-Palones JM, Xercavins J, Reventós J. Endometrial carcinoma in tamoxifen-treated breast cancer patient: clinicopathological, immunohistochemical and genetic analysis. *International Journal of Gynecological Pathology* 18, 293-6, 1999.
- 20) **Esteller M**, Catusus L, Matias-Guiu X, Mutter G, Baylin SB, Prat J, Herman JG. *hMLH1* promoter hypermethylation is an early event in endometrial tumorigenesis. *American Journal of Pathology* 155, 1767-72, 1999.

2000

- 21) **Esteller M**, Garcia-Foncillas J, Andion E, Goodman SN, Hidalgo OF, Vanaclocha V, Baylin SB, Herman JG. Inactivation of the DNA-repair gene MGMT and the clinical response of gliomas to alkylating agents. *New England Journal of Medicine* 343, 1350-4, 2000.
- 22) **Esteller M**, Avyzinete E, Corn P, Lothe R, Baylin SB, Aaltonen L, Herman JG. Epigenetic inactivation of *LKB1* in primary tumors associated with the Peutz-Jeghers syndrome. *Oncogene* 19, 164-8, 2000.
- 23) **Esteller M**, Tortola S, Toyota M, Capella G, Peinado MA, Baylin SB, Herman JG. Hypermethylation-associated inactivation of *p14^{ARF}* is independent of *p16^{INK4a}* methylation and *p53* mutational status. *Cancer Research* 60,129-33, 2000.
- 24) Sanchez-Cespedes M, **Esteller M**, Wu L, Narrowz-Danish H, Koch W, Baylin SB, Herman JG, Sidransky D. Gene promoter hypermethylation in tumors and serum of head and neck cancer patients. *Cancer Research* 60, 892-5, 2000.
- 25) **Esteller M**, Toyota M, Sanchez-Cespedes M, Issa JP, Capella G, Peinado MA, Baylin SB, Herman JG. Inactivation of the DNA repair gene *O*⁶-methylguanine-DNA methyltransferase by promoter hypermethylation is associated with G to A mutations in K-ras in colorectal tumorigenesis. *Cancer Research* 60, 2368-71, 2000.

- 26) Trojan J, Brieger A, Raedle J, **Esteller M**, Zeuzem S. 5'-CpG island methylation of the LKB1/STK11 promoter and allelic loss at chromosome 19p13.3 in sporadic colorectal cancer. *GUT* 47, 272-6, 2000.
- 27) **Esteller M**, Sparks A, Toyota M, Sanchez-Cespedes M, Capella G, Peinado MA, Gozalez S, Tarafa G, Sidransky D, Meltzer SJ. Analysis of adenomatous polyposis coli promoter hypermethylation in human cancer. *Cancer Research* 60, 4366-71, 2000.
- 28) Fleisher AS, **Esteller M**, Wang S, Tamura G, Suzuki H, Yin J, Herman JG, Mettler SJ. Microsatellite instability in inflammatory bowel disease-associated neoplastic lesions is associated with hypermethylation and diminished expression of the DNA mismatch repair gene, hMLH1. *Cancer Research* 60, 4864-8, 2000.
- 29) **Esteller M**, Silva JM, Dominguez G, Bonilla F, Matias-Guiu X, Bussaglia E, Lerma E, Prat J, Harkes IC, Repasky EA, Gabrielson E, Schutte M, Baylin SB, Herman JG. Promoter hypermethylation and BRCA1 inactivation in sporadic breast and ovarian tumors. *Journal of the National Cancer Institute* 92, 564-9, 2000.

2001

- 30) Soengas MS, Capodiceci P, Polsky D, Mora J, **Esteller M**, Optiz-Araya X, McCombie R, Herman JG, Gerald WL, Lazebnik YA, Cordon-Cardo C, Lowe SW. Inactivation of the apoptosis effector Apaf-1 in melanoma. *Nature* 409, 207-11, 2001.
- 31) Fleisher AS, **Esteller M**, Wang S, Tamura G, Suzuki H, Yin J, Herman JG, Mettler SJ. Hypermethylation of the hMLH1 gene promoter is associated with microsatellite instability in early human gastric neoplasia. *Oncogene* 20, 329-335, 2001.
- 32) **Esteller M**, Gonzalez S, Risques RA, Marcuello E, Mangués R, Germa JR, Herman JG, Capella G, Peinado MA. K-ras and p16 alterations confer poor prognosis in human colorectal cancer. *Journal of Clinical Oncology* 19, 299-304, 2001.
- 33) Hedelfank I, Duggan D, Chen Y, Radmacher M, Bittner M, Simon R, Meltzer P, Gusterson B, **Esteller M**, Kallioniemi OP, Wilfond B, Borg A, Trent J. Gene-expression profiles in hereditary breast cancer. *New England Journal of Medicine* 344, 539-48, 2001.
- 34) Sanchez-Cespedes M, Anthony P Decker, Kara M Doffek, **Esteller M**, Westra WH, Enas A Alawi, Herman JG, Demeure MJ, Sidransky D and Ahrendt SA. Increased loss of chromosome 9p21 but not p16 inactivation in primary non-small cell lung cancer from smokers. *Cancer Research* 61, 2092-2096, 2001.
- 35) **Esteller M**, Cordon-Cardo C, Corn PG, Meltzer SJ, Pohar KS, Watkins DN, Capella G, Peinado MA, Matias-Guiu X, Prat J, Baylin SB, Herman JG. *p14^{ARF}* silencing by promoter hypermethylation mediates abnormal intracellular localization of MDM2. *Cancer Research* 61, 2816-21, 2001.
- 36) **Esteller M**, Corn PG, Baylin SB, Herman JG. A gene hypermethylation profile of human cancer. *Cancer Research* 61, 3225-9, 2001.
- 37) **Esteller M**, Risques RA, Toyota M, Capella G, Moreno V, Peinado MA, Baylin SB and Herman JG. Promoter Hypermethylation of the DNA Repair Gene O⁶-Methylguanine-DNA Methyltransferase is Associated with the Presence of G:C to A:T Transition Mutations in p53 in Human Colorectal Tumorigenesis. *Cancer Research* 61, 4689-92, 2001.
- 38) Caballero OL, Cohen D, Liu Q, **Esteller M**, Bonacum, White P, Engles J, Yochem R, Herman JG, Westra WH, Lengauer C, Sidransky D, Jen J. Loss of chromosome arms 3p and 9p and inactivation of p16INK4a in normal epithelium of patients with primary lung cancer. *Genes, Chromosomes and Cancer* 32, 119-125, 2001.
- 39) Cairns P, **Esteller M**, Herman JG, Schoenberg M, Jeronimo C, Sanchez-Cespedes M, Chow NH, Grasso M, Wu L, Westra WB, Sidransky D. Molecular Detection of Prostate Cancer in Urine by GSTP1 Hypermethylation. *Clinical Cancer Research*, 7, 2727-30, 2001.
- 40) Sanchez-Cespedes M, Parrella P, Nomoto S, Cohen D, Xiao Y, **Esteller M**, Jeronimo C, Jordan RC, Nicol T, Koch WM, Schoenberg M, Mazzarelli P, Fazio VM, Sidransky D. Identification of a

mononucleotide repeat as a major target for mitochondrial DNA alterations in human tumors. *Cancer Research* 61, 7015-9, 2001.

- 41) **Esteller M**, Fraga MF, Guo M, Garcia-Foncillas J, Hedelfank I, Godwin AK, Trojan J, Vaurs-Barrière C, Bignon Y-J, Ramus S, Benitez J, Akiyama Y, Caldes T, Canal MJ, Rodriguez R, Capella G, Peinado MA, Borg A, Aaltonen LA, Ponder BA, Baylin SB, Herman JG. DNA methylation patterns in hereditary human cancer mimics sporadic tumorigenesis. *Human Molecular Genetics*, 10, 3001-7, 2001.

2002

- 42) **Esteller M**, Gaidano G, Goodman SN, Zagonel V, Capello D, Botto B, Rossi D, Gloghini A, Vitolo U, Carbone A, Baylin SB, Herman JG. Hypermethylation of the DNA repair gene O6-methylguanine DNA methyltransferase and survival of patients with diffuse large B-cell lymphoma. *The Journal of the National Cancer Institute*, 94, 26-32, 2002.
- 43) Laiho P, Launonen V, Lahermo P, **Esteller M**, Guo M, Herman JG, Mecklin JP, Järvinen H, Sistonen P, Kim KM, Shibata D, Houlston RR, Aaltonen LA. Low-level microsatellite instability in most colorectal carcinomas. *Cancer Research*, 62, 1166-70, 2002.
- 44) Osorio A, de la Hoya M, Rodriguez-Lopez R, Martinez-Ramirez M, Cazorla A, Granizo JJ, **Esteller M**, Rivas C, Caldes T, Benitez J. Loss of heterozygosity analysis at the BRCA loci in tumor samples from patients with familial breast cancer. *International Journal of Cancer*, 99, 305-9, 2002.
- 45) Fraga MF, Uriol E, Diego LB, Berdasco M, **Esteller M**, Cañal MJ, Rodriguez R. High performance capillary electrophoretic method for the quantification of 5-methyl 2'-deoxycytidine in genomic DNA: application to plant, animal and human cancer tissues. *Electrophoresis*, 23, 1677-1681, 2002.
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- 19) Huang THM, **Esteller M.** Chromatin Remodeling in Mammary Gland Differentiation and Breast Tumorigenesis. In: *The Mammary Gland as an Experimental Model*, Cold Spring Harbor Laboratory Press, 2010.
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- 3) **Esteller M.** Epigenetics in Biology and Medicine. CRC Press-Taylor and Francis Group, LLC. September 2007.

COMUNICATIONS IN INTERNATIONAL MEETINGS: 401

INVITED LECTURES IN INTERNATIONAL MEETINGS: 556

CHAIRED SESSIONS IN INTERNATIONAL MEETINGS: 109

TRAINED PhD STUDENTS: 39

CHAIRMAN AND ORGANIZER OF INTERNATIONAL MEETINGS:

1. "Cancer Epigenetics: DNA Methylation and Chromatin." CNIO-CCC, Madrid, December 2002.
2. "Molecular Biology of Brain Tumors" CNIO-IVO, Madrid, December 2004.
3. "Epigenetics and Chromatin: Transcriptional Regulation and Beyond." Foundation Juan March, Madrid, February 2005.
4. "Cancer Epigenetics: from Knowledge to Therapy", CNIO-Lilly Foundation, Madrid, March 2006.
5. "Epigenetics and New Therapies in Cancer". European School of Oncology-CNIO, Madrid, November 2007.
6. "The Role of Epigenetics in Hematological Malignancies", European Hematology Association, Mandelieu, France, February 2007.
7. "Ruth Sager Memorial Symposium on Cancer Genetics and Epigenetics". AACR, San Diego, April 2008.
8. "Interplay among Genetics, Epigenetics and non-coding RNAs". European Union-Marie Curie MC-GARD, Madrid, May 2008.
9. "Cancer Epigenetics and Biology Symposium". PEBC-IDIBELL, Barcelona, May 2009.
10. "DNA Methylomes in Health and Disease". European Union-CANCERDIP, Barcelona, June 2009.
11. "IDIBELL Cancer Conference on Sirtuins". PEBC-IDIBELL, Barcelona, October 2009.
12. Major Symposium "DNA Methylation in Cancer", American Association for Cancer Research Annual Meeting, Orlando, USA, April 2011.
13. "IDIBELL Cancer Conference on Metastasis and Angiogenesis". PEBC-IDIBELL, Barcelona, May 2011.
14. "IDIBELL Cancer Conference on Personalized Cancer Medicine". PEBC-IDIBELL, Barcelona, December 3-4 2012.
15. Cell Symposia on "Cancer Epigenomics", Sitges, Barcelona, October 6-8, 2013.
16. "50 Years of Histone Acetylation". Barcelona Conference on Epigenetics and Cancer, October 1-2, 2014.
17. "Keystone Symposia on MicroRNAs and Noncoding RNAs in Cancer", Keystone Resort, Colorado, USA, June 7-12, 2015.
18. The 2017 Human Genome Meeting (HGM2017), Human Genome Organization (HUGO), Barcelona, February 5-7, 2017.
19. 2nd International Symposium on Frontiers in Molecular Science "Non-Coding RNAs and Epigenetics in Cancer", University of Basel, Switzerland, June 21-23, 2017.
20. Opening Symposium of the Josep Carreras Leukaemia Research Institute "Genetics and Epigenetics of Leukemia and Lymphoma: From Knowledge to Applications", Badalona, Barcelona, September 19-20, 2019.
21. Personalized and Precision Medicine International Conference – PEMED 2021, Badalona, Barcelona, April 7-9, 2021.
22. Symposium "Updates on Genetics and Epigenetics of Haematological Malignancies: From Knowledge to Applications", Badalona, Barcelona, November 20-22, 2024.

SCIENTIFIC ADVISORY POSITIONS:**Associate Editor**

Cancer Research (2005), Oncogene (2005), The Lancet Oncology (2004), International Journal of Cancer (2004), Cellular Oncology (2004), Critical Reviews in Oncogenesis (2004), Clinical and Translational Oncology (2005), Journal of Gastroenterology and Hepatology (2004), Current Cancer Drug Targets (2005), Carcinogenesis (2005), Epigenetics (2005), Biotechniques (2006), PLoS Medicine (2006), Journal of Pathology (2008), Molecular Cancer Therapeutics (2008), European Journal of Clinical Investigation (2009), Clinical Epigenetics (2009), Genes, Chromosomes and Cancer (2009), Cell Cycle (2009), Molecular Cancer (2010), The Journal of the National Cancer Institute (2012), Genome Research (2014), RNA Biology (2018) and Molecular Oncology (2021).

Editor-in-Chief

Epigenetics (2007-present)

Manuscript reviewer:

50 Journals in the Area of Life Sciences including Nature, Cell, Science, Nature Genetics, Cancer Cell, Cancer Discovery, New England Journal of Medicine, Nature Medicine, Nature Cancer, Nature Review Genetics, Nature Review Cancer, PNAS, The Lancet, JAMA, The Lancet Oncology, Oncogene, Nucleic Acids Research, Cancer Research, Nature Communications, Journal of Biological Chemistry, Blood, Leukemia, Blood Cancer Discovery, PLoS Biology, Nature Methods, Nature Biotechnology, European Journal of Cancer, BMC Cancer, Carcinogenesis, Clinical Cancer Research, Gastroenterology, Biotechniques, Molecular Cancer Therapeutics, Journal of Medical Genetics, Nature Clinical Practice Oncology, Genome Medicine, PLoS Computational Biology, Nature Machine Intelligence, Human Molecular Genetics...

Grant and Award reviewer:

- ✓ 22 National and International Agencies including the American Association for Cancer Research (AACR), German, Swiss, Austrian, Italian, Dutch, Belgian, Portuguese, Luxembourg, Irish, Australian, Canadian and Spanish National Associations for Cancer Research (AECC), the Spanish Departments of Health and Science, Cancer Research UK (CRUK), Wellcome Trust, National Institutes of Health USA (NIH), European Union F.P. Programmes and the European Research Council (ERC).
- ✓ Coordinator of The Cancer Genome Atlas (TCGA) Project "Cancers of Unknown Primary Project." (2018-2022), National Cancer Institute (NCI), USA.
- ✓ Coordinator of The International Proteogenome Consortium (ICPC) Project "Proteogenomics of B-Cell Acute Lymphoblastic Leukemia" (2022-2023), National Cancer Institute (NCI), USA.
- ✓ Advisor Nobel Committee for Physiology or Medicine, Karolinska Institute, Sweden.