



CURRICULUM VITAE

Name: Luis António Marques da Costa

Date of Birth: June 8, 1961.
S.Paulo. Brazil

Present Title and Affiliation:

Director of the Oncology Division at Hospital de Santa Maria
Professor of Medicine & Biology of Cancer – Faculdade de Medicina de Lisboa
Principal Investigator of Instituto de Medicina Molecular (IMM) – Research Leader of
The Clinical Translational Oncology Research Unit at IMM.
Director of Clinical Research Center at CAML-Centro Académico de Medicina de
Lisboa.

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Research Theme/ Focus

My interests in clinical research have been focus in the area of bone metastases since 1995. The clinical projects were designed and developed in Lisbon (Hospital de Santa Maria) in collaboration with the Penn State University (Dr. Allan Lipton research team). We tested the clinical value of type I bone collagen fragments to monitor treatment response in patients with bone metastases. The results achieved were published and have been used as biochemical parameters of response in clinical trials testing new drugs to treat bone metastases.

The interpretation of some of the results observed in our previous research lead us to disclose the role of matrix metalloproteinases (MMPs) in osteoclast independent mechanisms of bone degradation. Since then we pursue the hypothesis that MMPs,

namely MMP1 have a central role in bone metastases progression and resistance to bisphosphonates. The purpose of this research is to identify biochemical pathway-based molecular targets and develop agents to intervene phenotypic cancer signaling in metastatic setting.

More recently, we became also interested in testing the role of collagen fragments derived from MMP1 activity over collagen type as growth/survival factors for cancer cells. In 2008 our Translational Research Unit was selected twice to receive the Therry Fox award. These basic research projects have been developed at IMM.

We are evaluating in a clinical trial the synergism interaction between bisphosphonates and taxanes in breast cancer and prostate cancer with bone metastases.

Over the years, we have been collaborating with Dr. Rakesh Kumar former chairman of Department of Molecular & Cellular Oncology UT M. D. Anderson Cancer Center, Houston, Texas in research projects involving human breast tumor samples from our institution. As an example we identified a correlation between the presence of lymph node metastases and the expression of paxillin in tumor samples. Our collaboration at the present is focus on Triple Negative Breast Cancer and in genomics of synchronous bilateral cancer, as part of the Global Cancer Genomics Consortium activities.

In the Oncology Division at Hospital de Santa Maria I have been collaborating as principal investigator of several international clinical trials (phase 2 and 3) testing the therapeutic effectiveness of new agents. Our division is active at the moment in 20 international clinical studies. In the last two years I have been acting as principal investigator in 12 clinical trials in breast cancer, as well as principal investigator of clinical trials testing new drugs for bone metastases (breast cancer; prostate cancer; other solid tumors).

Our Research Unit at Instituto de Medicina Molecular is now developing new projects to understand the relationship between estrogen dependence and cancer cell tropism to bone; and to determine the role of phospholipase C epsilon in Colon Cancer progression.

Education:

College in the city of Viseu-Portugal.	1978
Medical Education at the University of Lisbon	1979-1985
University degree in Medicine	1985

Professional Training – Hospital Appointments:

Internship, Hospital de Santa Maria. Lisbon	1986-1987
Residency and Fellowship in Internal Medicine, Hospital de Santa Maria, University of Lisbon.	1988-1993
Fellowship in Medical Oncology, Hospital de Santa Maria and Oncology Portuguese Institute,Lisbon	1990-1993

Visitor fellow at Hershey Medical Center (Grant from the Luso-American Foundation)	1992
Assistant Physician at the Oncology Unit, Hospital de Santa Maria, Lisbon	1993
Consultant in Oncology	1999
Chief in Oncology	2009
Director of the Oncology Division - Hospital de Santa Maria	Present situation
Coordinator of the Oncology Committee - Hospital de Santa Maria	Present situation

Academic Appointments:

Assistant Professor of Medicine, Faculdade de Medicina de Lisboa, University of Lisbon	1995-2002
PhD in Medical Oncology (Thesis on Bone Metastases) Professor of Medicine, Faculdade de Medicina de Lisboa, University of Lisbon	2002
Principal Investigator of the Molecular Medicine Institute (IMM) University of Lisbon	2002
Visiting Professor at the M.D. Anderson Cancer Center	2003, 2004
Head of the Clinical Translational Oncology Research Unit (CTORU) at IMM	2007-present
Member of Board Directors from the Master Course in Palliative Medicine at University of Lisbon	2004 – present
Member of Board Directors from the Master Course in Clinical Oncology and Oncobiology	2012 - present
Member of the Editorial board of Harvard Medical School Portugal Program	2011 - present
Coordinator Professor of “Oncobiologia” – Teaching Unit at school of Medicine Faculdade de Medicina de Lisboa	2009-present

Certification:

Certified Portuguese Board of Internal Medicine
 Certified Portuguese Board of Medical Oncology
 Certified member of ESMO (European Society of Medical Oncology)

Medical and Scientific Societies:

Portuguese Board of Internal Medicine
Portuguese Board of Medical Oncology
American Society of Medical Oncology
European Society of Medical Oncology
European Association for Cancer Research
ASPIC, Associação Portuguesa de Investigação em Cancro.
Member of the Direction Committee of the Portuguese Society of Oncology (2003-5)
Portuguese representative of the Global Cancer Genomics Consortium
Member of the Scientific Program Committee for 12th International Conference on Cancer-Induced Bone Disease (Lyon, 2012).

Research support:

Principal Investigator, Prognostic Signatures in Colorectal Cancer (PSCC).
FCT: PIC/IC/82821/2007
FLAD: support to PhD in Oncology – 2002.
Principal Investigator, Analysis of RANK/RANKL and MMPs in clinical samples of solid tumors bone metastases – 2008-2010, Amgen, inc, USA –
Multi-Functional Bone Seeking Agents for the Treatment of Skeletal Metastatic Disease. Coordinator: Luis Costa. FCT, PTDC/QUI-QUI/115712/2009, - 2011/2014

Reviewer of Scientific Manuscripts

Annals of Oncology; Bone; British Journal of Cancer; Critical Reviews in Oncology/Hematology; Cancer Letters; European Journal of Cancer; Breast Cancer Research and Treatment; The Oncologist; Cancer Treatment Reviews; Therapeutic Advances in Medical Oncology; The Breast; Lancet Oncology; Drugs; Lancet.
Member of the Editorial board of Harvard Medical School Portugal Program
Member of the Editorial Board - Journal of Bone Oncology (JBO)
Member of the Editorial Board – Plos One

Expert Reviewer of Grants

European Research Council
Cancer Research UK
Member of CAIBER Evaluators Panel (Spanish Clinical Research Network)
French National Cancer Institute
Committee of INSERM unit evaluation

Main publications:

Biochemical markers of bone turnover in patients with metastatic bone disease.
Laurence M.Demers, **Luis Costa**, Vernon Chinchilli, Allan Lipton.
Clinical Chemistry, vol.41 n°10:1489-1494, 1995.

Effect of Fadrozole Hydrochloride (CGS 16949) on cholesterol, lipid, and hemostatic parameters in women with advanced breast cancer.
L.Costa, M.Kopreski, V.Chinchilli, R.Santen, H.Harvey, A.Lipton.
Cancer 85(1) 100-103, 1999.

Markers of Bone Resorption in Patients Treated with Pamidronate.
A.Lipton, L.Demers, E.Curley, V.Chinchilli, L.Gaydos, G.Hortobagyi, R.Theriault, D.Clemens, **L.Costa** et al.
European Journal of Cancer vol.33, n°13, 2021-2026, 1998.

Transcriptional Up-Regulation of Paxillin Expression by Heregulin in Human Breast Cancer Cells.
R. Vadlamudi, L.Adam, B.Tseng, **L.Costa**, R.Kumar.
Cancer Research 59 (12): 2843-2846, June 15, 1999.

Biochemical markers and Skeletal metastases.
Laurence Demers, **Luis Costa**, Allan Lipton.
Cancer suppl. Vol. 88: 2919-2926, June 15, 2000.

Bone markers in the management of metastatic bone disease.
A.Lipton, **L.Costa**, S.M.Ali and L.M.Demers.
Cancer Treatment Reviews, suppl. 1-5, 2001

Growth Factors regulate heterogeneous Nuclear Ribonucleoprotein K expression and Function.
Manitosh Mandal, Ratna Vadlamudi, Diep Nguyen, Rui-An Wang, **Luis Costa**, Rozita Bagheri-Yarmand, John Mendelson and Rakesh Kumar.
Journal of Biological Chemistry vol.276, n°13:9699-9704, 2001.

Safety and efficacy of bisphosphonates beyond 24 months in cancer patients.
S.M.Ali, F.J.Esteva, G.Hortobagyi, H.Harvey, J.Seaman, R.Knight, **L.Costa**, A.Lipton.
Journal of Clinical Oncology vol. 19, n°14: 3434-3437, 2001.

Use of markers of bone turnover for monitoring bone metastases and the response to therapy.
Allan Lipton, **Luis Costa**, Suhail Ali, Laurence Demers.
Seminars in Oncology vol.28, n°4, suppl 11: 54-59, 2001.

Prospective evaluation of the peptide-bound collagen type I cross-links N-telopeptide and C-telopeptide in predicting bone metastases status.

Luis Costa, Laurence M. Demers, A. Gouveia-Oliveira, J. Schaller, Eduardo B. Costa, Miguel C. Moura, Allan Lipton.

Journal of Clinical Oncology, vol. 20: 850-856, 2002.

Biochemical Markers and Skeletal Metastases

Laurence Demers, **Luis Costa**, Allan Lipton

Clinical Orthopaedics and Related Research, nº 415S, pp 1-10, 2003.

Baseline serum NTx Levels are Prognostic in Metastatic Breast Cancer Patients with Bone-only Metastasis

S.M. Ali, L.M. Demers, K. Leitzel, H.A. Harvey, D. Clemens, N. Mallinack, L. Engle, V. Chinchilli, **L. Costa**, C. Brady, J. Seaman & A. Lipton.

Annals of Oncology 15: 455- 459, 2004

“Role of Bisphosphonates for the Management of Skeletal Complications and Bone Pain from Skeletal Metastases”

Luis Costa; Allan Lipton and Robert Coleman

Supportive Cancer Therapy vol. 3, nº 3: 143-153, 2006

“Guidance on the use of bisphosphonates in solid tumours: recommendations of an international expert panel”

M. Aapro, P. A. Abrahamsson, J. J. Body, R. E. Coleman, R. Colomer, **L. Costa**, L. Crino, L. Dirix, M. Gnant, J. Gralow, P. Hadji, G. N. Hortobagyi, W. Jonat, A. Lipton, A. Monnier, A. H. G. Paterson, R. Rizzoli, F. Saad & B. Thurlimann.

Annals of Oncology 19(3):420-432, 2008

“Bisphosphonates: Reducing the risk of skeletal complications from bone metastasis”

L. Costa

Breast Dec; 16 suppl 3: S16-20; 2007

“Low molecular weight protein tyrosine phosphatase genetic polymorphism and susceptibility for cancer development”

Irina Alho, Maria Clara Bicho, Raquel Carvalho, Alda Pereira da Silva, **Luis Costa**, Manuel Bicho.

Cancer Genetics and Cytogenetics 181 (2008): 20-24

“Clinical Characteristics and Therapeutic Options in Paget Disease of The Breast”

Isabel Fernandes, João Borges da Costa, Luis Soares de Almeida, Maria Pires de Miranda, Luis Costa, Marques Gomes.

Skin cancer. Vol 22, nº2 June 2007: 65-68

“Impact of Skeletal Complications on Patients' Quality of Life, Mobility, and Functional Independence”

Luis Costa, Xavier Badia; Edward Chow; Allan Lipton; Andrew Wardley
Supportive Care in Cancer (2008): 16: 879-889

“Effect of Bisphosphonates on Pain and Quality of Life in Patients With Bone Metastases”

Luis Costa and Pierre P Major.

Nature Clinical Practice Oncology (2009) vol. 6, n° 3: 163-174

“^{99m}Tc-Tricarbonyl Complexes Functionalized 1 with Anthracenyl Fragments: Synthesis, Characterization and Evaluation of Their Radiotoxic Effects in Murine Melanoma Cells

Rute F. Vitor, Teresa Esteves, Fernanda Marques, Paula Raposinho, Antonio Paulo, Sebastiao Rodrigues, Jose Rueff, Sandra Casimiro, **Luis Costa** and Isabel Santos.

Cancer Biotherapy & Radiopharmaceuticals (2009)

“Phase I Trial of Zoledronic Acid + Imatinib Mesylate (Gleevec) in Patients With Bone Metastases”

Lipton A, Campbell Baird C, Harvey H, Kim C, Demers L, **Costa L.**

Am J Clin Oncol. (2010) Feb; 33(1):75-8.

“Prognostic Factors for Skeletal Complications From Metastatic Bone Disease in Breast Cancer”

Janet E. Brown, MD; Richard J Cook; Allan Lipton; **Luis Costa**; Robert E Coleman

Breast Cancer Res Treat (2010) 123:767–779

Zoledronic Acid: Its Use in the Treatment of Breast Cancer.

Luis I, Casimiro S, Ribeiro J and **Costa L**

Clinical Medicine Insights: Therapeutics (2010) 2, 903-926.

“Optimizing Clinical Benefits of Bisphosphonates in Cancer Patients With Bone Metastases”

Matti Aapro, Fred Saad, **Luis Costa**

The Oncologist (2010): Volume 15, Issue #11, pages 1147-1158

“ A Randomized, Double-blind Study of Denosumab Versus Zoledronic Acid in the Treatment of Bone Metastases in Patients With Advanced Cancer (Excluding Breast and Prostate Cancer) or Multiple Myeloma”

David Henry, **Luis Costa**, Francois Goldwasser, Vera Hirsh, Vania Hungria, Jana Prausova, Giorgio Vittorio Scagliotti, Harm Sleeboom, Andrew Spencer, Saroj Vadhan-Raj, Roger von Moos, Wolfgang Willenbacher, Penella J Woll, Jianming Wang, Qi Jiang, Susie Jun, Roger Dansey, Howard Yeh.

J Clin Oncol (2011), Volume 29, n° 9, pages: 1125-1132

“ Anticancer evidence for zoledronic acid across the cancer continuum”
Luis Costa, Peter Harper, Robert Coleman, Allan Lipton
Critical Reviews in Oncology/Hematology 2011 Feb; 77 Suppl 1:S31-7. Review

“Consensus on the Utility of Bone Markers in the Malignant Bone Disease Setting”.
R. Coleman; **L. Costa**; et al
Critical Reviews in Oncology/Hematology (2011) Dec;80 (3):411-32. Epub 2011 Mar 15

“Lactoferrin- Endothelin-1 Axis Contributes to the Development and Invasiveness of Triple Negative Breast Cancer Phenotypes”
Ngoc-Han Ha, Vasudha Nair, Divijendra Natha Sirigiri Reddy, Prakriti Mudvari, Kazufumi Ohshiro, Krishna Sumanth Ghanta, Suresh B. Pakala, Da-Qiang Li, **Luis Costa**, Allan Lipton, Rajendra A. Badwe, Suzanne Fuqua, Margaretha Wallon, George C.Prendergast, and Rakesh Kumar
Cancer Res. 2011 Dec 1;71(23):7259-7269. Epub 2011 Oct 17

“Analysis of a bone metastasis gene expression signature in patients with bone metastasis from solid tumors”
Casimiro S, Luis I, Fernandes A, Pires R, Pinto A, Gouveia AG, Francisco AF, Portela J, Correia L, **Costa L.**
Clin Exp Metastasis. 2012 Feb;29(2):155-64. doi: 10.1007/s10585-011-9438-0. Epub 2011 Nov 26

“Bone Turnover markers: Tools for prognosis and monitoring response to bisphosphonates”
Lipton A, **Costa L**, Coleman RE.
Breast Dis. 2011 Jan 1;33(2):59-69.

“Hospital Resource Utilization and Treatment Cost of Skeletal-Related Events in Patients with Metastatic Breast or Prostate Cancer: Estimation for the Portuguese National Health System”
J. Félix, V. Andreozzi, M. Soares, P. Borrego, H. Gervásio, A. Moreira, L. Costa, F. Marcelo, F. Peralta, I. Furtado, F. Pina, C. Albuquerque, A. Santos, J.L. Passos-Coelho, for the Portuguese Group for the Study of Bone Metastases
VALUE IN HEALTH 14 (2011) 499 – 505

“Castration-resistant Prostate Cancer: Mechanisms, Targets and Treatment”.
Teresa Maria Santos Amaral, Daniela Macedo, Isabel Fernandes, **Luis Costa**
Prostate Cancer. 2012;2012:327253. Epub 2012 Mar 5.

"Antiresorptive treatment options and bone health in cancer patients—safety profiles and clinical considerations"

Peyman Hadji a,† , Matti Aapro b,e, **Luis Costa** c,f, Michael Gnant

Cancer Treat Rev. 2012 Apr 4. [Epub ahead of print]

"Adjuvant Bisphosphonate Treatment for Breast Cancer: Why did something so elegant become so complicated?"

Clemons M, Russell K, **Costa L**, Addison CL.

Breast Cancer Res Treat. 2012 May 5. [Epub ahead of print]

"Adjuvant bisphosphonate treatment for breast cancer: where are we heading and can the preclinical literature help us get there?"

Kent Russell, MD; Mark Clemons, MD; **Luis Costa**; Christina Lynn Addison, PhD

JBO, 2012

"Treatment of Bone Metastases Prior to the Onset of Pain"

Costa L, Lipton A, Hadji P, Chen YM, Kosmidis P.

Int J Clin Oncol. 2012 May 11. [Epub ahead of print]

"The Global Cancer Genomics Consortium: Interfacing Genomics and Cancer Medicine"

Eswaran J, Gupta S, Dutt A, Toi M, Pillai MR, **Costa L**, Knapp S, Badwe RA, Kumar R.

Cancer Res. 2012 May 24. [Epub ahead of print]

"Prognostic significance of AKT/mTOR signaling in advanced neuroendocrine tumors treated with somatostatin analogs."

Isabel Fernandes, Teresa R Pacheco, Adília Costa, Ana C Santos, Ana R Fernandes, Mara Santos, António G Oliveira, Sandra Casimiro, António Quintela, Afonso Fernandes, Madalena Ramos, Luís Costa

Oncotargets Ther. 2012; 5: 409–416. Published online 2012 November 28. doi: 10.2147/OTT.S36330

"Weighing Bone-targeted Treatment Options for Patients with Solid Tumours and Skeletal Complications from Metastatic Disease"

Lesley Fallowfield, Roger von Moos, Luis Costa, et al.

European Oncology & Haematology, 2012;8(3):148–55

"MTA1 promotes STAT3 transcription and pulmonary metastasis in breast cancer."

Pakala SB, Rayala SK, Wang RA, Ohshiro K, Mudvari P, Reddy SD, Zheng Y, Pires R, Casimiro S, Pillai MR, Costa L, Kumar R.

Cancer Res. 2013 Apr 16. [Epub ahead of print]

“The role of low-molecular-weight protein tyrosine phosphatase (LMW-PTP ACP1) in oncogenesis.”

Alho I, Costa L, Bicho M, Coelho C.

Tumour Biol. 2013 Apr 14. [Epub ahead of print]

“Characterization of low molecular weight protein tyrosine phosphatase isoforms in human breast cancer epithelial cell lines.”

Alho I, Costa L, Bicho M, Coelho C.

Anticancer Res. 2013 May;33(5):1983-7.

"RANKL/RANK/MMP-1 Molecular Triad Contributes to the Metastatic Phenotype of Breast and Prostate Cancer Cells In Vitro."

Casimiro S, Mohammad KS, Pires R, Tato-Costa J, Alho I, et al.

PLoS ONE 8(5): e63153. doi:10.1371/journal.pone.0063153

“RANKL enhances the effect of an antagonist of inhibitor of apoptosis proteins (cIAPs) in RANK-positive breast cancer cells.”

S. Casimiro, I. Alho, M. Bettencourt, R. Pires, A. Lipton, L. Costa

Journal of Bone Oncology 2013. In press

"Novel Insights into Breast Cancer Genetic Variance through RNA Sequencing."

Horvath A, Pakala SB, Mudvari P, Reddy SDN, Ohshiro K, Casimiro S, Pires R, Fuqua SAW, Polyak K, Costa L, Toi M, Nair S, Sukumar S, Kumar R

Scientific Reports 2013, Sci Rep. 2013 Jul 25;3:2256. doi: 10.1038/srep02256.

“Low Molecular Weight Protein Tyrosine Phosphatase Isoforms Regulate Breast Cancer Cells Migration through a RhoA Dependent Mechanism.”

Alho I, Costa L, Bicho M, Coelho C.

PLoS One. 2013 Sep 27;8(9):e76307.

“Delaying skeletal-related events in a randomized phase 3 study of denosumab versus zoledronic acid in patients with advanced cancer: an analysis of data from patients with solid tumors.”

Henry D, Vadhan-Raj S, Hirsh V, von Moos R, Hungria V, Costa L, Woll PJ, Scagliotti G, Smith G, Feng A, Jun S, Dansey R, Yeh H.

Support Care Cancer. 2013 Oct 26. [Epub ahead of print]

“Which bisphosphonate to treat bone metastases?”

Costa L.

Lancet Oncol. 2014 Jan;15(1):15-6. doi: 10.1016/S1470-2045(13)70583-7. Epub 2013 Dec 11. No

“Carboplatin-, Oxaliplatin-, and Cisplatin-specific IgE: Cross-reactivity and Value in the Diagnosis of Carboplatin and Oxaliplatin Allergy.”

Caiado J, Venemalm L, Pereira-Santos MC, Costa L, Barbosa MP, Castells M. *J Allergy Clin Immunol Pract.* 2013 Sep-Oct;1(5):494-500. doi: 10.1016/j.jaip.2013.06.002. Epub 2013 Aug 30

“The global cancer genomics consortium’s third annual symposium: from oncogenomics to cancer care”

Luis Costa Sandra Casimiro, Sudeep Gupta, Stefan Knapp, M. Radhakrishna Pillai, Masakazu Toi, Rajendra Badwe, Maria Carmo-Fonseca, and Rakesh Kumar.

Genes & Cancer, Advance Publications 2014, May 14.

“Metadherin expression and lung relapse in patients with colorectal carcinoma.”

Casimiro S, Fernandes A, Oliveira AG, Franco M, Pires R, Peres M, Matias M, Tato-Costa J, Guerra N, Ramos M, Cruz J, Costa L.

Clin Exp Metastasis. 2014 Aug;31(6):689-96. doi: 10.1007/s10585-014-9659-0. Epub 2014 Jun 20.

“Bisphosphonates in adjuvant setting for breast cancer: a review of the meta-analysis of bisphosphonate’s effects on breast cancer recurrence presented in December 2013 at San Antonio Breast Conference”

Luis Costa

Current Opinion in Supportive & Palliative Care. Accepted, September 2014.

“The global cancer genomics consortium’s symposium: new era of molecular medicine and epigenetic cancer medicine - cross section of genomics and epigenetics”

Masakazu Toi, M. Radhakrishna Pillai, Sudeep Gupta, Rajendra Badwe, Maria Carmo-Fonseca, Luis Costa, Louis WC Chow, Stefan Knapp, and Rakesh Kumar.

Genes & Cancer, Advance Publications, December 2014.

Invited Lectures (selection of last 10 years)

What do Bone Markers tell us about Clinical Status and Pathophysiology in Bone Metastases?

M.D. Anderson Cancer Center; December 2003

Endocrine Therapy in Breast Cancer: Clinical Aspects
XIV Porto Cancer Meeting –IPATIMUP; April 2004

Parathyroid Hormone-related Protein (PTHrP) in Breast Cancer Metastasis
M.D. Anderson Cancer Center; December 2004

The Role of Bisphosphonates in Breast Cancer
Second Central European Cooperative Oncology Group
Vienna; June 2005

Coosing the Optimum Treatment for Bone Complications
17th MASCC (Multinational Association of Supportive Care in Cancer);
Geneve, July 2005

The Role of RANK Ligand in Cancer-induced Bone Disease
Expanding Therapeutic Options in Oncology
Vienna; September 2006

Bone Metastasis: Preserving Patient Functional Independence
European Society of Medical Oncology
Istanbul; September 2006

“Maintaining patient autonomy: management of metastatic disease”
Luis Costa
Third Educational Breast Care Meeting
Conference designated for CME credit
Barcelona, May,2 - 2007

“Adjuvant Hormonal Treatment of Breast Cancer”
Luis Costa
20th European Congress of Obstetrics and Gynecology
Lisbon, March, 6 -2008

“Optimizing bisphosphonate therapy in breast and prostate cancers: How to better prevent bone complication?”
Invited speaker at oncology grand rounds
University of Alberta
Edmonton; September 17, 2008

“ Clinical Impact of Bone-Targeted Therapies in Cancer”
Invited speaker at Gregorio Marañon Hospital, Madrid. January 17, 2011

“Established Benefits of Bisphosphonates in Early Breast Cancer”

Special lecture at the 8th Kyushu Regional Meeting of the Japanese Breast Cancer Society, Japan February 19- 2011

“Metastases Prevention in Breast Cancer”
Skeletal Care Academy; Madrid; February 25, 2011.

“Molecular Therapy in Breast Cancer with Bone Metastases”
The 1st Global Cancer Genomics Consortium. TMC Symposium: the interface between genomics and cancer medicine. Mumbai, India (2011)

“mTOR pathway: a common target in cancer or just a co-target ?”
XXI Porto Cancer Meeting. 20 of April- 2012

“ Clinical Impact of Bone-Targeted Therapies in Patients with Bone Metastases”
Grand rounds of Oncology. Cancer Care Manitoba – University of Manitoba
May 7, 2012. Winnipeg, Canada.

“Bone-Targeted therapies in Bone Metastases: clinical impact and expectations”
Grand rounds of Hematology & Oncology; Princess Margaret Hospital
May 10, 2012 Toronto, Canada.

“A New era in skeletal health for patients with solid tumors. The science behind the success”
3rd International Lung Cancer Seminar.
September 8, 2012, Tinos Island Greece.

“Accelerating drug discovery: form bench to bedside”
Young Master Class.
37th ESMO congress
September 28, 2012. Vienna – Austria

“ Management of Bone Metastases”
St. Vicent’s Univeristy Hospital
March 7, 2013. Dublin – Ireland

“Improving the medical management of bone metastases”
Challenging Metastatic Cancer: Remodelling Management- Evolution or Revolution?
Holiday Inn London – Kesington Forum. Royal College of Physicians Code: 80650
April 17, 2013. London

“Oncologic treatment of tumors with disorders of the ALK gene”
European Congress of Pathology.
September 2, 2013. Lisbon.

“Difficulties in Pharmacogenomics Clinical Studies in Cancer”

3rd ESPT Pharmacogenomics Advanced Training Course.
September 25, 2013. Lisbon

“Treatment of bone metastases from breast cancer”
February 22, 2014. Madrid
Innovation in Breast Cancer – IBC 2014

“Re-visiting the vicious cycle in bone metastases: Host Variability and Oncodynamics.”
OHRI Lab Seminar

“Current & Novel Therapies for Bone Metastases -
Moving away from bone-targeted agents? Current agents, indicators of response,
sensitivity and resistance ”
2014 Bonus 9 Meeting organized by the Ottawa Hospital Cancer Centre.
April 24-25 Canada.

“The current status of treatment of cancer-related bone disease”
Haukeland University Hospital, Bergen.
May 14, 2014
Norway

“An update in the management of bone metastases in patients with solid tumours:
overview of the clinical data and practicalities of management”
June 10, 2014. London
Update on the Optimization of Care for Cancer Patients with Bone Metastases: a meeting
for Healthcare Professionals at the Royal College of Obstetricians and Gynecologists,
Regent's Park London.

"Cancer Metastases: is bone a useful paradigm?"
1st ASPIC International Congress
F. Calouste Gulbenkian, Lisboa 26 of November-2014

International Advisory Boards in Bone Metastases:

Since 2001 is regularly invited to participate in International Advisory Boards as an expert in bone metastases field and in the treatment of breast cancer. During these meetings is called to provide is input in the development of scientific research programs (translational research and clinical studies) regarding new therapeutic targets.