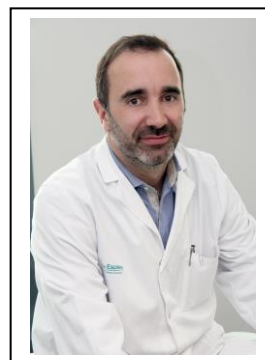


Curriculum Vitae

Borja G. Cosio, MD, PhD



PERSONAL DETAILS

Date of birth: 6/08/70

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Home Address: Joan Riutort 8
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QUALIFICATIONS

- Medical Degree : Graduate in Medicine (Jun 94). Universidad Complutense, Madrid, Spain
- Specialist Qualification in Respiratory Medicine (May 2000). Hospital Universitario 12 de Octubre, Madrid, Spain
- PhD: Doctorate in Medicine (Oct 2005). Universidad de las Islas Baleares (A with honors).

RESEARCH

- Director of the Research Unit. Hospital Son Espases (since 2013)
- Member of the Research Board. Hospital Son Dureta-Son Espases (since 2009)
- Director of the Corporate Program in COPD of the Spanish network in Respiratory Research (Ciberes) and executive member of the scientific board in the COPD corporate program (since 2009 until December 2015).
- Director of the scientific board in the COPD program of the Spanish Society of Respiratory Medicine (Separ) (since 2013)
- Member of the editorial board of the American Journal of Respiratory and Critical Care Medicine since January 2011

- Editor of *Archivos de Bronconeumología*, the official peer-reviewed journal of the Spanish Society of Respiratory Medicine (Separ), (from 2010 to 2013)
- Honorary Clinical Research Fellow at the Royal Brompton Hospital (2000-2003)

TEACHING

- Professor and coordinator. Master in Respiratory Medicine, University Pompeu Fabra, Barcelona, Spain (2007-2009)
- Associated Professor. Master in pathology of the elderly, University of Islas Baleares, Spain (2010)
- Professor and coordinator. Master in Respiratory Medicine, University of Islas Baleares, Spain (since 2010)
- Speaker in more than 15 CME courses and conferences per year.

POST-REGISTRATION APPOINTMENTS

- Sept 03-to date: Consultant in Respiratory Medicine. Hospital Son Dureta/Son Espases. Palma de Mallorca. Spain.
- Sept 01- May 03: Clinical Research Fellow at the National Heart and Lung Institute & Royal Brompton Hospital (Prof.Peter Barnes and Prof K Fan Chung).
- Sept 00-Sept01: European Respiratory Society Fellowship at the National Heart and Lung Institute & Royal Brompton Hospital (Prof.Peter Barnes).

PRE-REGISTRATION APPOINTMENTS

- Jul 92-Sep92: City Hospital of Edinburg, Scotland (Responsible to Dr.W.Mac Nee-Respiratory Consultant).
- Jul 93-Sep 93: Boston VA Medical Center, USA (Responsible to Dr.Snider-Respiratory Consultant).

MOST RELEVANT RECENT PUBLICATIONS

- 1) **Cosio BG**, Soriano JB, López-Campos JL, Calle M, Soler JJ, de-Torres JP, Marín JM, Martínez C, de Lucas P, Mir I, Peces-Barba G, Feu-Collado N, Solanes I, Alfageme I; CHAIN study. Distribution and Outcomes of a Phenotype-Based Approach to Guide COPD Management: Results from the CHAIN Cohort. PLoS One. 2016 Sep 29;11(9):e0160770. doi: 10.1371/journal.pone.0160770.

- 2) **Cosío BG**, Shafiek H, Iglesias A, Yanez A, Córdova R, Palou A, Rodríguez-Roisin R, Peces-Barba G, Pascual S, Gea J, Sibila O, Barnes PJ, Agusti A. Oral Low-dose Theophylline on Top of Inhaled Fluticasone-Salmeterol Does Not Reduce Exacerbations in Patients With Severe COPD: A Pilot Clinical Trial. *Chest*. 2016 Jul;150(1):123-30.
- 3) Plaza V, López-Viña A, Entrenas LM, Fernández-Rodríguez C, Melero C, Pérez-Llano L, Gutiérrez-Pereyra F, Tarragona E, Palomino R, **Cosío BG**. Differences in Adherence and Non-Adherence Behaviour Patterns to Inhaler Devices Between COPD and Asthma Patients. *COPD*. 2016 Oct;13(5):547-54.
- 4) Faner R, Sobradillo P, Noguera A, Gomez C, Cruz T, López-Giraldo A, Ballester E, Soler N, Arostegui JI, Pelegrín P, Rodríguez-Roisin R, Yagüe J, **Cosío BG**, Juan M, Agustí A. The inflammasome pathway in stable COPD and acute exacerbations. *ERJ Open Res*. 2016 Jul 11;2(3). pii: 00002-2016.
- 5) Shafiek H, Valera JL, Togores B, Torrecilla JA, Sauleda J, **Cosío BG**. Risk of postoperative complications in chronic obstructive lung diseases patients considered fit for lung cancer surgery: beyond oxygen consumption. *Eur J Cardiothorac Surg*. 2016 Apr 7. pii: ezw104.
- 6) Sibila O, Garcia-Bellmunt L, Giner J, Rodrigo-Troyano A, Suarez-Cuartin G, Torrego A, Castillo D, Solanes I, Mateus EF, Vidal S, Sanchez-Reus F, Sala E, **Cosío BG**, Restrepo MI, Anzueto A, Chalmers JD, Plaza V. Airway MUC2 is Decreased in Severe COPD Patients with Bacterial Colonization. *Ann Am Thorac Soc*. 2016 May;13(5):636-42
- 7) van Boven JF, Román-Rodríguez M, Palmer JF, Pons NT, **Cosío BG**, Soriano JB. Comorbidity, pattern and impact of asthma-COPD overlap syndrome (ACOS) in real-life. *Chest*. 2015 Dec 14. pii: S0012-3692(15)00294-9. doi: 10.1016/j.chest.2015.12.002. [Epub ahead of print]
- 8) **Cosío BG**, Soriano JB, López-Campos JL, Calle-Rubio M, Soler-Cataluña JJ, de-Torres JP, Marín JM, Martínez-Gonzalez C, de Lucas P, Mir I, Peces-Barba G, Feu-Collado N, Solanes I, Alfageme I, Casanova C. Defining the Asthma-COPD overlap syndrome in a COPD cohort. *Chest*. 2016;149(1):45-52.

- 9) **Cosío BG**, Jahn A, Iglesias A, Shafiek H, Busquets X, Agustí A. Haemophilus influenzae induces steroid-resistant inflammatory responses in COPD. BMC Pulm Med. 2015 Dec 7;15:157.
- 10) Shafiek H, Fiorentino F, Merino JL, López C, Oliver A, Segura J, de Paul I, Sibila O, Agustí A and **Cosío BG**. Using the Electronic Nose to Identify Airway Infection during COPD Exacerbations. PLoS ONE (2015) 10(9): e0135199. doi:10.1371/journal.pone.0135199
- 11) Polverino F, **Cosío BG**, Pons J, Lacho-Contreras M, Tejera P, Iglesias A, Rios A, Jahn A, Sauleda J, Divo M, Pinto-Plata V, Sholl L, Rosas IO, Agustí A, Celli BR, Owen CA. B-cell Activating Factor: An Orchestrator of Lymphoid Follicles in Severe COPD. Am J Respir Crit Care Med. 2015 Sep 15;192(6):695-705.
- 12) Sibila O, Garcia-Bellmunt L, Giner J, Rodrigo-Troyano A, Suarez-Cuartin G, Torrego A, Castillo D, Solanes I, Mateus EF, Vidal S, Sanchez-Reus F, Sala E, **Cosío BG**, Restrepo MI, Anzueto A, Chalmers JD, Plaza V. Airway MUC2 is Decreased in Severe COPD Patients with Bacterial Colonization. Ann Am Thorac Soc. 2016 Feb 16. [Epub ahead of print]
- 13) Plaza V, López-Viña A, Entrenas LM, Fernández-Rodríguez C, Melero C, Pérez-Llano L, Gutiérrez-Pereyra F, Tarragona E, Palomino R, **Cosío BG**. Differences in Adherence and Non-Adherence Behaviour Patterns to Inhaler Devices Between COPD and Asthma Patients. COPD. 2016 Jan 20:1-8.
- 14) van Boven JF, Román-Rodríguez M, Palmer JF, Pons NT, **Cosío BG**, Soriano JB. Comorbidity, pattern and impact of asthma-COPD overlap syndrome (ACOS) in real-life. Chest. 2015 Dec 14. pii: S0012-3692(15)00294-9. doi: 10.1016/j.chest.2015.12.002. [Epub ahead of print]
- 15) Shafiek H, Fiorentino F, Merino JL, López C, Oliver A, Segura J, de Paul I, Sibila O, Agustí A, **Cosío BG**. Using the Electronic Nose to Identify Airway Infection during COPD Exacerbations. PLoS One. 2015 Sep 9;10(9):e0135199.

- 16) Miravittles M, Alcázar B, Alvarez FJ, Bazús T, Calle M, Casanova C, Cisneros C, de-Torres JP, Entrenas LM, Esteban C, García-Sidro P, **Cosío BG**, Huerta A, Iriberry M, Izquierdo JL, López-Viña A, López-Campos JL, Martínez-Moragón E, Pérez de Llano L, Perpiñá M, Ros JA, Serrano J, Soler-Cataluña JJ, Torrego A, Urrutia I, Plaza V. What pulmonologists think about the asthma-COPD overlap syndrome. *Int J Chron Obstruct Pulmon Dis*. 2015 Jul 15;10:1321-30. doi: 10.2147/COPD.S88667
- 17) Plaza V, Fernández-Rodríguez C, Melero C, **Cosío BG**, Entrenas LM, Pérez de Llano L, Gutiérrez-Pereyra F, Tarragona E, Palomino R, López-Viña A. Validation of the 'Test of the Adherence to Inhalers' (TAI) for asthma and COPD patients. *J Aerosol Med Pulm Drug Deliv*. 2015 Jul 31. [Epub ahead of print]
- 18) Scrimini S, Pons J, Agustí A, Clemente A, Sallán MC, Bauçà JM, Soriano JB, **Cosío BG**, Lopez M, Crespi C, Sauleda J. Expansion of myeloid-derived suppressor cells in chronic obstructive pulmonary disease and lung cancer: potential link between inflammation and cancer. *Cancer Immunol Immunother*. 2015 Oct;64(10):1261-70.
- 19) Casanova C, Marin JM, Martinez-Gonzalez C, de Lucas-Ramos P, Mir-Viladrich I, **Cosío B**, et al; for the COPD History Assessment In SpaiN (CHAIN) cohort. Differential effect of mMRC dyspnea, CAT and CCQ for symptom evaluation within the new GOLD staging and mortality in COPD. *Chest*. 2015 Jan 22. doi: 10.1378/chest.14-2449.
- 20) Echave-Sustaeta JM, Comeche Casanova L, **Cosío BG**, Soler-Cataluña JJ, Garcia-Lujan R, Ribera X. Comorbidity in chronic obstructive pulmonary disease. Related to disease severity? *Int J Chron Obstruct Pulmon Dis*. 2014 Nov 19;9:1307-14.
- 21) Shafiek H, Gómez C, Pierola J, Sauleda J, **Cosío BG**. Probe-Based Confocal Laser Endomicroscopy Imaging of Endobronchial Hamartomas. *Respiration*. 2014 Nov 14. [Epub ahead of print]
- 22) Sibila O, Garcia-Bellmunt L, Giner J, Merino JL, Suarez-Cuartin G, Torrego A, Solanes I, Castillo D, Valera JL, **Cosío BG**, Plaza V, Agusti A. Identification of

- airway bacterial colonization by an electronic nose in Chronic Obstructive Pulmonary Disease. *Respir Med.* 2014 Sep 19. pii: S0954-6111(14)00319-9.
- 23) Grosdidier S, Ferrer A, Faner R, Piñero J, Roca J, **Cosío B**, Agustí A, Gea J, Sanz F, Furlong LI. Network medicine analysis of COPD multimorbidities. *Respir Res.* 2014 Sep 24;15(1):111.
- 24) Sanz-Santos J, Serra M, Gallego M, Montón C, **Cosio B**, Sauleda J, Fernández-Villar A, García-Luján R, de Miguel E, Cordovilla R, Varela G, Cases E, Andreo F, Monsó E. Determinants of false-negative results in non-small-cell lung cancer staging by endobronchial ultrasound-guided needle aspiration. *Eur J Cardiothorac Surg.* 2014 Jul 8. pii: ezu253.
- 25) Corradi M, Chrystyn H, **Cosio BG**, Pirozynski M, Loukides S, Louis R, Spinola M, Usmani OS. NEXThaler, an innovative dry powder inhaler delivering an extrafine fixed combination of beclometasone and formoterol to treat large and small airways in asthma. *Expert Opin Drug Deliv.* 2014 Sep;11(9):1497-506.
- 26) de Torres JP, Marin JM, Martinez-Gonzalez C, de Lucas-Ramos P, Mir-Viladrich I, **Cosio B**, et al; COPD History Assessment in Spain (CHAIN) Cohort*. Clinical application of the COPD assessment test: longitudinal data from the COPD History Assessment in Spain (CHAIN) cohort. *Chest.* 2014 Jul;146(1):111-22.
- 27) Shafiek H, Fiorentino F, Peralta AD, Serra E, Esteban B, Martinez R, Noguera MA, Moyano P, Sala E, Sauleda J, **Cosío BG**. Real-time prediction of mediastinal lymph node malignancy by endobronchial ultrasound. *Arch Bronconeumol.* 2014 Jun;50(6):228-34.
- 28) **Cosío BG**, Shafiek H, Fiorentino F, Gómez C, López M, Rios A, Kersul A, Togores B, Palmer J, Sauleda J, Agustí A. Structure-function relationship in COPD revisited: an in vivo microscopy view. *Thorax.* 2014 Aug;69(8):724-30.
- 29) Casanova C, Marin JM, Martinez-Gonzalez C, de Lucas-Ramos P, Mir-Viladrich I, **Cosio B**, Peces-Barba G, et al ; New GOLD classification: longitudinal data on group assignment. *Respir Res.* 2014 Jan 13;15(1):3. doi: 10.1186/1465-9921-15-3.

- 30) Núñez B, Fiorentino F, Kersul A, Belda S, García S, Gutiérrez C, Sala E, **Cosío B**. Characteristics of asthma patients admitted to an intermediate respiratory care unit. Arch Bronconeumol. 2013 Apr;49(4):146-50.

GRANTS

- 1) PI 04/214 Molecular mechanism of inflammation during COPD exacerbations. PI: Dr. Borja G Cosío. Funding source: FIS (Spanish Ministry of Health)
- 2) PI04/1946. Endothelial dysfunction in COPD. Co-Investigator. Funding source: FIS (Spanish Ministry of Health)
- 3) PI05/1463- Study of COPD exacerbations in Spain (ECOS). National coordinator. Funding source: FIS (Spanish Ministry of Health)
- 4) PI07/90721. AUDIPOC: Clinical audit on COPD exacerbations in Spain. IP (Balearic islands): Dr. Borja G Cosío. Funding source: FIS (Spanish Ministry of Health)
- 5) PI 08/0780. The link between systemic inflammation and changes in the bone marrow of patients with COPD. IP: Dr Borja G Cosío. Funding source: FIS (Spanish Ministry of Health)
- 6) PI 12/02628. Usefulness of electronic nose in the microbiologic diagnosis of COPD exacerbations. PI: Dr Borja G Cosío. Funding source: FIS (Spanish Ministry of Health)
- 7) PI 15/01263. Characterization of Asthma COPD overlap syndrome. PI: Dr Borja G Cosío. Funding source: FIS (Spanish Ministry of Health)
- 8) "ERS Long-term fellowship 2000" Project title: "Oxidative stress and cigarette smoking induce resistance to corticosteroids" Funding source: European Respiratory Society (ERS).
- 9) Grant "Becario Separ" 2001 and 2002 for a long-term fellowship at National Heart & lung Institute and Royal Brompton Hospital in London.

- 10) Grant SEPAR (Spanish Society of Respiratory Medicine) 2003. "COPD and autoimmunity. Assessment of possible antigens". Co-investigator.
- 11) Grant SEPAR (Spanish Society of Respiratory Medicine) 2004. Expresión de la Bomba (ATPasa) de calcio del retículo sarcoplasmático (SERCA) en músculo esquelético de pacientes con EPOC con bajo peso corporal. Estudios en biopsias (quadriceps femoris) y en modelo de cultivo celular. PI.
- 12) Grant SEPAR (Spanish Society of Respiratory Medicine) 2006- Effect of cigarette smoke on remodelling and regeneration of skeletal muscle. PI
- 13) Grant SEPAR (Spanish Society of Respiratory Medicine) 2007- The link between systemic inflammation and changes in the bone marrow of patients with COPD. PI.
- 14) Govern Balear 2009. Conselleria d'economia CEA09/006 and Conselleria de Salut DGAVAL_PI_038/09. "Usefulness of alveolscopy in the diagnosis of remodelling in asthma and COPD". PI
- 15) Grant Govern Balear 2009. "Utilidad de la alveoloscopia en el diagnóstico del remodelado de la vía aérea en pacientes asmáticos y pacientes con EPOC". PI: Dr. Borja G Cosío.
- 16) Grant Fundación Mutua Madrileña 2009. ASSET: Assessment of theophylline on top of combination therapy in severe COPD. PI: Dr. Borja G Cosío.
- 17) Grant Separ 2010. Papel del BAFF en la respuesta inmunológica en la EPOC. PI: Dr. Borja G Cosío.
- 18) The study of Early COPD in Spain. Funded by Ciberes in 2014 (Spanish Network of Excellence in Respiratory Research) through a sponsorship agreement with Boehringer Ingheilm (280.000€). PI: Dr. Borja G Cosío.
- 19) Grant PII Separ. Characterization of the Asthma and COPD Overlap Syndrome (ACOS). Funded by Separ Research Program in 2014 (Spanish Society of Respiratory Diseases) through a sponsorship agreement with Boehringer Ingheilm (120.000€). PI: Dr. Borja G Cosío.

OTHER ACHIEVEMENTS

- Director, Difficult Asthma @ Fragile COPD clinic
- Coordinator of the Strategy for COPD in the Balearic Islands
- Peer Reviewer in respiratory medicine journals, including:
Am J Respir Crit Care Med; Thorax; Eur Respir J, Respiratory Research, Respiratory Medicine, Journal of COPD, Archivos de Bronconeumologia.
- Peer Reviewer in research institutions, societies and foundations, including:
the Spanish Agency for Evaluation (ANEP), European Respiratory Society (ERS).
- Languages. Spanish and English
- Member of Scientific Societies: European Respiratory Society (ERS), Spanish Society of Pneumology & Thoracic Surgery (SEPAR)
- 1st prize ERS COPD Research Award 2005
- Certificate of Good Clinical Practice and study management in 29th September 2014