

# Chronic Respiratory Diseases



## Coordinator

Plaza Moral, Vicente FGS  
vplaza@santpau.cat

## Members

Alonso León, Ana María FGS  
Anton Albisu,  
Pedro Antonio FGS  
Bigorra Rodríguez, Teresa IR  
Brienza, Sonia Nadia IR  
Burrel Deicke, Cristina FGS  
Castillo Villegas, Diego FGS  
Cisneros Anto, Josep Lluís FGS  
Crespo Lessmann,  
Astrid del Carmen FGS  
Curto Sánchez, Elena IR  
Feliu Roperó, Anna IR  
Fortuna Gutiérrez,  
Ana María FGS  
García Moral, Alba FGS  
Giménez Badía, Sandra FGS  
Giménez Palleiro, Ana María FGS  
Giner Donaire, Jordi FGS  
Güell Rous, Maria Rosa FGS  
Lapuente Torrents, Ana María IR  
Mateus Medina, Eder Fredy IR  
Mayos Pérez, Mercedes FGS  
Miralda Galán, Rosa María FGS  
Morante Vélez, Fátima FGS  
Osuna Gómez, Rubén IR  
Pajares Ruiz, Virginia FGS  
Paz del Río, Luis Daniel FGS  
Peiró Fàbregas, Meritxell FGS  
Peñacoba Toribio, Patricia IR  
Perea Soriano, Lidia IR  
Puy Rion, María Carme FGS  
Ramos Barbón, David FGS  
Rodrigo Troyano, Ana María IR  
Segura Medina, Macarena FGS  
Sibila Vidal, Oriol FGS  
Solanes García, Ingrid FGS  
Soto Retes,  
Lorena Concepción FGS  
Torrego Fernández, Alfonso FGS  
Torrejón Lazaro, Montserrat FGS  
Ujaldón Miró, Cristina IR

## Main Lines of Research

### Asthma

- ▶ Asthma exacerbations.
- ▶ Severe asthma.
- ▶ Good clinical practice guidelines for asthma.
- ▶ Bronchial inflammation.
- ▶ Experimental asthma and pathogenic mechanisms.
- ▶ Multicentre biobank specializing in bronchial biopsies for research into asthma.
- ▶ Bronchial thermoplasty.
- ▶ Clinical trials.

### COPD and Respiratory Failure

- ▶ Non-invasive mechanical ventilation.
- ▶ Respiratory rehabilitation.
- ▶ Pathophysiology.
- ▶ Exacerbation.

### Obstructive Sleep Apnoea (OSA)

- ▶ Physiology and clinical, diagnostic and treatment consequences of sleep disorders.
- ▶ Obesity-hypoventilation syndrome.
- ▶ Analysis of airway inflammation in patients with OSA.

## Challenges

- ▶ Consolidate a leading clinical trial unit in respiratory diseases.
- ▶ Capture pre-clinical development contracts from the pharmaceutical and biotech industry, using the capabilities of our basic research lab and experimental animal models.
- ▶ Recruit research trainees seeking a doctoral degree.
- ▶ Support the development of multidisciplinary research networks such as the Barcelona Respiratory Network and the Programme for Integrated Research for Asthma of the Spanish Society of Pneumology and Thoracic Surgery (SEPAR), and collaborate with or become involved in existing networks such as CIBER-Respiratory Disorders.

## Collaborations

### Collaborations with other IIB Sant Pau Groups

- ▶ Ear, Nose and Throat Cancers (collaboration of Dr. V. Plaza in the EPONA study).
- ▶ Genetics and Vascular Surgery Departments (collaboration of Dr. V. Plaza in the TAGA study).

### External Collaborations

- ▶ Dr. V. Plaza. Emergent Asthma Group, SEPAR.
- ▶ Dr. V. Plaza. INASMA Group.
- ▶ Drs. V. Plaza and D. Ramos Barbón. Integrated Research Programme (PII) for Asthma, SEPAR.
- ▶ Drs. V. Plaza and D. Ramos Barbón. Group associated with CIBER-Respiratory.
- ▶ Drs. V. Plaza and D. Ramos Barbón. Severe Heterogenous Asthma Research collaboration, Patient-centered (SHARP) of the European Respiratory Society
- ▶ Dr. D. Castillo Villegas. National Institute for Rare Diseases, Insituto de Salud Carlos III, Madrid, Spain.

- ▶ Dr. D. Castillo Villegas. International Working Group on Langerhans Cell Histiocytosis and EUROHISTIONET.
- ▶ Dr. D. Ramos Barbón (PI). Multicentre Biobank of Bronchial Biopsies for Asthma Research, with collaborators as follows:
  - Dr. Carlos Martínez Rivera from Hospital Universitari Germans Trias i Pujol, Badalona, Spain.
  - Dr. Antolín López Viña from Hospital Universitario Puerta de Hierro, Madrid, Spain.
  - Dr. Francisco Javier González Barcala from Complejo Hospitalario de Pontevedra, Spain.
  - Dr. Teresa Bazús González from Hospital Universitario Central de Asturias, Oviedo, Spain.
  - Dr. Luis Pérez de Llano from Hospital Lucus Augusti, Lugo, Spain.
  - Dr. Patrick Berger from Université Bordeaux 2, Bordeaux, France.
  - Dr. James G Martin from McGill University, Montreal, Canada.

Active Grants

- ▶ Mercedes Mayos Pérez. Proyecto PASHOS: Plataforma Avanzada para el estudio del Síndrome de Apnea Hipopnea del Sueño (SAHS): Estudio de validación de un modelo de criba del SAHS en Atención Primaria. PI14/01985. Instituto de Salud Carlos III. Duration: 2015-2018. 19,400.00 €.
- ▶ David Ramos Barbón. Mecanismos patogénicos versus terapéuticos de las células madre mesenquimales sobre la remodelación bronquial en asma: prueba de concepto para subsiguiente desarrollo farmacéutico. PI14/00257. Instituto de Salud Carlos III. Duration: 2015-2019. 121,500.00 €.
- ▶ Oriol Sibila Vidal. El microbioma respiratorio en la EPOC; relación con la respuesta inmune pulmonar y sistémica. PI15/02042. Instituto de Salud Carlos III. Duration: 2016-2018. 72,000.00 €.
- ▶ Alfonso Torrego Fernández. Estudi dels mecanismes fisiopatològics i resultats de l'aplicació de termoplàstia bronquial en asma greu. BECA VIFOR - FUCAP 2015. Fundació Catalana de Pneumologia. Duration: 2015-2018. 10,363.65 €.
- ▶ Oriol Sibila Vidal. Respiratory Microbiome and COPD exacerbations. RAMON PLA ARMENGOL 2015. Fundació Ramón Pla Armengol. Duration: 2015-2018. 63,636.36 €.
- ▶ David Ramos Barbón. Desarrollo clínico y validación de biomarcadores de un nuevo tratamiento oral para el asma a través de un ensayo de fase II. RTC-2016-4698-1. Ministeri d'Economia i Competitivitat. Duration: 2016-2018. 178,150.00 €.
- ▶ Astrid del Carmen Crespo Lessmann. Validación de la medición de la IgE total e IgE específica en el esputo inducido de pacientes con asma alérgica y no alérgica. BECA LETI 2016. Fundació Catalana de Pneumologia. Duration: 2016-2018. 10,909.08 €.
- ▶ Diego Castillo Villegas. Caracterización genética y funcional de la histiocitosis pulmonar de células de langerhans: Implicaciones diagnósticas y terapéuticas. EPID-FUTURO 2013. Societat Espanyola de Pneumologia i Cirurgia Toràcica. Duration: 2013-2017. 5,291.00 €.
- ▶ Oriol Sibila Vidal. Infección bronquial en pacientes con EPOC y agudizaciones frecuentes; papel de la inmunidad innata y utilidad de una nariz electrónica para su diagnóstico. ASTRAZENECA 2015-1. Fundació AstraZeneca. Duration: 2015-2017. 20.000.00 €.
- ▶ Oriol Sibila Vidal. Infección bronquial en pacientes con EPOC y agudizaciones frecuentes; papel de la inmunidad innata y utilidad de una nariz electrónica para su diagnóstico. SEPAR 2014. Societat Espanyola de Pneumologia i Cirurgia Toràcica. Duration: 2016-2017. 12,847.61 €.
- ▶ Guillermo Rafael Suarez Cuartín. Infección bronquial en pacientes con bronquiectasias NO-FQ: papel de los mecanismos de defensa pulmonar y utilidad de una nariz electrónica para su diagnóstico. BECA BECARI SOCAP 2016. Societat Catalana de Pneumologia. Duration: 2016-2017. 13,090.91 €.
- ▶ Oriol Sibila Vidal. Infección bronquial en pacientes con bronquiectasias No-FQ: Papel de los mecanismos de defensa pulmonar y utilidad de una nariz electrónica para su diagnóstico. SEPAR 2015 - BECARI. Societat Espanyola de Pneumologia i Cirurgia Toràcica. Duration: 2016-2017. 17,100.00 €.
- ▶ Ana María Rodrigo Troyano. El microbioma respiratorio en la EPOC; relación con la respuesta inmune pulmonar y sistémica. IR16-R2. Fundació Privada Hospital de la Santa Creu i Sant Pau. Duration: 2016-2017. 35,500.00 €.
- ▶ Oriol Sibila Vidal. Impacto del tabaquismo sobre los mecanismos de defensa pulmonar y la infección bronquial en pacientes con EPOC y agudizaciones frecuentes. FUCAP 2015 (La Caixa). Fundació Catalana de Pneumologia. Duration: 2015-2018. 13,300,00 €.

Note: Total amount granted to PI. It does not include indirect costs.

Grants Awarded in 2017

- ▶ Ana María Rodrigo Troyano, El microbioma respiratorio en la EPOC; relación con la respuesta inmune pulmonar y sistémica. BECA BECARI SOCAP 2017. Societat Catalana de Pneumologia. Duration: 2017-2018. 14,400.00 €.
- ▶ Vicente Plaza Moral, Asma Neutròfílica y/o No Eosinofílica. Proyecto ANNE. PI17/01950. Instituto de Salud Carlos III. 2018-2020. 87,000.00 €.

Note: Total amount granted to PI. It does not include indirect costs.

# Chronic Respiratory Diseases

\*TIF: 183.351 \*\*MIF: 5.093

Scientific Production

Barcelo A., Morell-Garcia D., Salord N., Esquinas C., Perez G., Perez A., Monasterio C., Gasa M., Fortuna A.M., Montserrat J.M., Mayos M., A randomized controlled trial: branched-chain amino acid levels and glucose metabolism in patients with obesity and sleep apnea (2017) *J SLEEP RES*, 26 (6), 773-781.

**IF: 3.433**

Ceccato A., Cilloniz C., Ranzani O.T., Menendez R., Agusti C., Gabarrus A., Ferrer M., Sibila O., Niederman M.S., Torres A., Treatment with macrolides and glucocorticosteroids in severe community-acquired pneumonia: A post-hoc exploratory analysis of a randomized controlled trial (2017) *PLOS ONE*, 12 (6).

**IF: 2.766**

Cepeda S., Pajares V., Trujillo-Reyes J.C., Torregó A., A New Cyanoacrylate Used as Bronchial Sealant in the Endoscopic Treatment of Bronchopleural Fistula Utilización de un nuevo cianoacrilato como sellante bronquial en el tratamiento endoscópico de la fistula broncopleurálica (2017) *ARCH BRONCONEUMOL*, 53 (3), 168-169.

**IF: 2.633**

Chalmers J.D., Moffitt K.L., Suarez-Cuartin G., Sibila O., Finch S., Furrer E., Dicker A., Wrobel K., Elborn J.S., Walker B., Martin S.L., Marshall S.E., Huang J.T.-J., Fardon T.C., Neutrophil elastase activity is associated with exacerbations and lung function decline in bronchiectasis (2017) *AM J RESP CRIT CARE*, 195 (10), 1384-1393.

**IF: 15.239**

Cosio B.G., De Llano L.P., Vina A.L., Torregó A., Lopez-Campos J.L., Soriano J.B., Moragon E.M., Izquierdo J.L., Bobolea I., Callejas J., Plaza V., Miravittles M., Soler-Catalunya J.J., Th-2 signature in chronic airway diseases: Towards the extinction of asthma-COPD overlap syndrome? (2017) *EUR RESPIR J*, 49 (5).

**IF: 12.242**

Crespo-Lessmann A., Mateus E., Torrejón M., Belda A., Giner J., Vidal S., Sibila O., Plaza V., Asthma with bronchial hypersecretion: expression of mucins and toll-like receptors in sputum and blood. *J ASTHMA ALLERGY* 2017;10:269-276.

**IF: 1.59**

Crespo-Lessmann A., Plaza V., González-Barcala F.J., Fernández-Sánchez T., Sastre J. Concordance of opinions between patients and physicians and their relationship with symptomatic control and future risk in patients with moderate-severe asthma. *BMJ OPEN RESPIR RES*. 2017 Sep 13;4(1):e000189. PMID: 29018525.

**IF 1.188**

Faverio P., Sibila O., New biomarkers in community-acquired pneumonia: Another step

in improving outcome prediction (2017) *RESPIROLOGY*, 22 (3), 416-417.

**IF: 4.407**

Gimenez S., Romero S., Alonso J.F., Mananas M.A., Pujol A., Baxarias P., Antonijoan R.M., Monitoring sleep depth: analysis of bispectral index (BIS) based on polysomnographic recordings and sleep deprivation (2017) *J CLIN MONIT COMPUT*, 31 (1), 103-110.

**IF: 2.450**

Gonzalez A., Lluch A., Aba E., Albanell J., Anton A., Alvarez I., Ayala F., Barnadas A., Calvo L., Ciruelos E., Cortes J., de la Haba J., Lopez-Vega J.M., Martinez E., Munoz M., Pelaez I., Redondo A., Rodriguez A., Rodriguez C.A., Ruiz A., Llombart A., A definition for aggressive disease in patients with HER-2 negative metastatic breast cancer: an expert consensus of the Spanish Society of Medical Oncology (SEOM) (2017) *CLIN TRANSL ONCOL*, 19 (5), 616-624.

**IF: 2.392**

Guell M.-R., Cejudo P., Ortega F., Puy M.C., Rodriguez-Trigo G., Pijoan J., Martinez-Indart L., Gorostiza A., Bdeir K., Celli B., Galdiz J.B., Benefits of long-term pulmonary rehabilitation maintenance program in patients with severe chronic obstructive pulmonary disease (2017) *AM J RESP CRIT CARE*, 195 (5), 622-629.

**IF: 15.239**

Huertas D., Monton C., Marin A., Solanes I., Lopez-Sanchez M., Pomares X., Munoz-Esquerre M., Dorca J., Santos S., Effectiveness of a Respiratory Day Hospital Program to Reduce Admissions for Exacerbation in Patients with Severe COPD: A Prospective, Multicenter Study (2017) *COPD*, 14 (3), 304-310.

**IF: 2.604**

Koo C.-Y., de la Torre A.S., Loo G., Torre M.S.D.L., Zhang J., Duran-Cantolla J., Li R., Mayos M., Sethi R., Abad J., Furlan S.F., Coloma R., Hein T., Ho H.-H., Jim M.-H., Ong T.-H., Tai B.-C., Turino C., Drager L.F., Lee C.-H., Barbe F., Effects of Ethnicity on the Prevalence of Obstructive Sleep Apnoea in Patients with Acute Coronary Syndrome: A Pooled Analysis of the ISAACC Trial and Sleep and Stent Study (2017) *HEART LUNG CIRC*, 26 (5), 486-494.

**IF: 1.921**

Lopez-Vina A., Giner J., Molina J., Palicio J., Plaza J., Quintano J.A., Quirce S., Soria C., Urendez A.M., Plaza V., Multidisciplinary Consensus on the Nonadherence to Clinical Management of Inhaled Therapy in Spanish asthma patients (2017) *CLIN THER*, 39 (8), 1730-1745.e1.

**IF: 3.185**

Marquez-Rodas I., Pollan M., Escudero M.J., Ruiz A., Martin M., Santaballa A., Martinez del Prado P., Batista N., Andres R., Anton A.,

Llombart A., Fernandez Aramburu A., Adrover E., Gonzalez S., Segui M.A., Calvo L., Lizon J., Rodriguez Lescure A., Ramon y Cajal T., Llorca G., Jara C., Carrasco E., Lopez-Tarruella S., Frequency of breast cancer with hereditary risk features in Spain: Analysis from GEICAM "El Álamo III" retrospective study (2017) *PLOS ONE*, 12 (10).

**IF: 2.766**

Martin M., Chacon J.I., Anton A., Plazaola A., Garcia-Martinez E., Segui M.A., Sanchez-Rovira P., Palacios J., Calvo L., Esteban C., Espinosa E., Barnadas A., Batista N., Guerrero A., Munoz M., Romio E., Rodriguez-Martin C., Caballero R., Casas M.I., Rojo F., Carrasco E., Antolin S., Neoadjuvant therapy with weekly nanoparticle albumin-bound paclitaxel for luminal early breast cancer patients: Results from the nabrax study (GEICAM/2011-02), a multicenter, non-randomized, phase II trial, with a companion biomarker analysis (2017) *ONCOLOGIST*, 22 (11), 1301-1308.

**IF: 5.306**

Martinez-Garcia M.A., Riveiro-Falkenbach E., Rodriguez-Peralto J.L., Nagore E., Martorell-Calatayud A., Campos-Rodriguez F., Farre R., Hernandez Blasco L., Roca J.B., Vives E.C., Sanchez-De-La-Torre A., Capa J.A., Montserrat J.M., Almendros I., Perez-Gil A., Nuno V.C., Cano-Pumarega I., Penafiel J.C., Cambriles T.D., Mediano O., Arias J.D., Gozal D., Garcia Martin R.M., Herrera E.M., De Jaime M.N., Moreno S., Illa F.B., De La Torre M.S., De Eusebio E., Landete P., Gordon M.M., Arias E., Masa F., Herrada C.G., Carrera C., Ferrer A.M., Boada A., Fortuna A., Mayos M., Garcia J.G., A prospective multicenter cohort study of cutaneous melanoma: Clinical staging and potential associations with HIF-1 $\alpha$  and VEGF expressions (2017) *MELANOMA RES*, 27 (6), 558-564.

**IF: 5.306**

Martinez-Moragon E., Plaza V., Torres I., Rosado A., Urrutia I., Casas X., Hinojosa B., Blanco-Aparicio M., Delgado J., Quirce S., Sabadell C., Cebollero P., Munoz-Fernandez A., Fibromyalgia as a cause of uncontrolled asthma: a case-control multicenter study (2017) *CURR MED RES OPIN*, 33 (12), 2181-2186.

**IF: 2.665**

Miravittles M., Alvarez-Gutierrez F.J., Calle M., Casanova C., Cosio B.G., López-Viña A., Pérez de Llano L., Quirce S., Roman-Rodríguez M., Soler-Cataluña J.J., Plaza V. An algorithm for easy identification of ACO: Consensus between the Spanish COPD (GesEPOC) and asthma (GEMA) guidelines. *EUR RESPIR J* 2017;49(5).

**IF: 12.242**

Munoz-Cano R., Torregó A., Bartra J., Sanchez-Lopez J., Picado R.P., Valero A., Fol-

\*TIF: 183.351 \*\*MIF: 5.093

low-up of patients with uncontrolled asthma: Clinical features of asthma patients according to the level of control achieved (the COAS study) (2017) EUR RESPIR J, 49 (3).  
**IF: 12.242**

Pérez-de-Llano L, Cosío BG; CHACOS study group. Asthma-COPD overlap is not a homogeneous disorder: further supporting data. RESPIR RES. 2017;18(1):183.  
**IF: 3.751**

Plaza V, Lopez-Vina A., Cosío B.G., Test of Adherence to Inhalers El test de adhesión a los inhaladores (2017) ARCH BRONCONEUMOL, 53 (7), 360-361.  
**IF: 2.633**

Plaza V., Alvarez F., Calle M., Casanova C., Cosío B.G., Lopez-Vina A., Perez de Llano L., Quirce S., Roman-Rodriguez M., Soler-Cataluna J.J., Miravittles M., Consensus on the Asthma-COPD Overlap Syndrome (ACOS) Between the Spanish COPD Guidelines (GesEPOC) and the Spanish Guidelines on the Management of Asthma (GEMA) Consenso sobre el solapamiento de asma y EPOC (ACO) entre la Guía española de la EPOC (GesEPOC) y la Guía Española para el Manejo del Asma (GEMA) (2017) ARCH BRONCONEUMOL, 53 (8), 443-449.  
**IF: 2.633**

Quirce S, Delgado J, Entrenas JL, Grande M, Llorente C, López Viña A, Martínez Moragón E, Mascarós E, Molina J, Olaguibel JM, Pérez de Llano LA, Perpiñá Tordera M, Quintano JA, Rodríguez M, Román-Rodriguez M, Sastre J, Trigueros JA, Valero AL, Zoni AC, Plaza V; ASMAFORUM II Group. Quality indicators of asthma care derived from the Spanish guideline for asthma management (GEMA 4.0): A multidisciplinary team report. J INVESTIG ALLERGOL CLIN IMMUNOL. 2017;27(1):69-73.  
**IF 3.457**

Reyes L.F., Restrepo M.I., Hinojosa C.A., Soni N.J., Anzueto A., Babu B.L., Gonzalez-Juarbe N., Rodriguez A.H., Jimenez A., Chalmers J.D.,

Aliberti S., Sibila O., Winter V.T., Coalson J.J., Giavedoni L.D., Dela Cruz C.S., Waterer G.W., Witznath M., Suttrop N., Dube P.H., Orihue-la C.J., Severe pneumococcal pneumonia causes acute cardiac toxicity and subsequent cardiac remodeling (2017) AM J RESP CRIT CARE, 196 (5), 609-620.  
**IF: 15.239**

Rodrigo G.J., Neffen H., Plaza V., Asthma-chronic obstructive pulmonary disease overlap syndrome: A controversial concept (2017) CURR OPIN ALLERGY CL, 17 (1), 36-41.  
**IF: 3.544**

Rodrigo-Troyano A., Mediavilla M.M., Garin N., Guell R., Heart failure induced by itraconazole Insuficiencia cardíaca secundaria a tratamiento con itraconazol (2017) MED CLIN-BARCELONA, 148 (2), 69-70.  
**IF: 1.168**

Rodrigo-Troyano A., Sibila O., The respiratory threat posed by multidrug resistant Gram-negative bacteria (2017) RESPIROLOGY, 22 (7), 1288-1299.  
**IF: 4.407**

Roman-Rodriguez M., Ibarrola-Ruiz L., Mora F., Plaza V., Sastre J., Torrego A., Vega J.M., Sanchez-Herrero G., Motivational interviewing for adherence: Post-training attitudes and perceptions of physicians who treat asthma patients (2017) PATIENT PREFER ADHER, 11, 811-820.  
**IF: 1.733**

Sellares J., Ferrer M., Anton A., Loureiro H., Bencosme C., Alonso R., Martinez-Olondris P., Sayas J., Penacoba P., Torres A., Discontinuing noninvasive ventilation in severe chronic obstructive pulmonary disease exacerbations: A randomised controlled trial (2017) EUR RESPIR J, 50 (1).  
**IF: 12.242**

Serrano-Pariente J., Plaza V., Near-fatal asthma: A heterogeneous clinical entity (2017) CURR OPIN ALLERGY CL, 17 (1), 28-35.  
**IF: 3.544**

Serrano-Pariente J., Plaza V., Soriano J.B., Mayos M., Lopez-Vina A., Picado C., Vigil L., Crespo-Lessmann A., Asthma outcomes improve with continuous positive airway pressure for obstructive sleep apnea (2017) ALLERGY, 72 (5), 802-812.  
**IF: 6.048**

Soto Campos J.G., Rojas Villegas J., Padilla Galo A., Marina Malanda N., Garcia Rivero J.L., Pinedo Sierra C., Garcia Salmones M., Cabrera Galan C., Segura Molina E., Plaza V., Impacto del asma en la vida sexual de los pacientes. Un estudio de casos y controles Impacto of Asthma on the Sexual Functioning of Patients. A Case-Control Study (2017) ARCH BRONCONEUMOL, 53 (12), 667-674.  
**IF: 2.633**

Soto Campos J.G., Rojas Villegas J., Padilla Galo A., Marina Malanda N., Garcia Rivero J.L., Pinedo Sierra C., Garcia Salmones M., Cabrera Galan C., Segura Molina E., Plaza V., Pascual Erquicia S., Impacto of Asthma on the Sexual Functioning of Patients. A Case-Control Study Impacto del asma en la vida sexual de los pacientes. Un estudio de casos y controles (2017) ARCH BRONCONEUMOL, 53 (12), 667-674.  
**IF: 2.633**

Suarez-Cuartin G., Smith A., Abo-Leyah H., Rodrigo-Troyano A., Perea L., Vidal S., Plaza V., Fardon T.C., Sibila O., Chalmers J.D., Anti-Pseudomonas aeruginosa IgG antibodies and chronic airway infection in bronchiectasis (2017) RESP MED, 128, 1-6.  
**IF: 3.230**

Xaubet A., Molina-Molina M., Acosta O., Bollo E., Castillo D., Fernandez-Fabrellas E., Rodriguez-Portal J.A., Valenzuela C., Ancochea J., Guidelines for the medical treatment of idiopathic pulmonary fibrosis Normativa sobre el tratamiento farmacológico de la fibrosis pulmonar idiopática (2017) ARCH BRONCONEUMOL, 53 (5), 263-269.  
**IF: 2.633**