

Date of the CVA

22/02/2021

## Section A. PERSONAL DATA

Name and Surname	Josep Maria Grau Junyent		
DNI	39124155M	Age	68
Researcher's identification number	Researcher ID		
	Scopus Author ID		
	ORCID	0000-0001-7560-224X	

\* Obligatorio

### A.1. Current professional situation

Institution	HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA		
Dpt. / Centre			
Address			
Phone	93 227 54 00 - 2907	Email	<a href="mailto:jmgrau@clinic.cat">jmgrau@clinic.cat</a>
Professional category	Senior Consulting Internist Physician	Start date	2001
Keywords			

### A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Medicina y Cirugía	Universitat de Barcelona	1982
Esp.Medicina Interna	Universitat de Barcelona	1979
Medicina y Cirugía	Universitat de Barcelona	1975

### A.3. General quality indicators of scientific production

In the last 5 years I have participated in 30 publications.

From those, first, second or last (corresponding) in 12, 40%. h Index: 40 and 1166 citations accumulated.

## Section B. SUMMARY OF THE CURRICULUM

Summary of the scientific trajectory.

Currently, triple activity as: IDIBAPS accredited researcher / Professor and Director of the Department of Medicine of the Faculty of Medicine and Health Sciences of the UB / Specialist in the Internal Medicine Service of the Hospital Clinic de Barcelona.

The scientific trajectory began in 1980 with the preparation of the doctoral thesis that I was able to defend in 1982 with the title 'Contribution to the study of alcoholic myopathy'. This was followed by a 4-month stay at Hanheman University in Philadelphia, which led to collaborative work with that University.

Subsequently, I have led the muscle research and mitochondrial function laboratory recognized by the Generalitat of Catalonia as a Consolidated Research Group, accredited in five different calls, the last one for the 2018-20 period. (exp. 893/2017).

The Group has also consolidated itself in Area 4 of the August Pi Sunyer Biomedical Research Institute (IDIBAPS), Clinical and Experimental Neurosciences, specifically in the Muscular Research and Mitochondrial Function Group, whose ultimate manager is the one who signs this document. All this research work is also embedded within the CIBERER, for which I am currently responsible (Mitochondrial Functionalism Laboratory, U722).

The Muscular Research and Mitochondrial Function Lab accredits more than 25 subsidized projects (competitive and private) which has allowed the publication of more than 200 articles in top-level journals, and the defense of 10 doctoral theses always in the field of diseases muscles, mitochondrial functionalism in relation to HIV infection and the deleterious effects of substances and toxins in the mitochondria. Similarly, the Muscular Research and Mitochondrial Function Group has made a notable contribution to the field of inflammatory myopathies, either

by describing new autoantibodies, different clinical forms, limiting and questioning the existence of pure or isolated forms of polymyositis and contributing to the etiopathogenesis of inclusion body myositis.

## Section C. MOST RELEVANT MERITS (ordered by typology)

### C.1. Publications

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores

- 1 Scientific paper.** Pinal-Fernandez I.; Casal-Dominguez M.; Derfoul A.; et al; Grau-Junyent J.M.; Mammen A.L.(8/15). 2019. Identification of distinctive interferon gene signatures in different types of myositis *Neurology*. 93, pp.E1193-E1204. ISSN 0028-3878.
- 2 Scientific paper.** Santacatterina, F.; Sánchez-Aragó, M.; Catalán, M.; Garrabou, G.; Nuñez de Arenas, C.; Grau, J.M.; Cardellach, F.; Cuezva, J.M.(6/8). 2017. Pyruvate kinase M2 and the mitochondrial ATPase Inhibitory Factor 1 provide novel biomarkers of dermatomyositis: a metabolic link to oncogenesis.*Journal of Translational Medicine*. BioMed Central. 15-29. ISSN 1479-5876.
- 3 Scientific paper.** Pinal-Fernandez, I.; Ferrer-Fabregas, B.; Trallero-Araguas, E.; et al; Grau-Junyent, J.M.; Selva-O'Callaghan, A.(10/11). 2017. Tumour TIF1 mutations and loss of heterozygosity related to cancer-associated myositis.*Rheumatology*. Oxford University Press. ISSN 1462-0324.
- 4 Scientific paper.** J Hernández Rodríguez; E Ruiz Ortiz; A Tomé; et al; ;. (11/15). 2016. Clinical and genetic characterization of the autoinflammatory diseases diagnosed in an adult reference center *Autoimmunity Reviews*. ISSN 1568-9972.
- 5 Scientific paper.** Catalan-García, M.; Garrabou, G.; Morén, C.; et al; Grau, J.M.(18/18). 2016. Mitochondrial-DNA disturbances and deregulated expression of OXPHOS and mitochondrial fusion proteins in sporadic inclusion body myositis *Clinical Science*. Medical Research Society.. 130-19, pp.1741-1751. ISSN 0143-5221.
- 6 Bibliographic review.** Matas-García A; Milisenda JC; Selva-O'Callaghan; et al; Grau JM. (14/14). 2020. Emerging PD-1 and PD-1L inhibitors-associated myopathy with a characteristic histopathological pattern *Autoimmunity Reviews*. ISSN 1568-9972.
- 7 Bibliographic review.** Catalan-Garcia, Marc; Josep Garcia-Garcia, Francesc; Moreno-Lozano, Pedro J.; et al; Grau-Junyent, Josep M.(13/13). 2020. Mitochondrial Dysfunction: A Common Hallmark Underlying Comorbidity between sIBM and Other Degenerative and Age-Related Diseases *JOURNAL OF CLINICAL MEDICINE*. 9. ISSN 2077-0383.
- 8 Bibliographic review.** Selva-O'Callaghan A.; Pinal-Fernandez I.; Trallero-Araguás E.; Milisenda J.; Grau-Junyent J.; Mammen A.(5/6). 2018. Classification and management of adult inflammatory myopathies *The Lancet Neurology*. 17, pp.816-828. ISSN 1474-4422.
- 9 Bibliographic review.** Selva-O'Callaghan A.; Alvarado-Cardenas M.; Pinal-Fernández I.; et al; Grau-Junyent J.M.(10/10). 2018. Statin-induced myalgia and myositis: an update on pathogenesis and clinical recommendations *Expert Review of Clinical Immunology*. 14, pp.215-224. ISSN 1744-666X.
- 10 Bibliographic review.** Alvarado-Cardenas M.; Marin-Sánchez A.; Martínez M.; et al; Grau-Junyent J.; Selva-O'Callaghan A.(14/16). 2016. Statin-associated autoimmune myopathy: A distinct new IFL pattern can increase the rate of HMGCR antibody detection by clinical laboratories *Autoimmunity Reviews*. 15, pp.1161-1166. ISSN 1568-9972.

### C.2. Participation in R&D and Innovation projects

- 1 Miositis por cuerpos de inclusión esporádica: desarrollo de nuevos modelos celulares para la identificación de biomarcadores y estrategias terapéuticas** Instituto de Salud Carlos III. Josep María (IP) Grau Junyent. (HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA). 01/2019-12/2021. 92.686 €.
- 2 SGR 893/2017, Suport a Grups de Recerca de Catalunya: Grup de Recerca Muscular** Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Generalitat de Catalunya.. Josep Maria Grau. (Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)). 01/01/2018-31/12/2020.

- 3 Anàlisi Proteòmica de múscul de pacients amb miositis amb cossos d'inclusió (forma esporàdica) i estudi de la resposta a proteïnes mal plegades Fundació Privada CELLEX. Grau Junyent, J.M.(Hospital Clínic de Barcelona). 2015-2017. 89.670 €.
- 4 PI15/02100, Identificación de nuevos antígenos en pacientes con miopatía inflamatoria idiopática. FIS - Fondo de Investigación Sanitaria. Instituto de Salud Carlos III. Selva O'Callaghan, A.(INSTITUTO DE INVESTIGACIÓN HOSPITAL VALL D'HEBRÓN). 2015-2017. 130.922 €.
- 5 Miopatía asociada a los anticuerpos antimitocondriales M2. Caracterización de un subgrupo clínico-inmunológico. Premis Emili Letang. Milisenda, J.C.(Hospital Clínic de Barcelona). 06/2015-06/2016. 5.000 €.
- 6 Food4Health: EIT-Health Food4Health Cancer and Muscle project Food4Health. Josep María Grau Junyent. (HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA). From 01/2021.
- 7 Fenilcetonuria: de la infantesa als adults a través del connectoma cerebral, canvis cardiovasculars, característiques metabòliques i de la microbiota intestinal." Marató TV3. Josep Maria Grau Junyent. (HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA). From 01/2020. 399.900 €.

### **C.3. Participation in R&D and Innovation contracts**

### **C.4. Patents**