

## CURRICULUM VITAE

**José Javier Fuster, Ph.D.**

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**CURRENT POSITION:** Assistant Professor and Group Leader  
Hematovascular Pathophysiology Laboratory  
Centro Nacional de Investigaciones Cardiovasculares/  
*Spanish National Center for Cardiovascular Research (CNIC)*

### EDUCATION AND ACADEMIC TRAINING:

09/2000-07/2005 B.S. University of Valencia, Spain  
09/2005-07/2010 Ph.D. University of Valencia, Spain

### POSTDOCTORAL TRAINING:

08/2010-08/2011 Postdoctoral Associate Spanish National Cardiovascular Research Center  
09/2011-06/2015 Postdoctoral Fellow Boston University School of Medicine

### ACADEMIC APPOINTMENTS:

07/2015-05/2017 Instructor of Medicine Boston University School of Medicine (BUSM)  
06/2017-01/2018 Assistant Professor Boston University School of Medicine (BUSM)  
01/2018-08/2018 Assistant Professor University of Virginia School of Medicine (UVA)  
09/2018-present Assistant Professor Spanish National Center for CV Research (CNIC)

### MAIN RESEARCH INTERESTS:

- Pathophysiology of atherosclerotic cardiovascular disease
- Somatic mutations and clonal hematopoiesis in aging and age-related disorders
- Mechanisms underlying sex differences in inflammation during atherosclerosis
- Cellular senescence and inflammation in aging, obesity and related disorders

### PROFESSIONAL AND ACADEMIC HONORS AND RECOGNITIONS:

05/2018 *Irvine H. Page Young Investigator Finalist Award 2018*; American Heart Association; in recognition of the potential to become a future leader in cardiovascular research

04/2018 *EAS Young Investigator Award 2018*, European Atherosclerosis Society; in recognition of the outstanding contribution to knowledge in the field of atherosclerosis and related diseases.

06/2017 *Young Investigator Poster Award*, Gordon Research Conference on Systems-Interaction in Atherosclerosis 2017; young investigator award for outstanding poster presentation.

04/2017 *EAS Young Investigator Fellowship*, European Atherosclerosis Society; travel award for attendance to the European Atherosclerosis Society Congress 2017.

- 09/2014 *Junior Investigator Award*, University of Kentucky Aortic Symposium 2014; young investigator award for outstanding poster presentation.
- 03/2014 *Future of Science Travel Scholarship*, Keystone Symposia; travel award for attendance to the Keystone Symposium on Innate Immunity, Metabolism and Vascular Injury.
- 01/2010 *ESC Young Investigator Finalist Award*. European Society of Cardiology Heart Failure Winter Meeting 2010; young investigator award for outstanding poster presentation.
- 09/2005 *Spanish National Graduate Award (Biochemistry); Tercer Premio Nacional Fin de Carrera*
- 09/2005 *University of Valencia Extraordinary Graduate Award (Biochemistry); Premio Extraordinario Licenciatura*

**PROFESSIONAL SOCIETIES:**

- 2020-present *Member*, Spanish Society of Atherosclerosis
- 2019-present *Member*, European Society of Cardiology
- 2018-2019 *Member*, European Association for the Study of Diabetes
- 2013-present *Member*, International Atherosclerosis Society
- 2013-present *Member*, European Atherosclerosis Society
- 2012-present *Member*, American Heart Association

**PROFESSIONAL AND EDITORIAL SERVICE:**

- 2020 *Grant Reviewer*. National Science Center (NCN, Poland)
- 2019, 2020 *Grant Reviewer*. French National Research Agency (ANR, France)
- 2019 *Grant Reviewer*. Basque Government Health Department (Spain)
- 2019 *Grant Reviewer*. Radiation Effects Research Foundation (RERF, Japan).
- 2019 *Grant Reviewer*. Austrian Science Fund (FWF, Austria)
- 2019 *Guest Associate Editor*, *Frontiers in Cardiovascular Medicine* – Section on Cardiovascular Metabolism
- 2018 *Grant Reviewer*. Career Development Award Grants. American Heart Association. Member of the Reviewing Panel on Basic Vascular Sciences
- 2017 Abstract Reviewer (Vascular Medicine: Basic Research), American College of Cardiology Scientific Sessions 2018
- 2016-present *Editorial Board Member*, *Frontiers in Cardiovascular Medicine* – Section on Atherosclerosis and Vascular Medicine
- 2014-present *Ad Hoc Reviewer* for: *Science Translational Medicine; Journal of the American College of Cardiology; Circulation; Circulation Research; Haematologica; Cell Reports; Arteriosclerosis, Thrombosis, and Vascular Biology; Circulation: Genomic and Precision Medicine; Journal of Clinical Endocrinology and Metabolism; Cardiovascular Diabetology; Atherosclerosis*, among other journals.

## **SUPERVISION AND MENTORING ACTIVITIES**

### **Former trainees**

Vanesa Viana-Huete, PhD - Postdoctoral Associate (2018-2019)  
Jelena Eric - Undergraduate Student (2019)  
Alba Ferrer - M.S. Student (2019/2020)  
Asier Iturrate – M.S. Student (2019/2020)

### **Current postdoctoral scientists**

María A. Zuriaga, PhD (since 2019)  
Nuria Matesanz, PhD (since 2019)

### **Current PhD students**

Marta Amorós (since 2019, co-supervised by Vicente Andrés, CNIC)  
Miriam Díez (since 2020)  
Beatriz López (since 2020, co-supervised by Fátima Sánchez-Cabo, CNIC)  
Jorge de la Barrera (since 2020, co-supervised by Fátima Sánchez-Cabo, CNIC)

### **Current M.S students**

Inés Bravo Ruíz (since 2020)

### **Current Lab Technicians**

Virginia Zorita (since 2019, former M.S. student in the laboratory)  
Rosa Moro (since 2019)

## **ACTIVE RESEARCH SUPPORT**

Title: Cancer Therapy-Related Clonal Hematopoiesis as a Driver of Accelerated Atherosclerosis (CHEMICAL consortium)  
Source: Instituto de Salud Carlos III / European Research Area Network on Cardiovascular Diseases (ERA-CVD)  
Project Period: June 2020 - May 2022  
Role: Principal Investigator and Coordinator of the International Consortium

Title: Transatlantic Leducq Network on clonal hematopoiesis and atherosclerosis  
Source: Leducq Foundation  
Project Period: January 2020 – December 2023  
Role: Partner with dedicated budget (Coordinators: A. Tall; O. Soehnlein)

Title: Mutaciones somáticas y hematopoyesis clonal en enfermedad cardiovascular aterosclerótica  
Source: BBVA Foundation - Leonardo Fellowship for Researchers and Cultural Creators.  
Project Period: 10/01/2019 – 03/31/2021  
Role: Principal Investigator

Title: Somatic Tet2 Mutation-Driven Clonal Hematopoiesis In Atherosclerosis Progression (RTI2018-093554-A-I00)  
Source: Spanish Ministry of Science, Innovation and Universities  
Project Period: 01/01/2019 – 12/31/2021  
Role: Principal Investigator

Title: Somatic Mutation-driven Clonal Hematopoiesis in Atherosclerosis  
Source: La Caixa Banking Foundation  
Project Period: 01/01/2019 – 12/31/2021  
Role: Team Member with dedicated budget (P.I. V. Fuster)

Title: New mechanism of age-associated cardiovascular and metabolic disease.  
RYC-2016-20026  
Source: Ramon y Cajal Program. Spanish Ministry of Economy and Competitiveness  
Project Period: 09/01/2018 - 08/31/2023  
Role: Principal Investigator

#### **PAST RESEARCH SUPPORT AND TRAINING FELLOWSHIPS:**

Title: TET2 loss of function-induced clonal hematopoiesis: a new driver of insulin resistance  
Source: European Foundation for the Study of Diabetes (EFSD)  
Project Period: 04/01/2019 – 03/31/2020  
Role: Principal Investigator

Title: Somatic TET2 mutation-driven clonal hematopoiesis in atherosclerosis  
NIH R01 HL141123-1  
Source: USA National Institutes of Health (NIH-NHLBI)  
Project Period: 04/01/2018 - 03/31/2023 (*award relinquished on 09/31/2018 upon acceptance of a position outside the USA*)  
Role: Principal Investigator

Title: Role of age-associated TET2 mutations in atherosclerosis  
AHA Scientist Development Grant 17SDG33400213  
Source: American Heart Association (AHA)  
Project Period: 01/01/2017 - 12/31/2019 (*award relinquished on 09/31/2018 upon acceptance of a position outside the USA*)  
Role: Principal Investigator

Title: Wnt Signaling in Abdominal Aortic Aneurysms  
AHA Founders Affiliate Postdoctoral Grant 13POST17060028  
Source: American Heart Association (AHA)  
Project Period: 07/01/2013 - 06/30/2015  
Role: Postdoctoral Trainee  
Supervisor: Kenneth Walsh (Boston University)

Title: The Sfrp5/Wnt5a axis: a new connection between obesity and cardiovascular disease? Ramón Areces Foundation Postdoctoral Fellowship  
Source: Ramón Areces Foundation, Spain  
Project Period: 09/01/2011 - 06/30/2013  
Role: Postdoctoral Trainee  
Supervisor: Kenneth Walsh (Boston University)

Title: CSIC-I3P Predoctoral Fellowship  
Source: Spanish Council for Scientific Research (CSIC), Spain  
Project Period: 01/01/2006 - 12/31/2009  
Role: Predoctoral Trainee  
Mentor: Vicente Andrés (Institute of Biomedicine of Valencia, IBV-CSIC)

#### **INVITED LECTURES AND PRESENTATIONS (2020 and selection from 2011-2019)**

- 12/2020 “Somatic mutations and clonal hematopoiesis in cardiovascular and metabolic disease”. Mount Sinai School of Medicine Cardiovascular Research Center, NY, USA. *Online. [Invited Lecture]*
- 11/2020 “Mutaciones somáticas y hematopoyesis clonal en enfermedad cardiovascular aterosclerótica”. XV Curso de Formación Continuada en Trombosis y Hemostasia, Sociedad Española de Trombosis y Hemostasia (Spanish Society of Thrombosis and Hemostasis), Spain. *Online. [Invited Lecture]*
- 10/2020 “Somatic mutations and clonal hematopoiesis in age-related cardiovascular and metabolic disease”. Adipose Tissue Metabolism and Cardiovascular Diseases Symposium, Université de Lausanne, Switzerland. Online. [Invited Lecture]
- 10/2020 “Hematopoyesis clonal: ¿nuevo factor de riesgo cardiovascular?”. Sociedad Española de Cardiología (Spanish Society of Cardiology) Congress 2020 – Basic Research Track, Spain. *Online. [Invited Lecture]*
- 10/2020 “Hematopoyesis clonal e inflamación vascular: nuevas implicaciones en la enfermedad cardiovascular”. Sociedad Española de Trombosis y Hemostasia (Spanish Society of Thrombosis and Hemostasis)/Sociedad Española de Hematología y Hemoterapia (Spanish Society of Hematology and Hemotherapy) Congress 2020. Online. [Invited Lecture]
- 09/2020 “Consequences of epigenetic gene mutations on CVD progression and therapeutic implications”. European Society of Cardiology Congress 2020: The Digital Experience. Online. [Invited Lecture]
- 08/2020 “Somatic mutations and clonal hematopoiesis: emerging risk modifiers in atherosclerosis and beyond”. Cardiometabolism Virtual Seminar Series 2020. Online. [Invited Lecture]
- 05/2020 “Somatic mutations and clonal hematopoiesis in inflammation and cardiovascular disease”. Joint Meeting on Vascular Biology, Inflammation and Thrombosis, Medical University of Vienna, Austria. Online. [Invited Lecture]
- 01/2020 “Clonal Haematopoiesis in heart failure”. European Society of Cardiology Heart Failure Winter Meeting 2020. Les Diablerets, Switzerland. *[Invited Lecture]*
- 12/2019 “Somatic mutations and clonal hematopoiesis in cardiovascular disease: commonalities with cancer”. Josep Carreras Leukemia Research Foundation. Badalona, Spain. *[Invited Lecture]*
- 11/2019 “TET2 - a new driver of age-related CVD”. American Heart Association Scientific Sessions 2019. Philadelphia, PA, USA. *[Invited Lecture]*

- 09/2019 “Clonal hematopoiesis - an emerging risk modifier in atherosclerosis”. European Society of Cardiology Congress 2019. Paris, France. [*Invited Lecture*]
- 07/2019 “Somatic mutations and clonal hematopoiesis as drivers of inflammation and cardiovascular disease. 39<sup>th</sup> Spanish Society of Pharmacology (SEF) Meeting. Las Palmas de Gran Canaria, Spain [*Invited Plenary Lecture*]
- 06/2019 “Mutaciones somáticas y hematopoyesis clonal: Nuevas implicaciones en la enfermedad cardiovascular”. XXXII Congress of the Spanish Arteriosclerosis Society (SEA). Valencia, Spain. [*Invited Lecture*]
- 02/2019 “Somatic mutations and clonal hematopoiesis in cardiovascular disease: commonalities with cancer”. Centro Nacional de Investigaciones Oncológicas (CNIO). Madrid, Spain. [*Invited Lecture*]
- 01/2019 “Somatic mutation-driven clonal hematopoiesis: a new player in atherosclerotic and cardiometabolic disease”. International Workshop: Clonal hematopoiesis and radiation-associated diseases. Radiation Effects Research Foundation (RERF). Hiroshima, Japan. [*Invited Lecture*]
- 12/2018 “Age-related somatic mutations and risk of atherosclerotic disease”. IV UIMP/IBiS School of Biomedicine. Sevilla, Spain. [*Invited Lecture*]
- 09/2018 “Mutaciones somáticas y hematopoyesis clonal en enfermedad cardiovascular aterosclerótica”. Center for Applied Medical Research (CIMA). Pamplona, Spain. [*Invited Lecture*]
- 11/2017 “Somatic TET2 Mutation-induced Clonal Hematopoiesis: A new driver of Atherogenesis”. American Heart Association Scientific Sessions 2017 - Frontiers in Science Symposium, Anaheim, CA. [*Invited Lecture*]
- 06/2017 “Somatic mutation-induced clonal hematopoiesis: a new driver of atherosclerosis”. University of Virginia Cardiovascular Research Center, Charlottesville, VA. [*Invited Lecture*]
- 05/2017 “Somatic mutation-induced clonal hematopoiesis: a new driver of atherosclerotic cardiovascular disease”. Boston University Whitaker Cardiovascular Institute. Boston, MA. [*Invited Lecture*]
- 05/2017 “Somatic mutation-induced clonal hematopoiesis: a new driver of atherosclerotic cardiovascular disease”. Spanish National Cardiovascular Research Center (CNIC). Madrid, Spain. [*Invited Lecture*]
- 11/2015 “Non-canonical Wnt signaling in abdominal aortic aneurysm formation”, Brigham and Women’s Hospital, Harvard Medical School. Boston, MA. [*Invited Lecture*]
- 11/2014 “Non-canonical Wnt signaling: a new player in adipose tissue inflammation”, Boston University Immune Cells and Metabolism Symposium. Boston, MA. [*Invited Lecture*]
- 05/2011 “Cardiovascular disease, diabetes and lifestyle”, Berzelius Symposium - Telomere biology in health and disease – a crystal ball for the future? Swedish Society of Medicine, Stockholm, Sweden. [*Session Chair/Discussion Leader*]



6. **Fuster JJ\***, MacLauchlan S, Zuriaga MA, Polackal MN, Ostriker AC, Chakraborty R, Wu C-L, Sano S, Muralidharan S, Rius C, Vuong J, Jacob S, Muralidhar V, Robertson AAB, Cooper MA, Andres V, Hirschi KK, Martin KA, Walsh K\* (2017). *Clonal hematopoiesis associated with TET2 deficiency accelerates atherosclerosis development in mice.* **Science**. 355(6327):842-847. doi: 10.1126/science.aag1381.

**\*Co-corresponding authors.**

IF: 41.06

Journal in the top 10<sup>th</sup> percentile (Multidisciplinary Sciences)

Editorials and Research Highlight articles on Fuster et al, Science 2017

Perspective: Hematopoietic stem cells gone rogue. Zhu YP, Hedrick CC, Gaddis DE. **Science**. 2017 Feb 24;355(6327):798-799. doi:10.1126/science.aam7939.

News and Views: Cardiovascular disease: Commonality with cancer. Tall AR, Levine RL. **Nature**. 2017 Mar 2;543(7643):45-47. doi:10.1038/nature21505.

Research Highlight: **Nature**. 2017 Jan 25; 541:438. doi:10.1038/541438c.

Research Highlight: **Nature Reviews Drug Discovery**. 2017 Mar 1;16(3):166. doi: 10.1038/nrd.2017.40.

Research Highlight: **Nature Immunology**. 2017 Mar 22;18(4):373. doi:10.1038/ni.3721.

Editor's choice: **Science Signaling**. 2017 Feb 28;10(468). doi:10.1126/scisignal.aan0468.

Selected by **Nature Medicine** as *Notable Biomedical Advance of the Year 2017*. **Nature Medicine** 2017;23:1387. doi: 10.1038/nm1217-1387.

Recommended in **F1000prime**: <https://f1000.com/prime/727224345>

7. MacLauchlan S, Zuriaga MA, **Fuster JJ**, Cuda C, Jonason J, Behzadi F, Parker Duffen J, Haines III GK, Aprahamian T, Perlman H, Walsh K (2017). *Genetic deficiency of Wnt5a diminishes disease severity in a murine model of rheumatoid arthritis.* **Arthritis Res Ther**. 19(1):166. doi: 10.1186/s13075-017-1375-0. PMID: 28724439

IF 4.27

Journal in the top 25th percentile (Rheumatology)

8. Zuriaga MA, **Fuster JJ**, Gokce N, Walsh K (2017). *Humans and Mice Display Opposing Patterns of "Browning" Gene Expression in Visceral and Subcutaneous White Adipose Tissue Depots.* **Front Cardiovasc Med**. 2017 May 5;4:27. doi: 10.3389/fcvm.2017.00027. PMID: 28529941

IF: not available

9. Bretón-Romero R, Feng B, Holbrook M, Farb MG, Fetterman JL, Linder EA, Berk BD, Masaki N, Weisbrod RM, Inagaki E, Gokce N, **Fuster JJ**, Walsh K, Hamburg NM (2016). *Endothelial Dysfunction in Human Diabetes Is Mediated by Wnt5a-JNK Signaling.* **Arterioscler Thromb Vasc Biol**. 36(3):561-9. PMID: 26800561

IF: 5.97

Journal in the top 10th percentile (Peripheral Vascular Disease)

10. Farb MG, Karki S, Park SY, Saggese SM, Carmine B, Hess DT, Apovian C, Fetterman JL, Bretón-Romero R, Hamburg NM, **Fuster JJ**, Zuriaga MA, Walsh K, Gokce N (2016). *WNT5A-JNK regulation of vascular insulin resistance in human obesity.* **Vascular Medicine**. 21(6):489-496. PMID: 27688298

IF: 1.3

11. Nakamura K, Sano S, **Fuster JJ**, Kikuchi R, Shimizu I, Ohshima K, Katanasaka Y, Ouchi N, Walsh K (2016). *Secreted Frizzled-related Protein 5 Diminishes Cardiac Inflammation and Protects the Heart from Ischemia/Reperfusion Injury.* **J Biol Chem**. 291(6):2566-75. PMID: 26631720 PMCID: PMC4742726

IF: 4.6

Journal in the top 25<sup>th</sup> percentile (Biochemistry & Molecular Biology)

12. Valero-Muñoz M, Li S, Wilson RM, Hulsmans M, Aprahamian T, **Fuster JJ**, Nahrendorf M, Scherer PE, Sam F (2016). *Heart Failure With Preserved Ejection Fraction Induces Beiging in Adipose Tissue. **Circ Heart Fail.** 9(1):e002724. PMID: 26721917*  
 IF: 6.8      Journal in the top 10<sup>th</sup> percentile (Cardiac & Cardiovascular Systems)
13. Molina-Sánchez P, Chèvre R, Rius C, **Fuster JJ**, Andrés V (2015). *Loss of p27 phosphorylation at Ser10 accelerates early atherogenesis by promoting leukocyte recruitment via RhoA/ROCK. **J Mol Cell Cardiol.** 84:84-94. PMID: 25908026*  
 IF: 4.9      Journal in the top 25<sup>th</sup> percentile (Cardiac & Cardiovascular Systems)
14. **Fuster JJ**, Zuriaga MA, Ngo DT, Farb MG, Aprahamian T, Yamaguchi TP, Gokce N, Walsh K (2015). *Non-canonical Wnt signaling promotes obesity-induced adipose tissue inflammation and metabolic dysfunction. **Diabetes.** 64(4):1235-48. PMID: 25352637*  
 IF: 8.8      Journal in the top 10<sup>th</sup> percentile (Endocrinology & Metabolism)
15. Kikuchi R, Nakamura K, MacLauchlan S, Ngo DT, Shimizu I, **Fuster JJ**, Katanasaka Y, Yoshida S, Qiu Y, Yamaguchi TP, Matsushita T, Murohara T, Gokce N, Bates DO, Hamburg NM, Walsh K (2014). *An antiangiogenic isoform of VEGF-A contributes to impaired vascularization in peripheral artery disease. **Nat Med.** 20:1464-71. PMID: 25362254*  
 IF: 27.4      Journal in the top 10<sup>th</sup> percentile (Medicine, Research and Experimental)
16. Yoshida S, **Fuster JJ**, Walsh K (2014). *Adiponectin attenuates abdominal aortic aneurysm formation in hyperlipidemic mice. **Atherosclerosis.** 235(2):339-346. PMID: 24911638*  
 IF: 4.0      Journal in the top 25<sup>th</sup> percentile (Peripheral Vascular Disease)
17. Murdoch CE, Shuler M, Haeussler DJF, Kikuchi R, Bearely P, Han J, Watanabe Y, Fuster JJ, Walsh K, Ho YS, Bachschmid MM, Cohen RA, Matsui R (2014). *Glutaredoxin-1 up-regulation induces soluble vascular endothelial growth factor receptor 1, attenuating post-ischemia limb revascularization. **J Biol Chem.** 289:8633-8644. PMID: 24482236 PMCID: PMC3961686*  
 IF: 4.6      Journal in the top 25<sup>th</sup> percentile (Biochemistry & Molecular Biology)
18. Zotes TM, Arias CF, **Fuster JJ**, Spada R, Pérez-Yagüe S, Hirsch E, Wymann M, Carrera AC, Andrés V, Barber DF (2013). *PI3K p110 $\gamma$  deletion attenuates murine atherosclerosis by reducing macrophage proliferation but not polarization or apoptosis in lesions. **PLoS One.** 8(8):e72674. PMID: 23991137 PMCID: PMC3750002*  
 IF: 3.5      Journal in the top 25<sup>th</sup> percentile (Multidisciplinary Sciences)
19. **Fuster JJ**, Molina-Sánchez P, Jovaní D, Vinué Á, Serrano M, Andrés V (2012). *Increased gene dosage of the Ink4/Arf locus does not attenuate atherosclerosis development in hypercholesterolaemic mice. **Atherosclerosis.** 221:98-105. PMID: 22226369*  
 IF: 3.7      Journal in the top 25<sup>th</sup> percentile (Peripheral Vascular Disease)
20. **Fuster JJ**, González-Navarro H, Vinué A, Molina-Sánchez P, Andrés-Manzano MJ, Nakayama KI, Nakayama K, Díez-Juan A, Bernad A, Rodríguez C, Martínez-González J, Andrés V (2011). *Deficient p27 phosphorylation at serine 10 increases macrophage foam cell formation and aggravates atherosclerosis through a proliferation-independent mechanism. **Arterioscler Thromb Vasc Biol.** 31:2455-2463. PMID: 21885849*  
 IF: 6.4      Journal in the top 10<sup>th</sup> percentile (Peripheral Vascular Disease)



34. **Fuster JJ**, Andrés V (2010). *A role for miR-33 in p53 regulation: New perspectives for hematopoietic stem cell research.* **Cell Cycle.** 9(17):3397-8. doi: 10.4161/cc.9.17.13070. PMID: 20861665
35. **Fuster JJ**, Díez J, Andrés V (2007). *Telomere dysfunction in hypertension.* **J Hypertens.** 25:2185-2192. PMID: 17921808
36. **Fuster JJ**, Sanz-González SM, Moll UM, Andrés V (2007). *Classic and novel roles of p53: prospects for anticancer therapy.* **Trends Mol Med.** 13:192-199. PMID: 17383232
37. **Fuster JJ**, Andrés V (2006). *Telomere biology and cardiovascular disease.* **Circ Res.** 99:1167-1180. PMID: 17122447

### Book Chapters

38. **Fuster JJ** (2015). "*Quantification of cellular proliferation in mouse atherosclerotic lesions*" in "Methods in Mouse Atherosclerosis" of the series "Methods in Molecular Biology" (Elsevier 2015). **Methods Mol Biol.** 1339:201-10. PMID: 26445791
39. **Fuster JJ**, Castillo AI, Zaragoza C, Ibáñez B, Andrés V (2014). "*Animal models of atherosclerosis*" in Progress in Molecular Biology and Translational Science - Animal Models of Molecular Pathology (Elsevier 2014). **Prog Mol Biol Transl Sci.** 105:1-23. PMID: 22137427
40. Andrés V, **Fuster JJ**, Silvestre-Roig C, Wessely R (2012). "*Modulating the Proliferative Response to Treat Restenosis after Vascular Injury*" in Molecular and Translational Vascular Medicine (Springer 2012). **Mol Transl Vasc Med.** 227-248

### PATENTS

Title: Age-associated clonal hematopoiesis accelerates cardio-metabolic disease development

Inventors: Kenneth Walsh and José Fuster

US10041044B2/WO2018022982A1

Filed on: July 28, 2017      Granted on: December 28, 2018

Priority Country: U.S.A.