

Curriculum vitae

Ministry of Sciences and technology (summary)

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Category: Senior Investigator (IS)
Name: Carlos Alberto Cano Gutiérrez
Nationality: Colombian
Sex: Male
ORCID code: <http://orcid.org/0000-0001-5680-7880>

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Pontificia Universidad Javeriana, School of Medicine, Bogotá, Colombia	MD	06/1986	Medicine/Surgery
Universidad Complutense, Medicine/Geriatric, Madrid, Spain	MA	06/1991	Geriatric Medicine

Personal Statement

I have more than 28 years of experience as a researcher involved in normal and pathological aging, nutrition, muscle, sarcopenia and dementia in Colombia and other countries in Latin America. Since 1994, along with my colleagues, we created the Memory and Cognitive Center (Intellectus) at the University San Ignacio's Hospital of the Javeriana University (PUJ). In 2000 I created the Aging Institute at PUJ, in order to offer treatment and investigation

programs. In 2009 I opened the postgraduate program in geriatrics medicine. At present, more than 24 geriatricians in training, 24 geriatric professors, psychiatrists, neurologists, neuropsychologists, psychologists, and post doc students are under my supervision to research on clinical and translational normal and pathological aging. We also have supported the Colombian Family support of the Alzheimer's Disease (1995) and the frontotemporal dementia family group (2009). Lately, we obtained grants in order to study normal and pathological aging in national population survey. Additionally, I am a National Consultant in aging public policy. My academic and research training and experience in addition to my professional connections made me able to lead this project. This gives us the opportunity to assess and investigate these impairments to make better diagnosis and prognosis assessment of the disease. As director of the Institute of Aging, I support the research. Therefore, I also coordinate and emphasize the importance of the interdisciplinary work between clinical, genetics and neuroimaging in this area. Additionally, he has also been the promoter, founder and director of numerous scientific and social programs and initiatives for the improvement of health and quality of life of the elderly population in Colombia and has authored more than 50 scientific publications in medical journals. His main research areas are dementia and aging at molecular, clinical and epidemiological levels.

Positions and Honors

Positions and Employment

- | | |
|-----------|--|
| 1988-1991 | Medical Residency Geriatric Medicine, Universidad Complutense, Madrid
Spain |
| 1991-1992 | Training in Geriatric Medicine, Glasgow, Scotia |
| 1994-2007 | Associate Professor in Geriatrics, Internal Medicine Department, Geriatric
Unit, Hospital San Ignacio, Pontificia Universidad Javeriana, Bogotá
Colombia |

- 2007-2010 Director Geriatric Unit. Internal Medicine Department, Fundación Santa Fe de Bogotá
- 2007-2010 Director Research group of Ageing, Fundación Santa Fe de Bogotá
- 2007-2010 Professor of Medical School. Universidad de los Andes. Bogotá Colombia
- 2010-actual Full Professor in Geriatrics, Internal Medicine Department, Geriatric Unit, Hospital San Ignacio, Pontificia Universidad Javeriana, Bogotá Colombia
- 2010-actual Director Institute on Aging, Pontificia Universidad Javeriana, Bogotá Colombia.
- 2017-actual Senior Investigator Colciencias (The Administrative Department of Science, Technology and Innovation) is a Colombian government agency that supports fundamental and applied research in Colombia.
- 2016- Actual Executive President Committee of the Latin American Academy of the Medicine for the Older Adults (ALMA) PAHO/WHO.

Other Experience and Professional Memberships

- 1996-2000 President of Colombian Geriatric and Gerontology Society
- 2004-2008 President of Colombian Geriatric and Gerontology Society

Honors

- 2016 Honorable mention awarded by the National Medicine Academy in investigation “enlightened decisions and public interventions for the elderly” SABE study Bogota.
- 2016 Guillermo Marroquin Sanchez award for the paper titled: “elderly population in Colombia. Living memory of violence and resistance”. In the XII Colombian Congress of geriatrics and gerontology.
- 2016 Poster presentation acknowledgement: “disability, functionality and comorbidities in the elderly. SABE study Bogota 2012”. In the XII Colombian Congress of geriatrics and gerontology.

2008 Invited Professor to 13th Winter Series on Aging, University of Texas
Medical Branch Sealy Center on Aging. Galveston Texas, USA.

Contributions to Science (Five in last year)

1. Normative Values for the Short Physical Performance Battery (SPPB) and Their Association With Anthropometric Variables in Older Colombian Adults. The SABE Study, 2015. Ramírez-Vélez R1, Pérez-Sousa MA2, Venegas-Sanabria LC3, Cano-Gutierrez CA3, Hernández-Quiñonez PA4, Rincón-Pabón D5, García-Hermoso A1,6, Zambom-Ferraresi F1, Sáez de Asteasu ML1, Izquierdo M1,7. *Front Med (Lausanne)*. 2020 Feb 20; 7:52. doi: 10.3389/fmed.2020.00052. eCollection 2020

2. Obesity- and Lipid-Related Parameters in the Identification of Older Adults with a High Risk of Prediabetes According to the American Diabetes Association: An Analysis of the 2015 Health, Well-Being, and Aging Study. Ramírez-Vélez R1,2, Pérez-Sousa MÁ3, González-Ruíz K4, Cano-Gutierrez CA5, Schmidt-RioValle J6, Correa-Rodríguez M7, Izquierdo M8,9,10, Romero-García JA11, Campos-Rodríguez AY12, Triana-Reina HR13, González-Jiménez E14. *Nutrients*. 2019 Nov 4;11(11). pii: E2654. doi: 10.3390/nu11112654

3. Gait speed moderates the adverse effect of obesity on dependency in older Colombian adult. Ramírez-Vélez R1, Pérez-Sousa MA2, Venegas-Sanabria LC3, Chavarro-Carvajal DA4, Cano-Gutierrez CA5, Correa-Bautista JE6, González-Ruíz K7, Izquierdo M8. *Exp Gerontol*. 2019 Nov; 127:110732. doi: 10.1016/j.exger.2019.110732. Epub 2019 Sep 7.

4. Validation of Surrogate Anthropometric Indices in Older Adults: What Is the Best Indicator of High Cardiometabolic Risk Factor Clustering. Ramírez-Vélez R1, Pérez-Sousa MÁ2, Izquierdo M3,4, Cano-Gutierrez CA5, González-Jiménez E6, Schmidt-RioValle J6,

González-Ruíz K7, Correa-Rodríguez M6. *Nutrients*. 2019 Jul 24;11(8). pii: E1701. doi: 10.3390/nu11081701. *Nutrients*. 2019 Jul 24;11(8). pii: E1701. doi: 10.3390/nu11081701.

5. Association of depressive symptoms and subjective memory complaints with the incidence of cognitive impairment in older adults with high blood pressure. Borda MG1,2,3, Santacruz JM4,5, Aarsland D1,6, Camargo-Casas S2, Cano-Gutierrez CA2,7, Suárez-Monsalve S2, Campos-Fajardo S2, Pérez-Zepeda MU2. *Eur Geriatr Med*. 2019 Jun;10(3):413-420. doi: 10.1007/s41999-019-00185-1. Epub 2019 Apr 3.

Papers (No books or book chapters)

1. Ramírez-Vélez R, Pérez-Sousa M, García-Hermoso A, Zambom-Ferraresi F, Martínez-Velilla N, Sáez de Asteasu M et al. Relative Handgrip Strength Diminishes the Negative Effects of Excess Adiposity on Dependence in Older Adults: A Moderation Analysis. *Journal of Clinical Medicine*. 2020;9(4):1152.
2. Ramírez-Vélez R, Pérez-Sousa M, González-Ruíz K, Cano-Gutierrez C, Schmidt-RioValle J, Correa-Rodríguez M et al. Obesity- and Lipid-Related Parameters in the Identification of Older Adults with a High Risk of Prediabetes According to the American Diabetes Association: An Analysis of the 2015 Health, Well-Being, and Aging Study. *Nutrients*. 2019 Nov; 11(11): 2654.
3. Ramírez-Vélez R, Pérez-Sousa M, Izquierdo M, Cano-Gutierrez C, González-Jiménez E, Schmidt-RioValle J et al. Correction: Ramírez-Vélez, R.; et al. Validation of Surrogate Anthropometric Indices in Older Adults: What Is the Best Indicator of High Cardiometabolic Risk Factor Clustering? *Nutrients*. 2019;11(10): 2413.

4. Perez-Sousa M, Venegas-Sanabria L, Chavarro-Carvajal D, Cano-Gutierrez C, Izquierdo M, Correa-Bautista J et al. Gait speed as a mediator of the effect of sarcopenia on dependency in activities of daily living. *Journal of Cachexia, Sarcopenia and Muscle*. 2019;10(5):1009-1015.
5. Ramírez-Vélez R, Pérez-Sousa M, Izquierdo M, Cano-Gutierrez C, González-Jiménez E, Schmidt-RioValle J et al. Validation of Surrogate Anthropometric Indices in Older Adults: What Is the Best Indicator of High Cardiometabolic Risk Factor Clustering?. *Nutrients*. 2019;11(8):1701.
6. Borda M, Reyes-Ortiz C, Heredia R, Castellanos-Perilla N, Ayala Copete A, Soennesyn H et al. Association between self-reported hearing impairment, use of a hearing aid and performance of instrumental activities of daily living. *Archives of Gerontology and Geriatrics*. 2019;83:101-105.
7. Ramírez-Vélez R, Correa-Bautista J, García-Hermoso A, Cano C, Izquierdo M. Reference values for handgrip strength and their association with intrinsic capacity domains among older adults. *Journal of Cachexia, Sarcopenia and Muscle*. 2019;10(2):278-286.
8. Borda M, David-Pardo D, Ríos-Zuluaga J, López-Zea A, Forero-Borda L, Gutiérrez S et al. Asociación entre tamización de cáncer de próstata, vinculación al sistema de salud y factores asociados en adultos mayores: análisis secundario de la encuesta SABE Bogotá, Colombia. *Revista Urología Colombiana / Colombian Urology Journal*. 2018;27(01): 35-41.
9. Aurachán Torres S, Ayala Copete A, Patiño Hernández D, Rios Zuluaga J, García Peña Á, Cano Gutiérrez C. Riesgo diferencial de hemorragia intracraneana en pacientes con fibrilación auricular no valvular con el uso de nuevos anticoagulantes orales vs.

warfarina. Revisión sistemática de la literatura y análisis de subpoblaciones.
Universitas Médica. 2017;58(2)

10. Samper-Ternent R, Reyes-Ortiz C, Ottenbacher K, Cano C. Frailty and sarcopenia in Bogotá: results from the SABE Bogotá Study. *Aging Clin Exp Res.* 2017 Apr;29(2):265-272.
11. Venegas L, Barbosa Balaquera S, Suarez Acosta A, García Peña Á, Cano Gutiérrez C. Statin and risk of falls in the elderly: A systematic review of the literature. *Rev Esp Geriatr Gerontol.* 2017;52:317-21
12. Patiño-Hernandez D, David-Pardo D, Borda M, Pérez-Zepeda M, Cano-Gutiérrez C. Association of Fatigue With Sarcopenia and its Elements: A Secondary Analysis of SABE-Bogotá. *Gerontol. Geriatr. Med.* 2017;3
13. Borda M, Venegas-Sanabria L, Puentes-Leal G, Garcia-Cifuentes E, Chavarro-Carvajal D, Cano C. Oropharyngeal dysphagia in older adults: The well-known tale. *Geriatrics & Gerontology International.* 2017;17(6):1031-1033.
14. Borda M, Celis-Preciado C, Pérez-Zepeda M, Ríos-Zuluaga J, Cano-Gutiérrez C. Sarcopenia en ancianos con antecedente de EPOC/asma: resultados del estudio SABE - Bogotá. *Revista Española de Geriatria y Gerontología.* 2017;52(6):313-316.
15. Garcia-Cifuentes E, David-Pardo DG, Borda MG, Perez-Zepeda MU, Cano-Gutiérrez C. TWO-WAY Bridge between Muscular Dysfunction and Cognitive Impairment: Secondary Analyses of SABE - Bogota Study. *J Frailty Aging.* 2017;6(3):141-143
16. Borda M, Patiño-Hernandez D, Morros-González E, Pérez-Zepeda M, Chavarro-Carvajal D, Cano-Gutiérrez C et al. Sensor Augmented Insulin Pump Therapy in Older Adults:

Impact on Self-Rated Health and Glycemic Control. Journal of the American Medical Directors Association. 2017;18(6):545-547.

17. Cano-Gutiérrez C, Borda M, Reyes-Ortiz C, Arciniegas A, Samper-Ternent R. Assessment of factors associated with functionality in older adults over 60 years in Bogotá, Colombia. Biomédica. 2016;37.
18. Borda M, Ruiz de Sánchez C, Gutiérrez S, Ortiz A, Samper R, Cano-Gutiérrez C. Relación entre deterioro cognoscitivo y actividades instrumentales de la vida diaria: Estudio SABE-Bogotá, Colombia. Acta Neurológica Colombiana. 2016;32(1):27-34.
19. Cano-Gutierrez C, Reyes-Ortiz C, Borda M, Arciniegas AJ. Self-reported vaccination in the elderly : SABE Bogotá study, Colombia Médica 2016; Vol. 47 N°1 (Ene-Mar)
20. Borda M, Acevedo González J, David D, Morros González E, Cano C. Dolor en el anciano: calidad de vida, funcionalidad y factores asociados. Estudio SABE, Bogotá, Colombia. Revista Española de Geriátría y Gerontología. 2016;51(3):140-145.
21. Gómez Muñoz J, Gómez Rincón J, Alí Munive A, Cano Gutierrez C, Coral Alvarado P, Coronell Rodríguez W et al. Guías para la inmunización del adolescente y adulto en Colombia. Documento de actualización, 2016. Infectio. 2016;20(4):192-210.
22. Cano-Gutierrez C, Samper-Ternent R, Cabrera J, Rosselli D. Uso de medicamentos en adultos mayores de Bogotá, Colombia. Revista Peruana de Medicina Experimental y Salud Pública. 2016;33(3):419.
23. Cano-Gutierrez C, Arciniegas Rubio A, Germán Borda M, Samper-Ternent R, Gil Laverde F, Londoño Trujillo D. Perception of health-related quality of life using the

EURO-QOL in older adults in Bogotá, Colombia. *European Geriatric Medicine*. 2016;7(4):340-345.

24. Patiño-Hernandez D, Borda M, Venegas Sanabria L, Chavarro-Carvajal D, Cano-Gutierrez C. Sarcopenic dysphagia. *Rev Col Gastroenterol* / 31 (4) 2016
25. Borda, M, Acevedo González, J. C., David, D. G., Morros González, E., & Cano, C. A. (2016). Dolor en el anciano: calidad de vida, funcionalidad y factores asociados. Estudio SABE, Bogotá, Colombia. *Rev. Esp. Geriatr y Gerontol*, 2015 51(3), 140–145.
26. Cano-Gutierrez C, Matallana D. Actuales retos diagnósticos a partir de un análisis de características Socio-demográficas de 2453 pacientes de una Clínica de Memoria y Cognición En Colombia. *Acta Neurológica Colombiana* ISSN: 0120-8748 Vol 31 fasc.1 p.27 -38 ,2015
27. Cano-Gutierrez C, Reyes-Ortiz C, Samper-Ternent R, Gélvez-Rueda J, Borda M. Prevalence and Factors Associated to Hypertension Among Older Adults in Bogotá, Colombia. *Journal of Aging and Health*. 2015;27(6):1046-1065.
28. Cano-Gutiérrez C, Borda M, Arciniegas AJ, Borda Cx. Edentulism and dental prostheses in the elderly: impact on quality of life measured with EuroQol-visual analog scale (EQ-VAS). *Acta Odontol. Latinoam*. 2015 Vol. 28 N° 2 / 2015 / 149-155 ISSN 1852-4834
29. Chavarro-Carvajal D, Reyes-Ortiz C, Samper-Ternent R, Arciniegas A, Gutierrez C. Nutritional Assessment and Factors Associated to Malnutrition in Older Adults. *Journal of Aging and Health*. 2014;27(2):304-319.

30. Cano C, Borda M, Arciniegas A, Parra J. Problemas de la audición en el adulto mayor, factores asociados y calidad de vida: Estudio SABE Bogotá, Colombia. *Biomédica*. 2014;34(4).
31. García P, Cano C, González C, García R, Arroyave M. Trasplante renal en mayores de 60 años en un hospital de Colombia. *Revista Española de Geriatria y Gerontología*. 2014;49(3):125-128.
32. Gómez-Restrepo C, Rodríguez M, Díaz N, Cano C, Tamayo N. Depresión y satisfacción con la vida en personas mayores de 60 años en Bogotá: Encuesta de Salud, Bienestar y Envejecimiento (SABE). *Revista Colombiana de Psiquiatría*. 2013;43:65-70.
33. Matallana D, Reyes P, Palacio K, Moreno T, Montañés P, Cano C. Demencia y creatividad: emergencia de una actividad pictórica en un paciente con afasia primaria progresiva. *Revista Colombiana de Psiquiatría*. 2011;40(4):807-817.
34. Cano C, Samper-Ternent R, Al Snih S, Markides K, Ottenbacher K. Frailty and cognitive impairment as predictors of mortality in older Mexican Americans. *The journal of nutrition, health & aging*. 2011;16(2):142-147.
35. Matallana D, de Santacruz C, Cano C, Reyes P, Samper-Ternent R, Markides K et al. The Relationship Between Education Level and Mini-Mental State Examination Domains Among Older Mexican Americans. *Journal of Geriatric Psychiatry and Neurology*. 2010;24(1):9-18.
36. Cano Gutiérrez C. Desde Colombia. *Revista Española de Geriatria y Gerontología*. 2008;43:41.
37. Cano-Gutierrez CA, Ramírez RA. Avances nosológicos de las demencias. Caracterización de los pacientes con demencia frontotemporal. *MedUNAB* 2004. Disponible en: <https://revistas.unab.edu.co/index.php/medunab/article/view/225>

38. Cano-Gutierrez C. Tratamiento de las demencias. Revista Colombiana de Psiquiatría ISSN: 0034-7450 ed: Elsevier Science 2007; vol XXXVI fasc.1 p.157-174
39. Cano-Gutierrez C. Intervención no Farmacológica. Revista Colombiana de Ortopedia y Traumatología ISSN: 0120-8845 ed: Elsevier 2006; Vol 20 fasc.1 p.47 - 51 ,2006,
40. Cano-Gutierrez C, Marín P, Morales Martínez F, Peláez M, Rodríguez Mañas L et al. Propuesta de contenidos mínimos para los programas docentes de pregrado en Medicina Geriátrica en América Latina. Revista Panamericana de Salud Pública. 2005;17(5-6):429-437.
41. Montañes-Rios M, Moreno A, Plata S, Matallana M, Cano-Gutierrez C. Anosognosia en la Enfermedad de Alzheimer: Estudio longitudinal. Neurociencias En Colombia ISSN: 0123-4048 2003; 15: 11: p. 7-25
42. Cano-Gutierrez C, Arango V, Morelo L. Alteración Cognoscitiva Leve (Mild Cognitive Impairment, MCI). Revista De La Asociación Colombiana De Gerontología y Geriatria ISSN: 0122-6916 2002; 16: fasc.1: p.321 - 328 ,2002
43. Cano-Gutierrez C, Morelo L, Matallana D, Montañes-Rios M, Garcia R, Jimenez M. Demencia Con Cuerpos De Lewy: Reporte De Un Caso Con Seguimiento Longitudinal. Revista De La Asociación Colombiana De Gerontología y Geriatria ISSN: 0122-6916. 2001; 15: 2: 252 - 258
44. Cano-Gutierrez C, Morelo L. Características de las fracturas de cadera en pacientes ancianos del Hospital Universitario de San Ignacio, seguimiento a un año. Revista De La Asociación Colombiana De Gerontología Y Geriatria ISSN: 0122-6916 2001; 15: 299-306

45. Jacquier M, Arango D, Villareal E, Torres O, Serrano M, Cruts M et al. APOE epsilon4 and Alzheimer's disease: positive association in a Colombian clinical series and review of the Latin-American studies. *Arquivos de Neuro-Psiquiatria*. 2001;59(1):11-17.
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47. Montañes-Rios M, Cano-Gutierrez C, Arango V, Matallana D, García R. Deterioro selectivo del lenguaje debido a degeneración temporal focal: análisis comparativo entre un caso de afasia primaria progresiva y un caso de demencia semántica. *Revista De La Asociación Colombiana De Gerontología y Geriatria* ISSN: 0122-6916 2001;15: 201 - 215
48. Arango V, Jacquier M, Cano-Gutierrez C. Escalas Funcionales De La Vida Diaria Vs. Mmse (Minimental) En La Detección Temprana De La Demencia Tipo Alzheimer. Influencia Del Genotipo Apoe. *Revista De La Asociación Colombiana De Gerontología y Geriatria* ISSN: 0122-6916 2001;15: 231 – 234
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50. Cano-Gutierrez C, Problemática de la población anciana en Colombia. *Revista De La Asociación Colombiana De Gerontología y Geriatria* ISSN: 0122-6916 2001;15: P. 259

51. Cano-Gutierrez C, Arango V, Morelo L. Semiología en el anciano. Universitas Médica ISSN: 0041-9095 . 2001;42: 132 -142
52. Acuña M, Díaz V, Cano-Gutierrez C, Bermúdez M. Delirium en los pacientes ancianos y su relación con la demencia. Revista De La Asociación Colombiana De Gerontología Y Geriatria ISSN: 0122-6916 2001; 15 : 265-270
53. Cano-Gutierrez C. Arango V, Matallana D, García R. Declinamiento normal y patológico de la función normal y cognoscitiva con el envejecimiento: Comparación de un perfil clínico normal, un deterioro cognitivo leve y uno de enfermedad de Alzheimer inicial. Revista De La Asociación Colombiana De Gerontología Y Geriatria ISSN: 0122-6916 2002; Vol. 16 fasc.1 p.338 - 344
54. Cano-Gutierrez C. Delirium. Universitas Médica. ISSN: 0041-9095 2002;43: p.78 – 81
55. Cano-Gutierrez C. Depresión en el Anciano. Revisiones Geriátricas 1998;2: p.1-10
56. Cano-Gutierrez CA, Morelo L, Matallana D, Garcia M, Rodriguez M. Estudio Abierto No Comparativo De Tolerancia Y Efectividad Del Donepezil En Pacientes Con Enfermedad De Alzheimer En Colombia" . Rev De La Asociación Colombiana De Gerontología Y Geriatria ISSN: 0122-6916. 2000;14 Fasc: p .37 – 48
57. Cano-Gutierrez C. Úlceras de la piel en el anciano. Rev. de la Asociación Colombiana De Gerontología y Geriatria ISSN: 0122-69161997; 11: p.8
58. Montañes-Rios M, Matallana D, Jacquier M, Pedraza Linares O, Rascovsky K Cano-Gutierrez C, Quiroga F, Arevalo A. Perfiles Clínicos De Controles Y De Pacientes Con Enfermedad De Alzheimer, Parkinson Y Depresión. Neurociencias En Colombia ISSN: 0123-4048 Ed: Distribuna Ltda. 1997;5: 29-35

59. Cano-Gutierrez C. Nuevas Moléculas en el tratamiento de la Enfermedad de Alzheimer. Revista De La Asociación Colombiana De Gerontología Y Geriátría ISSN: 0122-6916 ed: Editorial Bochica Ltda 1996; 10: 11 – 27

Additional Information: Research Support and/or Scholastic Performance

Research Support

- Grant COLCIENCIAS (Colombian Institute of Health Research) (PI)
2011-present

Well Being and Aging, SABE study

Goal: Epidemiological study with more than 2.000 people aged 60 years and over.

Role: Principal investigator

- COLCIENCIAS (Colombian Institute of Health Research)
2010-present

Frontal Lobe Functioning and Frontal Lobe Dementia

Goal: Pilot project using functional radiology, genetic study and clinical features of a cohort of more than 100 patients with FTD in order to determine frontal lobe functioning in patients diagnosed with frontal lobe dementia

Role: Co-Investigator

- COLCIENCIAS (Colombian Institute of Health Research)
2008-present

Preliminary Study of the Polymorphisms of the Region 5'-UTR of the GRIN1, GRIN2A-D y GRIN3A-B genes of the receptor ionotropic of the Glutamate sensible receptor to N-metil-D-aspartate in elderly patients without Dementia of the Alzheimer's Type.

Goal: Genetic study to determine markers leading to pathophysiological changes related to Alzheimer's Disease that are potential targets for treatment.

Role: Co Investigator

- COLCIENCIAS (Colombian Institute of Health Research)

2012-present

Health Interventions Program guided by the Health Primary Care in reducing the burden of mental disorders generators of the greater chronicity and disability. Subprojects: fMRI, Social cognition and clinical studies. Phase I and Phase II :

Goal: Profiles of FTD Colombian patients as well as neuropsychiatric features of patients with Social Cognition symptoms (TBI; AB Disorders).

Role: Co-Investigator/Principal investigator

- NIA/NIH

2014-2017

Fogarty International Research Collaboration Award with the University of Pennsylvania. Early Onset-Dementia in Colombia.

Role: Colombian Co-Investigator

Completed Research Support

- NIA/NIH. (PI: Ottenbacher, K)

2007-2010.

Fogarty International Research Collaboration Award with the University of Texas Medical Branch

Goal: To compare prevalence rates of frailty in two populations based studies of Hispanic populations and establish the relationship of cognitive function with frailty in the same population group.

Role: Co Investigator and Consortium Leader

Ongoing Research Support

- NIH. USA (R01).
2019- Present
Grant. US-South American initiative for genetic-neural-behavioral interactions in human neurodegenerative research
Role: Co Investigator and Consortium Leader
- European Commission.
2019-Present
Grant. "DIABFRAIL- LATAM: Scaling-up of an evidence-based intervention program in older people with Diabetes and Frailty in LatinAmerica".
Role: Principal investigator (Colombia)
- Grant COLCIENCIAS (Colombian Institute of Health Research) (PI)
2018-present
Goal: Sociodemographic and health conditions of older adults living in the community: secondary analysis of the national survey on Health, Well-being and Aging (SABE Colombia 2015)
Role: Principal investigator
- Nutrition study.
Abbott support fund
2019-present
Goal: *"Assessing the Impact of a Nutrition-Focused Quality Improvement Program (QIP) Among Community-Dwelling Malnourished Colombian Patients Receiving Care in an Ambulatory Health Clinic"*.
Role: Principal investigator