HEALTH AGING
CERPOP UMR 1295 Unité mixte INSERM - Université de Toulouse

Publications 2026

1. Ambrosio F, Artyomov MN, Austad SN, Barzilai N, Belmonte JCI, Belsky DW, Benayoun BA, Brunet A, Dönertaş HM, Dubal DB, Fang EF, Feige JN, Fried LP, Furman D, Gao X, Gladyshev VN, Gorbunova V, Gorospe M, Han JJ, Hansson O, Hara E, Horvath S, Ip NY, Kuchel GA, Kaeberlein M, Lamming DW, Levy BR, Liu GH, Lee J, Moffitt TE, Minamino T, Partridge L, Raina P, Rando TA, Rowe JW, Schwartz M, Scott AJ, Sierra F, Sinclair DA, Teunissen CE, **Vellas B**, Verdin E, Walker KA, Webb AE, Wyss-Coray T, Xu M, Yu JT, Zhavoronkov A, Aman Y, Kriebs A, Ren Q, Walters H, Thuault S. Past, present and future perspectives on the science of aging. Nat Aging. 2026.6(1):6-22. doi: 10.1038/s43587-025-01046-2.
2. Amouyel P, **Andrieu S**, Bradshaw A, Carmona RC, Dumont M, Grinberg LT, Iwatsubo T, Hansson O, Jack CR Jr, Jicha GA, Mahinrad S, McDade E, Mummery CJ, Petersen RC, Robinson S, Schneider JA, Shellcross L, Smith AG, Snyder HM, Tapply B, Teunissen C, van der Flier WM, **Vellas B**, Wallon D, Williamson JD, Wilcock D, Carrillo MC. Provider and patient perspectives on the diagnosis and treatment of Alzheimer's disease: A global perspective from the Global Alzheimer's Leadership Series (GoALS). Alzheimers Dement. 2026.22(6):e71536. doi: 10.1002/alz.71536.
3. Andrade V, Kleineidam L, Wagner-Thelen H, Ballarini T, Campos-Martin R, Martino-Adami P, Tripathi KP, **Guyonnet S, Vellas B**, Scherer M, Maier W, Pentzek M, Schmid M, Riedel-Heller S, Weyerer S, Bickel H, Wiese B, Egert S, Wagner M, Ramírez A. Prediction of cognitive outcome and progression to dementia using ω6-PUFA/ω3-PUFA ratio. Alzheimers Dement. 2026.22(6):e71590. doi: 10.1002/alz.71590.
4. Arunachalam P, Pieperhoff L, Lorenzini L, Tranfa M, Masserini F, Treves F, Pontillo G, Preti MG, Broeders TAA, Schoonheim MM, Douw L, Ritchie C, Boada M, Marquié M, Visser PJ, Cacciaglia R, Gispert JD, Salvadó G, Luckett ES, Collij LE, Cole JH, Barkhof F, Wink AM; AMYPAD consortium (**Ousset PJ** collaborator). Decreased amyloid-related structure-function coupling in preclinical Alzheimer's disease. Commun Med (Lond). 2026. doi: 10.1038/s43856-026-01707-2. Epub ahead of print.
5. Barakat Z, Sacre H, Khatib S, Hajj A, **Bou Malham** C, Haddad C, Zeenny RM, Akel M, Abou Abbas L, Barakat M, Rachidi S, Salameh P. Correction: A contemporary tool for assessing instrumental activities of daily living: Validation of a caregiver-reported scale for non-institutionalized older adults. PLoS One. 2026.21(3):e0345869. doi: 10.1371/journal.pone.0345869. Erratum for: PLoS One. 2025.20(5):e0322554. doi : 10.1371/journal.pone.0322554.
6. Bellelli F, **Delrieu J**, **van Kan GA**, Peluso A, **Soriano G, Vellas B**, **Angioni D**, Sourdet S. Are pre-frail and frail amyloid positive individuals eligible to Lecanemab? A cross-sectional analysis from the Cogfrail real-world cohort. Alzheimers Res Ther. 2026 Feb 4;18(1):56. doi: 10.1186/s13195-026-01966-0.
7. Bensadoun P, Lemaitre JM, **Vellas B, de Souto Barreto P**; IHU HealthAge INSPIRE/Open Science group (**Andrieu S, Cantet C** collaborators). The role of dietary patterns on epigenetic and inflammatory aging based on the INSPIRE-T study. Commun Med (Lond). 2026. doi: 10.1038/s43856-026-01643-1. Epub ahead of print.
8. Boishus P, **Berbon C**, Tavassoli N, De Kerimel J, Bouchon L, Da Costa Ribeiro F, Poly M, Seguela C, Augusto S, Takeda S, **Soto-Martin ME**. Effect of the WHO ICOPE prevention program on falls and

mobility functions : a retrospective study in France. BMC Geriatrics. 2026. doi : 10.1186/s12877-026-08073-7
9. Bouteloup V, Proust-Lima C, Pellegrin I, Boizard-Moracchini A, Roy M, Chêne G, Planche V, Dufouil C; MEMENTO study group (**Delrieu J, Ousset PJ** collaborators). Methodological approaches to account for assay changes in longitudinal biomarker analysis: insights from Alzheimer's blood biomarkers in the MEMENTO cohort. Alzheimers Res Ther. 2026.18(1):167. doi: 10.1186/s13195-026-02042-3.
10. **Cabrol A, Shourick J, Coley N, Oustric S, Guyonnet S, Vellas B, Escourrou E, Andrieu S**; IHU HealthAge INSPIRE/Open Science study group. Feeling Younger as an Indicator of Better Overall Intrinsic Capacities in the INSPIRE-T Cohort. Int J Geriatr Psychiatry. 2026.41(5):e70220. doi: 10.1002/gps.70220.
11. Cavalcante BR, Falck RS, **Barreto PS, Rolland Y**. Exercise training as a cornerstone intervention for sarcopenia: a review. Curr Opin Clin Nutr Metab Care. 2026.29(3):270-276. doi: 10.1097/MCO.0000000000001218.
12. Cesari M, Canevelli M, Amuthavalli Thiyagarajan J, Arai H, Assantachai P, Chan P, Chhetri JK, Ferriolli E, Geffen L, Gregson CL, Guaraldi G, Gutierrez Robledo LM, Hammami S, Jang H, Kalula S, Mathur A, Merchant RA, Oliveira D, Perracini MR, Petrovic M, Polidori-Nelles MC, Rodriguez Mañas L, Rowe JW, Sabzwari S, Sadana R, Sumi Y, Tomarevska O, **Vellas B**, Visvanathan R, Woo J, Martin FC. Frailty and intrinsic capacity: integrating complementary concepts to promote healthy ageing and transformation of care. Age Ageing. 2026.55(5):afag138. doi: 10.1093/ageing/afag138.
13. Chen IT, Lu WH, Hsiao FY, Chen LK, Parini A, Santin Y, Guiard B, Pradere JP, de Cabo R, **Vellas B, Rolland Y, de Souto Barreto P**. Could animal models be used to longitudinally track intrinsic capacity during aging? J Nutr Health Aging. 2026. 30(4):100833. doi: 10.1016/j.jnha.2026.100833.
14. Chen IT, **Lu WH**, Hsiao FY, Chen LK, Parini A, Santin Y, Guiard B, Pradere JP, **Vellas B, Rolland Y, de Souto Barreto P**. Intrinsic capacity evolution during aging in mouse and fish: Longitudinal perspectives from a narrative review. Ageing Res Rev. 2026.119:103183. doi: 10.1016/j.arr.2026.103183.
15. **Couarraze S**, Roda P, Jiao J, Duclos M, Lu N, Thivel D, Nasir H, Zak M; EXPOH group; Joannès C, Dutheil F. Prevention of frailty in the elderly: an expert-based evaluation of measures proposed by artificial intelligence. Geriatr Nurs. 2026.70:104023. doi: 10.1016/j.gerinurse.2026.104023. Epub ahead of print.
16. **de Souto Barreto P**, Ruiz JG. Nutrition for healthy longevity: the past, the present and the future. J Nutr Health Aging. 2026.30(3):100812. doi: 10.1016/j.jnha.2026.100812.
17. Dintilhac A, Qassemi S, Roland C, McCambridge C, Abdeljalil AB, Houles M, Romain M, Toulza O, Dunet C, Belloc A**, Strumia M**, **Cestac P, Voisin T,** Juillard-Condat B. The impact of an intervention by a mobile geriatrics team including a pharmacist on potentially inappropriate drug prescription: results of the PharMoG study. BMC Geriatr. 2026.26(1):598. doi: 10.1186/s12877-026-07366-1.
18. **Escourrou É, Oustric S**. How to Design and Implement a Structured Curriculum in Health Professions Education: A Nine-Step Framework Building on Kern's Approach. Clin Teach. 2026. 23(4):e70455. doi: 10.1111/tct.70455.
19. Fougère B, Morley JE, Little MO, **de Souto Barreto P**, Cesari M, **Vellas B**. Retraction: Interventions against disability in frail older adults: Lessons learned from clinical trials. J Nutr Health Aging. 2026. 30(5):100854. doi: 10.1016/j.jnha.2026.100854.
20. Grande de França N, **de Souto Barreto P**, Jang H, Cesari M, **Rolland Y**. An overview of care coordination elements for older adults with long-term care needs: A narrative review. Arch Gerontol Geriatr. 2026.141:106077. doi: 10.1016/j.archger.2025.106077.
21. Grande de França N, **Rolland Y, Guyonnet S**, Bensadoun P, Lemaitre JM, **Vellas B, de Souto Barreto P**; IHU HealthAge INSPIRE/Open Science group (**Steinmeyer Z, Piau A, Ousset PJ, Abellan**

Van Kan G, Angioni D, Andrieu S, Cantet C, Coley N collaborators). The role of dietary patterns on epigenetic and inflammatory aging based on the INSPIRE-T study. Commun Med (Lond). 2026. doi: 10.1038/s43856-026-01643-1. Epub ahead of print.

22. **Guillotin S, Andrieu S, Delcourt N**. Meta-Analysis and Bioinformatic Analysis of Human Fluid Proteomic Studies Reveal Key Biological Pathways Related to Aging and Frailty. Aging Dis. 2026. doi: 10.14336/AD.2025.0793. Epub ahead of print.
23. Handels R, Hoevenaar-Blom M, Song M, Brayne C, van Charante EM, Matthews FE, Xu J, Jönsson L, **Coley N,** Brooks R, Jian X, Qin T, Wang Y, Wang W, Richard E, Wimo A; PRODEMOS study group. Prevention of dementia using mobile phone applications (PRODEMOS) - a health-economic cost-utility analysis in people aged 55-75 years with low socio-economic status. J Prev Alzheimers Dis. 2026. 13(5):100526. doi: 10.1016/j.tjpad.2026.100526.
24. Lian S, **Rolland Y, de Souto Barreto P**. Growth differentiation factor 15 as a biomarker of frailty: evidence from recent studies. Curr Opin Clin Nutr Metab Care. 2026.29(3):214-223. doi: 10.1097/MCO.0000000000001213.
25. Lin C, Wu H, Xian W, Zheng Y, Du W, Chen X, Li J, Chen W, Lin L, Su F, Pei Z, Liu G; Alzheimer's Disease Neuroimaging Initiative; European Prevention of Alzheimer's Disease (EPAD) Consortium (**Vellas B, Andrieu S, Ousset PJ, Delrieu J** collaborators). Deep learning enhanced ALPS reveals genetic and environmental factors of brain glymphatic function. EBioMedicine. 2026.124:106133. doi: 10.1016/j.ebiom.2026.106133.Erratum in: EBioMedicine. 2026. 125:106180. doi: 10.1016/j.ebiom.2026.106180.
26. Liu GH, Lee J, Moffitt TE, Minamino T, Partridge L, Raina P, Rando TA, Rowe JW, Schwartz M, Scott AJ, Sierra F, Sinclair DA, Teunissen CE, **Vellas B**, Verdin E, Walker KA, Webb AE, Wyss-Coray T, Xu M, Yu JT, Zhavoronkov A, Aman Y, Kriebs A, Ren Q, Walters H, Thuault S. Past, present and future perspectives on the science of aging. Nat Aging. 2026. 6(1):6-22. doi: 10.1038/s43587-025-01046-2.
27. **Lu WH**, Carrie I, Tavassoli N, **Nourhashémi F, Rolland Y, Soto Martín ME, de Souto Barreto P, Vellas B**. Screening high-risk older adults using self-assessed intrinsic capacity: evidence from real-world ICOPE implementation. Age Ageing. 2026. 55(5):afag115. doi: 10.1093/ageing/afag115.
28. Merchant RA, Liu Y, Tan BYQ, Sia CH, Wong A, Tan LF, Duque G, Arai H, Vellas B, Woo J. Association of neurofilament light chain, CXCL9, IL-6, and TNFRSF11B with intrinsic capacity in community-dwelling older adults. Geroscience. 2026. doi: 10.1007/s11357-026-02461-y. Epub ahead of print.
29. Merchant RA, Liu Y, Tan LF, Yeo L, Sandrasageran S, Tay YK, Seet A, Chua L, Tan WM, **Vellas B**. Community-Based ICOPE Screening Identifies Intrinsic Capacity Impairment and Supports Integrated Health and Social Care. J Am Med Dir Assoc. 2026.27(10):106414. doi: 10.1016/j.jamda.2026.106414. Epub ahead of print.
30. **Mestres C, Gardette V, Vincent B**. An exploration of the organizational performance of a care pathway applied to ambulatory surgery: a systems approach. BMC Health Serv Res. 2026. doi: 10.1186/s12913-026-14985-2. Epub ahead of print.
31. Perry R, Kipps C, **Soto Martín ME**, Bozzali M, Logroscino G, Trafford S, Dhadda S, Kanekiyo M, Goodwin A, Hodgkinson M, Hersch S, Irizarry M, Kramer L, Froelich L. Lecanemab for treatment of individuals with early Alzheimer's Disease (AD) who are apolipoprotein E ε4 (ApoE ε4) non-carriers or heterozygotes. J Prev Alzheimers Dis. 2026 Apr;13(4):100507. doi: 10.1016/j.tjpad.2026.100507. Erratum in: J Prev Alzheimers Dis. 2026.13(4):100527. doi: 10.1016/j.tjpad.2026.100527.
32. Peyrusqué E, Elmalem S, **Dubucs X**, Roussel M, **Rolland Y, Balardy L, Villars H**. Implementation of a territorial geriatric hotline in Southwestern France: a monocentric observational study to improve access to geriatric expertise. BMC Geriatr. 2026. doi: 10.1186/s12877-026-07589-2. Epub ahead of print.

33. Ronca A, Bellelli F, Proietti M, **Rolland Y, Vellas B, de Souto Barreto P**. Fatigue, muscle fatigability, and the Hallmarks of Aging: a narrative review. J Nutr Health Aging. 2026.30(6):100844. doi: 10.1016/j.jnha.2026.100844. Epub ahead of print.
34. Ronca A, Morgese V, **de Souto Barreto P**, Proietti M. Intrinsic capacity in older adults: A concise guide for non-geriatricians. Eur J Intern Med. 2026.147:106825. doi: 10.1016/j.ejim.2026.106825.
35. **Rouch L, De Souto Barreto P, Rolland Y, Guyonnet S, Cestac P, Lu WH**, Lemaitre JM, Bensadoun P, Furman D, **Vellas B, Andrieu S**; IHU HealthAge INSPIRE/Open Science group (**Coley N, Abellan van Kan G, Angioni D, Piau A, Steinmeyer Z, Ousset PJ** collaborators. Accelerated Epigenetic and Inflammatory Aging and Intrinsic Capacity. JAMA Netw Open. 2026. 9(7):e2624102. doi: 10.1001/jamanetworkopen.2026.24102.
36. Sánchez-Sánchez JL, **Rolland Y**, Lucas A, **Guyonnet S, Vellas B, de Souto Barreto P**; MAPT/DSA Group. Associations Between Growth Differentiating Factor-15 and Frailty in Older Adults From the MAPT Study. J Cachexia Sarcopenia Muscle. 2026.17(1):e70182. doi: 10.1002/jcsm.70182.
37. Sawicki A, **Gonzalez-Bautista E**, Peluso A, **Abellan van Kan G, Sourdet S, Soto M**. Mild behavioral impairment is longitudinally associated with frailty in very old adults with MCI: insights from COGFRAIL. Aging Clin Exp Res. 2026.38(1):64. doi: 10.1007/s40520-025-03309-9.
38. Smati S, Boureau AS, Gourdy P, Guyomarch B, Annweiller C, Briet C, Cervantes N, Decker L, Delabrière I, **Guyonnet S**, Joliveau M, Litke R, Morcel P, Paccalin M, Penfornis A, Saulnier PJ, Hadjadj S, Cariou B. CGM-based metrics and mortality in older adults living with type 2 diabetes on insulin therapy: a secondary analysis of the HYPOAGE study. Diabetes Metab. 2026.52(4):101775. doi: 10.1016/j.diabet.2026.101775.
39. Stambler I, Tietz-Latza A, Schumacher B, Geiger H, Morrison H, Tüscher O, Fuellen G, Meisel R, Simm A, Pfeiffer A, Steinhage A, Popa-Wagner A, Wagner W, Cornely O, Krause M, Mitrou G, Kyriazis M, Scheibye-Knudsen M, Rattan S, Siow R, Weinkove D, Bhattacharjee S, Coeurnelle D, Invidia N, Marino N, Illario M, Caruso C, Tasciotti E, Schena F, Cesaroni F, De Rosa S, Neri F, Bulavin D, Rowell J, **Vellas B**, Debonneuil E, Lens-Pechakova L, Cordeiro JL, Díaz-Rubio E, Cordón Muro M, Marín M, Santana Gil C, Guillen S, Corella D, Barata P, Pilar Rauter A, Sousa M, Petersson L, Ulfhake B, Pīrāgs V, Kistkins S, Sjundjukovs E, Bliznuks D, Valius L, Valdonė Alšauskė S, Arredondo MT, Postula M, Berkovics I, Kaminski K, Santuccione Chadha A, Bischof E, Puiatti A, Prodan R, Blănculescu I, Frasineanu L, Sandu AA, Georgieva M, Marchev A Sr, Marchev A Jr, Tchernev A, Lipovšek M, Horváth D, Sourij H, Vankova H, Visser M, Matuła K, Lushchak O, Dikhtiarenko Z, Kebede A, Sandic-Spaho R, Adams M, Gonos ES. The need to increase support for healthy ageing and longevity research in the EU by establishing a Coordination and Support Programme on Healthy Ageing and Longevity. Mech Ageing Dev. 2026. 231:112187. doi: 10.1016/j.mad.2026.112187. Epub ahead of print.
40. Strumia M, Bongard V, Thuriot S, **Cestac P**, Sallerin B, Lemaitre JM, Furman D, **Guyonnet S, Vellas B, Andrieu S, Rouch L**; I.H.U. HealthAge INSPIRE/Open Science group (**Steinmeyer Z, Piau A, Ousset PJ, Abellan Van Kan G, Angioni D, Rolland Y, de Souto Barreto P, Cantet C, Coley N** collaborators). Bidirectional associations between biological aging, cardiovascular health, and cardiovascular risk: findings from the INSPIRE-T lifespan cohort. Geroscience. 2026. doi: 10.1007/s11357-026-02251-6. Epub ahead of print.
41. Tagliafico L, Canevelli M, **Barreto PS**, Cesari M, Ferrucci L, **Vellas B, Rolland Y**; ICFSR Task Force. Insights on geroscience pre-clinical and clinical trials to promote healthy aging from the Intrinsic Capacity, Frailty and Sarcopenia Research Task Force 2025. J Frailty Aging. 2026. 15(2):100147. doi: 10.1016/j.tjfa.2026.100147.
42. Turesson A, Koochek A, Nydahl M, Lemaitre JM, Bensadoun P, Martinez LO, Guyonnet S, **Rolland Y, Vellas B, De Souto Barreto P**; IHU HealthAge INSPIRE/Open Science group (**Steinmeyer Z, Piau A, Ousset PJ, Abellan Van Kan G, Angioni D, Cantet C, Coley N** collaborators). The associations between biological markers of aging and appetite loss across adulthood: retrospective case-

control data from the INSPIRE-T study. Geroscience. 2026.48(1):859-870. doi: 10.1007/s11357-025-01691-w.

43. Valenzuela PL, Sánchez-Sánchez JL, Bensadoun P, Lemaître JM, Furman D, **Vellas B, Sourdet S, de Souto Barreto P**. Cross-sectional and longitudinal associations of an inflammatory aging clock with intrinsic capacity and functional ability in older adults with physical and cognitive impairments: the COGFRAIL cohort. J Gerontol A Biol Sci Med Sci. 2026.81(6):glag106. doi: 10.1093/gerona/glag106.
44. van der Veere PJ, van Harten AC, van Maurik IS, Teunissen CE, Barkhof F, Vos SJB, Froelich L, Kornhuber J, Wiltfang J, Maier W, Peters O, Rüther E, Frisoni GB, Spiru L, Freund-Levi Y, Wallin ÅK, Hampel H, Tsolaki M, Kłoszewska I, Mecocci P, **Vellas B**, Lovestone S, Galluzzi S, Herukka SK, Santana I, Baldeiras I, de Mendonca A, Silva D, Chetelat G, Poisnel G, Visser PJ, Johnson SC, Stormrud E, Hansson O, Palmqvist S, Piñol-Ripoll G; Alzheimer's Disease Neuroimaging Initiative; Berkhof J, van der Flier WM. Revising the ABIDE MCI to dementia prediction model for automated cerebrospinal fluid assays. Alzheimers Dement. 2026.22(2):e71192. doi: 10.1002/alz.71192.
45. **Vellas B**. Healthy longevity, intrinsic capacity, geroscience and Alzheimer's disease prevention. J Prev Alzheimers Dis. 2026. 13(5):100570. doi: 10.1016/j.tjpad.2026.100570.
46. **Vellas B**. Implementing a nationwide healthy longevity program for older adults. Nat Aging. 2026.6(3):467-468. doi: 10.1038/s43587-026-01080-8.
47. Villalobos Dintrans P, **González-Bautista E**, Awuviry-Newton K, López-Ortega M. Long-Term Care as a Global Challenge: The Role of the World Health Organization. J Am Med Dir Assoc. 2026.27(4):106119. doi: 10.1016/j.jamda.2026.106119.
48. Wei X, Tan F, Shao W, Zhang J, Zhao Y, Zhang Y, Michel JP, Gong E, **de Souto Barreto P**, Shao R. Independent and joint associations of psychological resilience and social support with cognitive impairment among middle-aged and older Chinese adults. Aging Clin Exp Res. 2026. doi: 10.1007/s40520-026-03348-w. Epub ahead of print.