Publications

Scopus h-index: 13, First author FWCI: 2.522, Co-author FWCI: 2.729 (as of 7 Jan 2025)

Most representative publications (* Corresponding author, † Joint contribution)

1. **Luo S***, Zheng Ming-Hua, Wong Vincent WS, Au Yeung SL. Drug target Mendelian randomization applied to metabolic dysfunction-associated steatotic liver disease. Promises and Challenges. *eGastroenterology* 2024;2(4):e100114.

2. Wong THT, Mo JMY, Zhou M, Zhao J, Schooling CM, He B, **Luo S***, Au Yeung SL. A two-sample Mendelian randomization study explores metabolic profiling of different glycemic traits. *Communications Biology*. 2024;7(1):293. [IF (2023): 5.2, Biology: Ranked 13/109]

3. **Luo S**, Lam HS, Chan YH, Tang CSM, He B, Kwok MK, Leung GM, Schooling CM, Au Yeung SL. Assessing the safety of lipid-modifying medications amongst Chinese adolescents: a drug-target Mendelian randomization study. *BMC Medicine*. 2023 Oct 31;21(1):410. [IF (2023): 7.0, Medicine, General & Internal: Ranked 23/325]

4. **Luo S***, Wong ICK, Chui CSL, Zheng J, Huang Y, Schooling CM, Au Yeung SL. Effects of putative metformin targets on phenotypic age and leukocyte telomere length: A mendelian randomisation study using data from the UK Biobank. *Lancet Healthy Longevity*. 2023 Jul;4(7):e337-e344. [IF (2023): 13.4, Geriatrics & Gerontology: Ranked 2/74]

5. **Luo S**, Liang Y, Wong THT, Schooling CM, Au Yeung SL. Identifying factors contributing to increased susceptibility to COVID-19 risk: a systematic review of Mendelian randomization studies*. International Journal of Epidemiology*. 2022 Aug 10;51(4):1088-1105. [IF (2022): 7.7, Public, Environment & Occupational Health: Ranked 19/207]

6. **Luo S**, Au Yeung SL, Schooling CM. Assessing the linear and non-linear association of HbA1c with cardiovascular disease: a Mendelian randomisation study. *Diabetologia*. 2021 Nov;64(11):2502-10. [IF (2021): 10.5, Endocrinology & Metabolism: Ranked 11/146]

7. **Luo S***, Clarke SLN, Ramanan AV, Thompson S, Langefeld CD, Marion MC, Grom AA, Schooling CM, Gaunt TR, Au Yeung SL, Zheng J. Platelet glycoprotein Ib alpha chain as a putative therapeutic target for juvenile idiopathic arthritis: a Mendelian randomization study. *Arthritis & Rheumatology*. 2021 Apr; 73(4): 693-701. [IF (2021): 15.5, Rheumatology: Ranked 4/34]

8. **Luo S**, Schooling CM, Wong ICK, Au Yeung SL. Evaluating the impact of AMPK activation, a target of metformin on risk of cardiovascular diseases and cancer in the UK Biobank: a Mendelian randomization study. *Diabetologia*. 2020 Nov;63(11):2349-58. [IF (2020): 10.1, Endocrinology & Metabolism: Ranked 9/146]

9. **Luo S**, Au Yeung SL, Zuber V, Burgess S, Schooling CM. The impact of genetically predicted red blood cell traits on venous thromboembolism, multivariable Mendelian randomization study using UK Biobank. *Journal of the American Heart Association*. 2020 Jul 21;9(14):e016771. [IF (2020): 5.5, Cardiac & Cardiovascular Systems: Ranked 35/142]

10. **Luo S**, Au Yeung SL, Zhao J, Burgess S, Schooling CM. Association of genetically predicted testosterone with thromboembolism, heart failure, and myocardial infarction: mendelian

randomization study in UK Biobank. *BMJ*. 2019 Mar 6; 364: l476. (Selected as Research Output Prize in 2020). [IF (2019): 30.3, Medicine, General & Internal: Ranked 5/165]

Co-authored publications

Drug-Target Repositioning:

11. Liang Y, **Luo S**, Wan YF, Cheung CL, Gill D, Au Yueng SL. Relative effects of genetically proxied glucagon-like peptide-1 receptor agonism on muscle and fat mass: A Mendelian randomization study. Diabetes*, Obesity & Metabolism* doi: 10.1111/dom.16045 [IF (2023): 5.4, Endocrinology & Metabolism: Ranked 26/186] [In press]

12. Zheng J, Bi Y, Liu H, Zhao H, Yang Q, Ming X, Hamilton F, Mullins N, Docherty A, **Luo S**, Li M, Zhao Z, Zheng R, Wang S, Lin H, Wang T, Xu M, Xu Y, Lu J, Gaunt TR, Wang W, Smith GD, Ning G. The association of GLP1R bioactivities with the risk of self-harm behaviours: a genome-wide association meta-analysis followed by Mendelian randomization. [Under review]

13. Lyu, Y. X., Q. Fu, D. Wilczok, K. Ying, [Middle authors are ordered alphabetically by their first names] A. King, A. Antebi, A. Vojta, A. Stolzing, A. Moskalev, A. Georgievskaya, A. B. Maier, A. Olsen, A. Groth, A. K. Simon, A. Brunet, A. Jamil, A. Kulaga, A. Bhatti, B. Yaden, B. K. Pedersen, B. Schumacher, B. Djordjevic, B. Kennedy, C. Chen, C. Y. Huang, C. U. Correll, C. T. Murphy, C. Y. Ewald, D. Chen, D. R. Valenzano, D. Soldacki, D. Erritzoe, D. Meyer, D. A. Sinclair, E. N. Chini, E. C. Teeling, E. Morgen, E. Verdin, E. Vernet, E. Pinilla, E. F. Fang, E. Bischof, E. M. Mercken, F. Finger, F. Kuipers, F. W. Pun, G. Gyulveszi, G. Civiletto, G. Zmudze, G. Blander, H. A. Pincus,J. McClure, J. L. Kirkland, J. Peyer, J. N. Justice, J. Vijg, J. R. Gruhn, J. McLaughlin, J. Mannick, J. Passos, J. A. Baur, J. Betts-LaCroix, J. M. Sedivy, J. R. Speakman, J. Shlain, J. von Maltzahn, K. I. Andreasson, K. Moody, K. Palikaras, K. Fortney, L. J. Niedernhofer, L. J. Rasmussen, L. M. Veenhoff, L. Melton, L. Ferrucci, M. Quarta, M. Koval, M. Marinova, M. Hamalainen, M. Unfried, M. S. Ringel, M. Filipovic, M. Topors, N. Mitin, N. Roy, N. Pintar, N. Barzilai, P. Binetti, P. Singh, P. Kohlhaas, P. D. Robbins, P. Rubin, P. O. Fedichev, P. Kamya, P. Munoz-Canoves, R. de Cabo, R. G. A. Faragher, R. Konrad, R. Ripa, R. Mansukhani, S. Buttner, S. A. Wickstrom, S. Brunemeier, S. Jakimov, S. Luo, S. Rosenzweig-Lipson, S. Y. Tsai, S. Dimmeler, T. A. Rando, T. R. Peterson, T. Woods, T. Wyss-Coray, T. Finkel, T. Strauss, V. N. Gladyshev, V. D. Longo, V. B. Dwaraka, V. Gorbunova, V. A. Acosta-Rodriguez, V. Sorrentino, V. Sebastiano, W. Li, Y. Suh, A. Zhavoronkov, M. Scheibye-Knudsen and D. Bakula (2024). Longevity biotechnology: bridging AI, biomarkers, geroscience and clinical applications for healthy longevity. *Aging (Albany NY)* 16. [IF (2023): 3.9, Geriatrics & Gerontology: Ranked 24/74]

14. Chen Z, Wu X, Yang Q, Zhao H, Ying H, Liu H, Wang C, Zheng R, Lin H, Wang S, Li M, Wang T, Zhao Z, Xu M, Chen Y, Xu Y, Lu J, Ning G, Wang W, **Luo S**, Au Yeung SL, Bi Y, Zheng J. The effect of SGLT2 inhibition on brain-related phenotypes and aging: a drug target Mendelian randomization study. *Journal of Clinical Endocrinology & Metabolism* 2024. [IF (2023): 5.0, Endocrinology & Metabolism: Ranked 30/186]

15. Zheng J, Lu J, Qi J, Yang Q, Zhao H, Liu H, Chen Z, Huang L, Ye Y, Xu M, Xu Y, Wang T, Li M, Zhao Z, Zheng R, Wang S, Lin H, Chui CSL, Au Yeung SL, **Luo S**, Dimopoulou O, Dixon P, Harrison S, Liu Y, Robinson J, Yarmolinsky J, Haycock P, Yuan J, Cui B, Lewis S, Gaunt TR, Smith GD, Guang N, Martin RM, Cui B, Wang W, B Y. The effect of SGLT2 inhibition on prostate cancer: Mendelian randomization and observational analysis using electronic healthcare and cohort data. *Cell Reports Medicine*. 2024;5:101688. [IF (2023):11.7, Medicine, Research & Experimental: Ranked 10/189]

16. Zheng J, Xu M, Yang Q, Hu C, Walker V, Lu J, Wang J, Liu R, Xu Y, Wang T, Zhao Z, Yuan J, Burgess S, Au Yeung SL, **Luo S**, Anderson EL, Holmes MV, Smith GD, Ning G, Wang W, Gaunt TR, Bi Y. Efficacy of metformin targets on cardiometabolic health in the general population and non-diabetic individuals: a Mendelian randomization study. *EBioMedicine*. 2023 Oct;96:104803. [IF (2023): 9.7, Medicine, Research & Experimental: Ranked 12/189]

17. Au Yeung SL, Wong THT, He B, **Luo S**, Kwok KO. Does ACE2 explain the detrimental role of exposures related to COVID-19 risk: A Mendelian randomization investigation. *Journal of Medical Virology*. 2023 Jan;95(1):e28205. [IF (2023): 6.8, Virology: Ranked 4/41]

18. Zheng J, Xu M, Walker V, Yuan J, Korologou-Linden R, Robinson J, Huang P, Burgess S, Au Yeung SL, **Luo S**, Holmes MV, Smith GD, Ning G, Wang W, Gaunt TR, Bi Y. Evaluating the efficacy and mechanism of metformin targets on reducing Alzheimer's disease risk in the general population: a Mendelian randomization study. *Diabetologia*. 2022 Oct;65(10):1664-1675. [IF (2022): 8.2, Endocrinology & Metabolism: Ranked 13/145]

19. Zheng J, Haberland V, Baird D, Walker V, Haycock P, Hurle MR, Gutteridge A, Erola P, Liu Y, **Luo S**, Robinson J, Richardson TG, Staley JR, Elsworth B, Burgess S, Sun BB, Danesh J, Runz H, Maranville JC, Martin HM, Yarmolinsky J, Laurin C, Holmes MV, Liu JZ, Estrada K, Santos R, McCarthy L, Waterworth D, Nelson MR, Smith GD, Butterworth AS, Hemani G, Scott RA, Gaunt TR. Phenome-wide Mendelian randomization mapping the influence of the plasma proteome on complex diseases. *Nature Genetics*. 2020 Oct; 52(10):1122-31. [IF (2020): 38.3, Genetics & Heredity: Ranked 2/176]

20. Au Yeung SL, **Luo S**, Schooling CM. The impact of GDF-15, a biomarker for metformin, on the risk of coronary artery disease, breast and colorectal cancer, and type 2 diabetes and metabolic traits: a Mendelian randomisation study. *Diabetologia*. 2019 Sept. 62(9): p. 1638-46 [IF (2019): 7.5, Endocrinology & Metabolism: Ranked 10/143]

Elucidate Etiology of Diseases:

21. Chen S, **Luo S**, He B, Lam HS, Li AM, Tang SM, Kwok MK, Leung GM, Schooling CM, Au Yeung SL. East Asian metabolomic signatures of genetic liability to type 2 diabetes: Study in "Children of 1997" birth cohort. [Under review]

22. He B, Lam HS, Qiu X, **Luo S**, Slob EAW, Au Yeung SL. Association and mediation pathways of maternal hyperglycemia and liability to gestational diabetes with neonatal outcomes: a two-sample Mendelian Randomization study. *Diabetes, Obesity & Metabolism* doi: 10.1111/dom.16045 [IF (2023): 5.4, Endocrinology & Metabolism: Ranked 26/186]

23. Wong THT, **Luo S**, Au Yeung SL, Louie JCY. Association between coffee consumption and metabolic syndrome: a cross-sectional and Mendelian randomization study. *Journal of Diabetes*. 2024;16(10):e70004. [IF (2023): 3.0, Endocrinology & Metabolism: Ranked 88/186]

24. Zheng L†, Liao W†, **Luo S**, Li B, Liu D, Yun Q, Zhao Z, Zhao J, Rong J, Gong Z, Sha F, Tang J. Association between alcohol consumption and incidence of dementia in current drinkers: linear and non-linear Mendelian randomization analysis. *eClinicalMedicine*, 2024.76: p. 102810. [IF (2023): 9.6, Medicine, General & Internal: Ranked 12/325]

25. Liang Y, **Luo S**, Bell S, Mo JMY, He B, Zhou Y, Bai X, Au Yeung SL. Do iron homeostasis biomarkers mediate the associations of liability to type 2 diabetes and glycemic traits in liver steatosis and cirrhosis: a two-step Mendelian randomization study. *BMC Medicine*. 2024;22(1):270. [IF (2023): 7.0, Medicine, General & Internal: Ranked 23/325]

26. Liang Y, **Luo S**, Wong THT, He B, Schooling CM, Au Yeung SL. Association of iron homeostasis biomarkers in type 2 diabetes and glycemic traits: a directional two-sample Mendelian randomization study*. International Journal of Epidemiology*. 2023 Dec 25;52(6):1914-1925. [IF (2023): 6.4, Public, Environment & Occupational Health: Ranked 22/403]

27. Au Yeung SL, **Luo S**, Schooling CM. The impact of glycated hemoglobin on risk of hypertension: a Mendelian randomization study using UK Biobank. *Journal of Hypertension*. 2020 Jan;38(1):38-44. [IF (2020): 4.8, Peripheral Vascular Disease: Ranked 17/65]

28. Zhao J, **Luo S**, and Schooling CM. Sex-specific Mendelian randomization study of genetically predicted insulin and cardiovascular events in the UK Biobank. *Communications Biology*. 2019 Sept 5; 2:332. [IF (2019): 4.2; Biology: Ranked 18/93]

29. Schooling CM, **Luo S**, Johnson G. ADAMTS-13 activity and ischemic heart disease: a Mendelian randomization study. *Journal of Thrombosis and Haemostasis*. 2018 Nov;16(11):2270-5. [IF (2018): 4.7; Peripheral Vascular Disease: Ranked 10/65]

30. Schooling CM†, **Luo S**†, Au Yeung SL, Thompson DJ, Karthikeyan S, Bolton TR, Mason AM, Ingelsson E, Burgess S. Genetic predictors of testosterone and their associations with cardiovascular disease and risk factors: A Mendelian randomization investigation. *International Journal of Cardiology*. 2018 Sept 15; 267:171-76 [IF (2018): 3.5; Cardiac & Cardiovascular Systems: Ranked 48/136]

31. Au Yeung SL, **Luo S**, Schooling CM. The Impact of Glycated Hemoglobin (HbA1c) on Cardiovascular Disease Risk: A Mendelian Randomization Study Using UK Biobank*. Diabetes Care*. 2018 Sept;41(9):1991-97. [IF (2018): 15.3, Endocrinology & Metabolism: Ranked 4/145]

Gene-Environment Interaction:

32. Wang M, Collings PJ, Day F, Ong K, Brage Soren, Sharp SJ, Jang H, Suh Siyeon, **Luo S**, Au Yeung SL, Kim Y. Genetic susceptibility to type 2 diabetes, television viewing, and atherosclerotic cardiovascular disease risk. *Journal of American Heart Association*. [In Press]

33. Wang M, Collings PJ, Jang H, Chen Z, Shi Q, Ho, HS, **Luo S**, Au Yeung SL, Kim Y. Prospective associations between muscle strength and genetic susceptibility to type 2 diabetes with incident type 2 diabetes: a UK Biobank study. *BMC Medicine* [IF (2023): 7.1; Medicine, General & Internal: Rank 20/333] [In Press]

34. Wang M, Collings PJ, Jang H, Chen Z, **Luo S**, Au Yeung SL, Sharp SJ, Brage S, Kim Y. Prospective associations of genetic susceptibility to high blood pressure and muscle strength with incident cardiovascular disease outcomes. *Journal of Hypertension.* 2024. [IF (2023): 3.3, Peripheral Vascular Disease: Ranked: 24/96]

35. Kim Y, Wang M, Sharp SJ, Au Yeung SL, **Luo S**, Jang H, Jiesisibieke ZL, Shi Q, Chen Z, Brage S. Incidence of dementia and Alzheimer's Disease, genetic susceptibility and grip strength among older adults. *Journals of Gerontology Series A - Biological Sciences And Medical Sciences*. 2024 Mar 1;79(3):glad224. [IF (2023): 4.3; Gerontology: Ranked 7/47]

36. Kim Y, Jang H, Wang M, Strain T, Shi Q, Sharp SJ, Au Yeung SL, **Luo S**, Griffin S, Wareham NJ, Wijndaele K, Barge S. Replacing device-measured sedentary time with physical activity is associated with lower risk of coronary heart disease regardless of genetic risk. *Journal of Internal Medicine*. 2024 Jan;295(1):38-50. [IF (2023): 9.0, Medicine, General & Internal: Ranked 16/325]

37. Wang M, Au Yeung SL, **Luo S**, Jang H, Ho HS, Sharp SJ, Wijndaele K, Brage S, Wareham NJ, Kim Y. Adherence to a healthy lifestyle, genetic susceptibility to abdominal obesity, cardiometabolic risk markers, and risk of coronary heart disease. *American Journal of Clinical Nutrition*. 2023 Nov;118(5):911-920. [IF (2023): 6.5, Nutrition & Dietetics: Ranked 11/114]

38. Jiesisibieke ZL, Panter J, Wang M, Au Yeung SL, **Luo S**, Jang H, Wan EYF, Brage S, Kim Y. Mode of transport, genetic susceptibility, and incidence of coronary heart disease. *International Journal of Behavioral Nutrition and Physical Activity.* 2023 July 4;20(1):79. [IF (2023): 5.6, Physiology: Ranked 4/85]

39. Wang M, Brage S, Sharp SJ, **Luo S**, Au Yeung SL, Kim Y. Associations of Genetic Susceptibility and Healthy Lifestyle with Incidence of Coronary Heart Disease and Stroke in Individuals with Hypertension. *European Journal of Preventive Cardiology*. 2022 Jul 5:zwac135. [IF (2022): 8.3, Cardiac & Cardiovascular systems: Ranked 21/143]

40. Kim Y, Au Yeung SL, Sharp SJ, Wang M, Jang H, **Luo S**, Brage S, Wijndaele K. Genetic susceptibility, screen-based sedentary activities and incidence of coronary heart disease. *BMC Medicine*. 2022 May 24;20(1):188. [IF (2022): 9.3, Medicine, General &Internal: Ranked 19/169]

41. Kim Y, Hwang S, Sharp SJ, **Luo S**, Au Yeung, SL, Teerlink CC. Genetic risk, muscle strength and incident stroke: findings from the UK Biobank study. *Mayo Clinic Proceedings*. 2021 Jul; 96(7): 1746-1757. [IF (2021): 12.2, Medicine, General & Internal: Ranked 18/172]

Seminar paper/Commentary/e-letter:

42. Au Yeung SL, **Luo S**, Iwagami M, et al. Introduction to Mendelian randomization. *Annals of Clinical Epidemiology* 2025;7(1):27-37. doi: 10.37737/ace.25004

43. Au Yeung SL, **Luo S**, CM Schooling. Association of low testosterone in poor health: Correlation or causation? *Annals of Internal Medicine*. 2024 June. [IF (2023): 19.6, Medicine, General & Internal: Ranked 8/325]

44. Au Yeung SL, **Luo S**, Kwok KO. Actionable targets to reduce COVID-19 severity. *Nature Metabolism.* 2023 Feb;5(2):195-96. [IF (2023): 18.9, Endocrinology & Metabolism: Ranked 5/186]

45. Au Yeung SL, **Luo S**, Kwok KO. Triangulating evidence from different designs in the etiologic role of Epstein-Barr virus infection in multiple sclerosis risk. *Science*. 2022 Jan. [IF (2022): 56.9, Multidisciplinary Sciences: Ranked 2/73]