CURRICULUM VITAE

Guan Wang, BSc, MRes, PhD
Research Fellow, Collaborating Centre of Sports Medicine at the University of Brighton, Eastbourne, United Kingdom
ORCID ID: https://orcid.org/0000-0002-7432-7933

Education

Aug 2013	DPhil in Integrated Biology, University of Glasgow, Glasgow, Scotland
Sep 2007	MRes in Biomedical Sciences, University of Glasgow, Glasgow, Scotland
Jun 2006	BSc in Biological Sciences, Shandong Normal University, Jinan, Shandong, China

Publications (selected publications covering original research, reviews and book chapters)

Original Research

1. **Wang G**, Durussel J, Shurlock J, Mooses M, Fuku N, Murray A, Yee B, Keenan A, McClure JD, Sottas PE, Pitsiladis, YP. (2017) Validation of whole-blood transcriptome signature during microdose recombinant human erythropoietin (rHuEpo) administration. *BMC Genomics*, 18(Suppl 8):817. PMID:29143667.

2. Willems SM, Wright DJ, Day FR, Trajanoska K, Joshi PK, Morris JA, Matteini AM, Garton FC, Grarup N, Oskolkov N, Thalamuthu A, Mangino M, Liu J, Demirkan A, Lek M, Xu L, **Wang G**, Oldmeadow C, Gaulton KJ, Lotta LA, Miyamoto-Mikami E, Rivas MA, White T, Loh PR, Aadahl M, Amin N, Attia JR, Austin K, Benyamin B, Brage S, Cheng YC, Cieszczyk P, Derave W, Eriksson KF, Eynon N, Linneberg A, Lucia, Massidda M, Mitchell BD, Miyachi M, Murakami H, Padmanabhan S, Pandey A, Papadimitriou I, Rajpal D, Sale C, Schnurr TM, Sessa F, Shrine N, Tobin MD, Varley I, Wain LV, Wray NR, Lindgren CM, MacArthur DG, Waterworth D, McCarthy MI, Pedersen O, Khaw KT, Kiel DP, GEFOS Anytype of Fracture Consortium, Pitsiladis P, Fuku N, Franks PW, North KN, van Duijn CM, Mather KA, Hansen T, Hansson O, Spector T, Murabito JM, Richards JB, Rivadeneira F, Langenberg C, Perry JRB, Wareham NJ, Scott RA. (2017) Large-scale GWAS identifies multiple loci associated with hand grip strength and provides new insights into the biology of muscular fitness. *Nature Communications*, 8:16015. PMID:29313844.

3. Rankinen T, Fuku N, Wolfarth B, **Wang G**, Sarzynski MA, Alexeev DG, Ahmetov II, Boulay MR, Cieszczyk P, Eynon N, Filipenko ML, Garton FC, Generozov EV, Govorun VM, Houweling PG, Kawahara T, Kostryukova ES, Kulemin NA, Larin AK, Maciejewska-Karłowska A, Miyachi M, Muniesa CA, Murakami H, Ospanova EA, Padmanabhan S, Pavlenko AV, Pyankova ON, Santiago C, Sawczuk M, Scott RA, Uyba VV, Yvert T, Perusse L, Ghosh S, Rauramaa R, North KN, Lucia A, Pitsiladis Y, Bouchard C. (2016) No evidence of a common DNA variant profile specific to world class endurance athletes. *PLoS One*, 11(1):e0147330. PMID:26824906.

4. **Wang G**, Mikami E, Chiu LL, de Perini A., Deason M, Fuku N, Miyachi M, Kaneoka K, Murakami H, Tanaka M, Hsieh LL, Hsieh SS, Caporossi D, Pigozzi F,Hilley A, Lee R, Galloway SD, Gulbin J, Rogozkin VA, Ahmetov II, Yang N, North KN, Ploutarhos S, Montgomery HE, Bailey ME, Pitsiladis YP. (2013) Association analysis of ACE and ACTN3 in elite Caucasian and East Asian Swimmers. *Medicine and Science in Sports and Exercise*, 45(5):892-900. PMID:23190598.

5. Koni AC, Scott RA, **Wang G**, Bailey ME, Peplies J, Bammann K, Pitsiladis YP; IDEFICS Consortium. (2011) DNA yield and quality of saliva samples and suitability for large scale epidemiological studies in children. *International Journal of Obesity*, 35(Suppl 1): S113-S118. PMID:21483410.

6. Lagou V, Scott RA, Manios Y, Chen TL, **Wang G**, Grammatikaki E, Kortsalioudaki C, Liarigkovinos T, Moschonis G, Roma-Giannikou E, Pitsiladis YP. (2008) Impact of peroxisome proliferatoractivated receptor gamma and delta on adiposity in preschoolers. *Obesity*, 16(4): 913-918. PMID:18379566.

Reviews

7. Sutehall S, Muniz-Pardos B, Lima G, **Wang G**, Malinsky FR, Bosch A, Zelenkova I, Tanisawa K, Pitsiladis Y. (2019) Altitude training and recombinant human erythropoietin: considerations for doping detection. *Current Sports Medicine Reports*, 18(4):97-104. PMID:30969231.

8. Simon P, Neuberger EWI, **Wang G**, Pitsiladis YP. (2018) Anti-doping science: important lessons from the medical sciences. *Current Sports Medicine Reports*, 17(10):326-331. PMID:30300193.

9. Webborn N, Williams A, McNamee M, Bouchard C, Pitsiladis Y, Ahmetov I, Ashley E, Byrne N, Camporesi S, Collins M, Dijkstra P, Eynon N, Fuku N, Garton FC, Hoppe N, Holm S, Kaye J, Klissouras V, Lucia A, Maase K, Moran C, North KN, Pigozzi F, **Wang G**. (2015) Direct-to-consumer genetic testing for predicting sports performance and talent identification: Consensus statement. *British Journal of Sports Medicine*, 49(23):1486-91. PMID:26582191.

10. Pitsiladis Y, **Wang G**, Wolfarth B, Scott R, Fuku N, Mikami E, He Z, Fiuza-Luces C, Eynon N, Lucia A. (2013) Genomics of elite sporting performance: what little we know and necessary advances. *British Journal of Sports Medicine*, 47(9):550-555. Erratum in British Journal of Sports Medicine, 47(10):656. PMID:23632745.

11. Pitsiladis YP, and **Wang G**. (2011) Necessary advances in exercise genomics and likely pitfalls. *Journal of Applied Physiology (1985)*, 110 (5): 1150-1151. PMID:21350024.

Book Chapters

12. Moran C, Williams AG, **Wang G**. (2019) Using Elite Athletes as a Model for Genetic Research. In The Routledge Handbook of Sport and Exercise Systems Genetics. Eds J. T. Lightfoot, M. Hubal and S. M. Roth. ISBN-10:1138504858 | ISBN-13:978-1138504851.

13. **Wang G**, Karanikolou A, Verdouka I, Friedmann T, Pitsiladis Y. (2017) Next generation "omics" approaches in the "fight" against blood doping. In Acute Topics in Anti-Doping. Eds O. Rabin and Y. Pitsiladis, 119-128. S. Karger AG, Basel. ISBN:978-3-318-06043-0. PMID:28571016.

14. **Wang G.** (2014) Chapter 2 - Basic Genetics: The Cell, Mitosis and Meiosis, and Mendelian Laws. In Handbook of Pharmacogenomics and Stratified Medicine, edited by Sandosh Padmanabhan, 29-40. Academic Press, San Diego. ISBN-10: 0123868823 | ISBN-13: 978-0123868824.

Presentations (invited speaker)

1. The 21st European Congress of Endocrinology, Lyon, France, 21/05/19. *Omics to fight doping.*
2. The 35th FIMS World Sports Medicine Congress, Rio de Janeiro, Brazil, 14/09/18. *Genetics and sports: past, present and future.*
3. The 34th World Congress of Sports Medicine, Ljubljana, Slovenia, 01/10/16. *Discovery genome-wide association studies of elite sprint performance with imputation and replication.*
4. Genomics, Genetics and Exercise Biology – a celebratory symposium, Santorini, Greece, 15/05/2015. *The PowerGene Study: Discovery and Replication.*

Research Grants

1. World Anti-Doping Agency (WADA). Implications of RNA-seq in the detection of anabolic steroid use and the harnessing of the molecular mechanism(s) of muscle memory. $244,277. 2017-2019. Co-Investigator.
2. The Natural Environment Research Council (NERC) Strategic Environmental Science Capital Call 2014. Polyomics Centre and Biobank for Aquatic Toxicity Research. £383,376.95. 2016-2018. Co-Investigator.
3. University of Brighton, Seed Grant. The harnessing of the molecular mechanism(s) of muscle memory (pilot). £10,000. 2016-2017. Principal Investigator.