

Curriculum Vitae

Colleen Deane, Ph.D., AFHEA

University of Southampton, UK

Employment:

2022 - Current	Lecturer in Muscle Cell Biology University of Southampton
2019 - 2022	MRC Skills Development Fellowship, University of Exeter Fellowship Title: Are mechanisms of skeletal muscle atrophy simply the reverse of muscle hypertrophy across age? A multi-omics approach.
2018 - 2019	Post-doctoral Research Fellow, University of Exeter Project Title: Establishing molecular mechanisms of and countermeasures to muscle decline in space.
2016-2018	Post-doctoral Research Fellow, University of Exeter Project Title: Does NAD ⁺ precursor supplementation rejuvenate skeletal muscle mitochondrial function and physical capacity?
2015-2016	Research Assistant, University of Birmingham

Education:

2012-2017	Ph.D. Metabolic and Molecular Muscle Physiology Bournemouth University	
2011-2012	M.Sc. Physical Activity, Nutrition & Health Promotion University of Bedfordshire	Distinction
2008-2011	B.Sc. Sport and Exercise Science University of Bedfordshire	First Class (Hons)

Selected Funding:

Summary: >£485,000 research, scientific outreach and dissemination funding

2024: The Physiological Society, Research and Knowledge Exchange, £9,987.

2024: The Great Britain Sakakawa Foundation Butterfield Award, £10,000, Principal Investigator

2023: BRC Ph.D. Studentship, £75,000, Co-supervisor

2023: Wessex Medical Research Innovation Award, £19,600, Principal Investigator

2022: MyAge (funded by BBSRC, MRC), Proof-of-concept, £9,100; Principal Investigator

2022: MyAge (funded by BBSRC, MRC), Pump Prime, £750; Principal Investigator

2019: MRC, Skills Development Fellowship - £416,801; Principal Investigator

2019: Wellcome Trust, Pre-Seed Funding - £4,980; Principal Investigator

Selected Awards/Prize's:

2023: The Physiological Society, R Jean Banister Prize (Lecture Series)

2022: RANK Prize, Travel Grant - £8921; Principal Investigator

2022: *Nutrients*, Young Investigator Award

2015: Bournemouth University, International Laboratory Visit Funds - £500; Principal Investigator

Selected Publications:

Summary: 41 peer reviewed articles, 2 book chapters, >1000 citations.

*denotes joint authorship

Deane, C. S., Piasecki, M. & Atherton, P. J. (2024) 'Skeletal muscle immobilisation-induced atrophy: mechanistic insights from human studies', *Clin Sci*, 138(12):741-756.

Baumann, C. W*, **Deane, C. S***, Etheridge, T., Szewczyk, N. J., Willis, C. R. G. & Lowe, D. A. (2023) 'Adaptability to Eccentric Exercise Training is Diminished with Age in Female Mice', *JAP*, 135(5): 1135-1145.

Scott, A., Willis, C. R. G., Muratani, M., Higashitani, A., Etheridge, T., Szewczyk, N. J. & **Deane, C.S.** (2023) 'Caenorhabditis elegans in microgravity: an omics perspective', *iScience*, 26(7): 107189.

Fernandez-Gonzalo, R., Willis, C. R. G., Etheridge, T. & **Deane, C. S.** (2022) 'RNA-Sequencing muscle plasticity to resistance exercise training and disuse in youth and older age', *Physiologia*, 2(4):164-179.

Deane, C. S.*, Phillips, B. E*, Willis, C. R. G*, Wilkinson, D. J., Smith, K., Higashitana, N. Williams, J. P., Szewczyk, N. J., Atherton, P. J., Higashitana, A. & Etheridge, T. (2022) 'Proteomic features of skeletal muscle adaptation to resistance exercise training as a function of age', *GeroScience*, epub ahead of print.

Deane, C. S., Borg, J., Cahill, T., Carnero-Diaz, E., Etheridge, T., Hardiman, G., Leys, N., Madrigal, P., Manzano, A., Mastroleo, F., Medina, F. J., Fernandez-Rojo, M. A., Siew, K., Szewczyk, N. J., Villacampa, A., Walsh, S. B., Weging, S., Bezdan, D., Giacomello, S., da Silveira, W. A. & Herranz, R. (2022) 'Space omics research in Europe: contributions, geographical distribution and ESA member state funding schemes', *iScience*, 25(3):103920.

Willis, C. R. G., **Deane, C. S.**, Ames, R., Bass, J. J., Wilkinson, D. J., Smith, K., Phillips, B. E., Szewczyk, N. J., Atherton, P. J. & Etheridge, T. (2021) 'Transcriptomic adaptation during early skeletal muscle habituation to eccentric or concentric exercise training' *Sci Reports*, 11(1):23930.

Deane, C. S.*, Willis, C. R. G*, Phillips, B. E., Atherton, P. J., Harries, L. W., Ames, R. M., Szewczyk, N. J. & Etheridge, T., (2021) 'Transcriptomic meta-analysis of disuse muscle atrophy versus resistance exercise-induced hypertrophy in young and older humans', *Journal of Cachexia, Sarcopenia and Muscle*, 12(3):629-645.

Willis, C. R. G., Ames, R., **Deane, C. S.**, Phillips, B. E., Boereboom, C., Abdulla, H., Bukhari, S. S. I., Lund, J. N., Williams, J. P., Wilkinson, D. J., Smith, K., Kadi, F., Szewczyk, N. J., Atherton, P. J.* & Etheridge, T*. (2020) 'Network analysis of human muscle adaptation to aging and contraction', *Aging*, 12(1):740-755.

Deane, C. S.*, Ames, R. M*, Phillips, B. E., Weedon, M. N., Willis, C. R. G., Boereboom, C., Abdulla, H., Bukhari, S. S. I., Lund, J. N., Williams, J. P., Wilkinson, D. J., Smith, K., Gallagher, I. J., Kadi, F., Szewczyk, N. J., Atherton, P. J.* & Etheridge, T*. (2019) 'The acute transcriptional response to resistance exercise: impact of age and contraction mode', *Aging*, 11(7):2111-2126.

Selected Invited Talks:

2024	Evidenced Based Perioperative Medicine 2024, London, UK.
2024	Dietary Manipulations for Health and in the Prevention and Management of Disease, Manchester, UK.
2023	FENS, Belgrade, Serbia
2023	European Geriatric Medicine Society (EuGMS) 2023, Helsinki, Finland
2023	Human Muscle Ageing Conference, Liverpool, UK.
2023	British Society for Research on Ageing (BSRA) 2023, Westminster, UK
2023	Physiology 2023, Harrogate, UK.
2023	Bone Research Society, Liverpool, UK
2022	Alpro NutriWeb, Understanding Dietary Protein Quality and Intake
2022	SPRINT, Space at Southampton, Southampton, UK
2022	Japanese Summer School, Ritsumeikan University, Japan.
2022	RANK symposium on Nutrition and Ageing, RANK, Grasmere, UK.
2022	Biomedical Basis of Elite Performance, The Physiological Society, Nottingham, UK.
2019	International <i>C. elegans</i> Conference, Los Angeles, USA.
2018	International Space Station Increment 57/58 Science Symposium, teleconference.

Reviewer Activities:

Senior Editor: *Experimental Physiology*; Review Editor: *Frontiers in Physiology*

Committee/Representative Membership:

2022-Current	The Physiological Society Representative
2021-Current	GeneLab Animal Analysis Working Group (NASA)
2020-Current	Space Omics Topical Team (European Space Agency, ESA)
2018-2022	Early Career Research Network Representative, University of Exeter

Professional Memberships:

2012 – Current The Physiological Society