

Francesca Mackenzie  
Staff  
Institute for Health, Education & Society  
Faculty of Health, Science, Social Care & Education  
**Email:** F.Mackenzie@kingston.ac.uk

## University web profile link

Dr Francesca Mackenzie | Kingston University London

## Qualifications

Recognised by Advance HE as a Fellow against Descriptor 2 of the UKPSF  
1 Nov 2018 → ...

Recognised by Advance HE as an Associate Fellow against Descriptor 1 of the UKPSF  
1 Jan 2017 → ...

Doctorate  
6 May 2006 → ...

First Degree  
1 Jun 2001 → ...

## Employment

**Institute for Health, Education & Society**  
Kingston University Higher Education Corporation  
1 Aug 2025 → 31 Dec 2099

### Senior Lecturer

Staff  
Faculty of Health, Science, Social Care & Education  
1 Aug 2025 → 31 Dec 2099

### Local Ambassador

The Genetics Society  
London, United Kingdom  
1 Jan 2019 → present

## Research outputs

**Influence of physiological glucose levels on SIM-A9 microglial cell immune response**  
Bruno, L., Mackenzie, F. & Stolinski, M., 17 Jul 2023.

### **Metabolites of cannabis induce cardiac toxicity and morphological alterations in cardiac myocytes**

Merve, A. O., Sobiecka, P., Remeškevičius, V., Taylor, L., Saskoy, L., Lawton, S., Jones, B. P., Elwakeel, A., Mackenzie, F. E., Polycarpou, E., Bennett, J. & Rooney, B., 28 Feb 2022, In: International Journal of Molecular Sciences. 23, 3, 1401.

### **Online strategies for developing and delivering Enterprise activities for undergraduate Pharmacology and Life Science students**

Reid, D., Mador, M., Page, N., Morgan, A. L. B., Mackenzie, F., Stolinski, M. & Baker, A., 9 Sept 2021.

### **Supporting activities to embed creativity and innovation as an implicit part of the bioscience student experience**

Baker, A., Reid, D., Mador, M., Page, N., Mackenzie, F., Morgan, A. & Stolinski, M., 29 Jun 2021.

### **Defining a new in vitro culture system to monitor the effects of glucose on microglial metabolism**

Bruno, L., Stolinski, M. & Mackenzie, F., Apr 2021.

**The effect of video-game visual training on visual function in adults with self-reported reading difficulties**

Mikailionyte, A., Pierscionek, B., Mackenzie, F. E. & Augousti, A., 29 Mar 2021.

**Developing and delivering new online Enterprise activities for L4, L5 and L6 Life Science students**

Reid, D., Mador, M., Mackenzie, F., Morgan, A., Stolinski, M. & Baker, A., 26 Feb 2021.

**Mechanosensing and the Hippo pathway in microglia: a potential link to Alzheimer's disease pathogenesis**

Bruno, L., Karagil, S., Mahmood, A., Elbediwy, A., Stolinski, M. & Mackenzie, F. E., 2021, In: *Cells*. 10, 11, 3144.

**Dysfunctional mechanotransduction through the YAP/TAZ/Hippo pathway as a feature of chronic disease**

Cobbaut, M., Karagil, S., Bruno, L., Diaz de la Loza, M. D. C., Mackenzie, F. E., Stolinski, M. & Elbediwy, A., 8 Jan 2020, In: *Cells*. 9, 1, 151.

**Rescue of mutant rhodopsin traffic by metformin-induced AMPK activation accelerates photoreceptor degeneration**

Athanasiou, D., Aguila, M., Opefi, C. A., South, K., Bellingham, J., Bevilacqua, D., Munro, P. M., Kanuga, N., Mackenzie, F. E., Dubis, A. M., Georgiadis, A., Graca, A. B., Pearson, R. A., Ali, R. R., Sakami, S., Palczewski, K., Sherman, M. Y., Reeves, P. J. & Cheetham, M. E., 15 Jan 2017, In: *Human Molecular Genetics*. 26, 2, p. 305-319

**Macrophage-induced blood vessels guide Schwann cell-mediated regeneration of peripheral nerves**

Cattin, A. L., Burden, J. J., Van Emmenis, L., MacKenzie, F. E., Hoving, J. J. A., Garcia Calavia, N., Guo, Y., McLaughlin, M., Rosenberg, L. H., Quereda, V., Jamecna, D., Napoli, I., Parrinello, S., Enver, T., Ruhrberg, C. & Lloyd, A. C., 27 Aug 2015, In: *Cell*. 162, 5, p. 1127-1139

**Neural crest cell-derived VEGF promotes embryonic jaw extension**

Wiszniak, S., Mackenzie, F. E., Anderson, P., Kabbara, S., Ruhrberg, C. & Schwarz, Q., 12 May 2015, In: *Proceedings of the National Academy of Sciences of the United States of America*. 112, 19, p. 6086-6091

**Diverse roles for VEGF-A in the nervous system**

Mackenzie, F. & Ruhrberg, C., 30 Apr 2012, In: *Development (Cambridge)*. 139, 8, p. 1371-1380

**Emerging roles for semaphorins and VEGFs in synaptogenesis and synaptic plasticity**

Tillo, M., Ruhrberg, C. & Mackenzie, F., 2012, In: *Cell Adhesion & Migration*. 6, 6, p. 541-546

Axonal and neuromuscular synaptic phenotypes in *Wld<sup>S</sup>*, *SOD1<sup>G93A</sup>* and *ostes* mutant mice identified by fiber-optic confocal microendoscopy

Wong, F., Fan, L., Wells, S., Hartley, R., Mackenzie, F. E., Oyebode, O., Brown, R., Thomson, D., Coleman, M. P., Blanco, G. & Ribchester, R. R., Nov 2009, In: *Molecular and Cellular Neuroscience*. 42, 4, p. 296-307 12 p.

Upregulation of PKD1L2 provokes a complex neuromuscular disease in the mouse

Mackenzie, F., Romero, R., Williams, D., Gillingwater, T., Hilton, H., Dick, J., Riddoch-Contreras, J., Wong, F., Ireson, L., Powles-Glover, N., Riley, G., Underhill, P., Hough, T., Arkell, R., Greensmith, L., Ribchester, R. R. & Blanco, G., 1 Oct 2009, In: *Human Molecular Genetics*. 18, 19, p. 3553-3566 14 p.

Analysis of the mouse mutant *Cloth-ears* shows a role for the voltage-gated sodium channel *Scn8a* in peripheral neural hearing loss

MacKenzie, F. E., Parker, A., Parkinson, N. J., Oliver, P. L., Brooker, D., Underhill, P., Lukashkina, V. A., Lukashkin, A. N., Holmes, C. & Brown, S. D. M., Oct 2009, In: *Genes, Brain and Behavior*. 8, 7, p. 699-713 15 p.

Mutation at the *Evi1* locus in *Junbo* mice causes susceptibility to otitis media

Parkinson, N., Hardisty-Hughes, R. E., Tateossian, H., Tsai, H. T., Brooker, D., Morse, S., Lalane, Z., MacKenzie, F., Fray, M., Glenister, P., Woodward, A. M., Polley, S., Barbaric, I., Dear, N., Hough, T. A., Hunter, A. J., Cheeseman, M. T. & Brown, S. D. M., 2006, In: *PLoS Genetics*. 2, 10, p. 1556-1564 9 p., e149.

Disruption of the imprinted Grb10 gene leads to disproportionate overgrowth by an Igf2-independent mechanism  
Charalambous, M., Smith, F. M., Bennett, W. R., Crew, T. E., Mackenzie, F. & Ward, A., 8 Jul 2003, In: Proceedings of the National Academy of Sciences of the United States of America. 100, 14, p. 8292-8297 6 p.