Curriculum Vitae

Personal information

Declan Byrnes

Work experience

February, 2025 – Present

Position: Clinical Assessor

Employer: HPRA

Country of Employment: Ireland

Main Activities: Responsibility for assessment of clinical dossiers for centralised European marketing approval (new applications, renewals, variations).

March, 2024 – February, 2025

Position: Scientific Officer, Assessment and Surveillance of Medical Devices

Employer: HPRA

Country of Employment: Ireland

Main Activities: Regulatory compliance to ensure medical devices meet national legislation and EU regulatory standards. Monitor and assess the safety of marketed medical devices, including post-market surveillance and incident reporting.

February, 2023 – February, 2024

Position: Postdoctoral Researcher - Immunology

Employer: Trinity College Dublin

Country of Employment: Ireland

Main Activities: Provided technical expertise in the design, implementation, data analysis, and management of an SFI funded project in the field allergic lung responses.

Education and training

October, 2018 – June, 2023

Qualification: PhD in Translational Medicine

Institution: University of Galway, Department of Anesthesiology

Country of Institution: Ireland

September, 2017 – August, 2018

Qualification: Masters of Science, Regenerative Medicine

Institution: University of Galway, REMEDI

Country of Institution: Ireland

September, 2013 – May, 2017

Qualification: Bachelors of Science, Microbiology

Institution: University College Cork

Country of Institution: Ireland

Additional information

Publications

Delayed MSC therapy enhances resolution of organized pneumonia induced by antibiotic resistant Klebsiella pneumoniae infection. **Byrnes, D**., Masterson, CH., Brady, J., Horie, S., McCarthy, SD., González, H., O'Toole, D., Laffey, JG. (2023)

Multiple Dosing and Preactivation of Mesenchymal Stromal Cells Enhance Efficacy in Established Pneumonia Induced

by Antimicrobial-Resistant Klebsiella pneumoniae in Rodents. **Byrnes, D**., Masterson, CH., González, H., McCarthy, SD., O'Toole, D., Laffey, JG. (2023)

Nebulised mesenchymal stem cell derived extracellular vesicles ameliorate E. coli induced pneumonia in a rodent model. González, H., McCarthy, SD., Masterson, CH., **Byrnes, D**., *et al.* (2023)

Differential Effects of Cytokine Versus Hypoxic Preconditioning of Human Mesenchymal Stromal Cells in Pulmonary Sepsis Induced by Antimicrobial-Resistant Klebsiella pneumoniae. **Byrnes, D**., Masterson, CH., Brady, J., Alagesan, S., González, H., McCarthy, SD., Fandiño, J., O'Toole, D., Laffey, JG. (2023)

Aerosolized pulmonary delivery of mRNA constructs attenuates E. coli pneumonia severity in the rat. McCarthy, SD., Rhode, C., Angel, A., Masterson, CH., MacLoughain, R., Fandiño, J., González, H., **Byrnes, D.,** Laffey, J., O'Toole, D. (2022)

Enhancement strategies for mesenchymal stem cells and related therapies. **Byrnes, D.** *et al.* (2022)

Mesenchymal Stem/Stromal Cells Therapy for Sepsis and Acute Respiratory Distress Syndrome. **Byrnes, D**., Masterson, CH., Artigas, A., Laffey, JG. (2020)

Hypercapnia in the critically ill - Insights from the bench to the bedside. **Byrnes, D**., Masterson, CH., Horie, S., McCarthy, SD., González, H., Brady, J., Fandiñho, J., Laffey, JG., O'Toole, D. (2020)

Projects

Memberships

Other Relevant Information