



8 PhD Positions Available

Microbial Pathogens and Microbiome

- The **COL_RES Innovative Training Network (ITN)** will examine the mechanisms by which the gut microbiota protects against foodborne pathogens (*Salmonella*, *E. coli*, *Listeria*, *Citrobacter rodentium* and *Campylobacter*) and lead to the identification of next generation probiotics that can potentially protect against multiple infectious agents.
- The network will provide state-of-the-art training for 8 PhD students (early stage researchers (ESRs)).
- The programme will utilize a systems biology-based approach by exploiting existing research models at world-leading laboratories combined with phageomics, metabolomics and bioinformatics to generate multi-omics data that will uncover mechanisms by which the gut microbiota protects against foodborne pathogens.
- The ESRs will be recruited within 2021 for a duration of 36 months.
- Each ESR position in COL_RES allows the researcher to work towards a PhD at one of our six academic institutions. Every ESR will work on an independent research project with an allied training programme. ESRs will each undertake two periods of secondment to other academic or industry institutes.
- Marie Skłodowska-Curie ESRs are paid an attractive gross salary of 3,270 €/month for 36 months (as defined in MSCA guidelines). The exact (net) salary will be confirmed upon appointment and is dependent on local tax, social and health insurance regulations and on the country correction factor.
- The eight projects are indicated below:

ESR1: Microbiota & *Citrobacter rodentium*
ESR3: Microbiota & *Campylobacter jejuni*
ESR5: Microbiota & *E. coli* (EHEC)
ESR7: Metabolomics for microbiome studies

ESR2: Microbiota & *Listeria monocytogenes*
ESR4: Microbiota & *Salmonella Typhimurium*
ESR6: Gut phage & infection
ESR8: Machine-learning & multiomics

For more details on individual projects and how to apply consult the COL_RES page on the Euraxess website <https://euraxess.ec.europa.eu/jobs/607265>

Contact co-ordinator *Prof. Cormac Gahan, University College Cork* for further details c.gahan@ucc.ie
Deadline for applications: 26th March 2021