Researcher Background

Anne Marie Healy, Co-PI

- Professor in Pharmaceutics and Pharmaceutical Technology
- Registered pharmacist
- Fellow of Trinity College Dublin
- Head of School of Pharmacy and Pharmaceutical Sciences, Trinity College Dublin

Research Field

Preformulation and formulation science

Particular expertise in:

- amorphous materials,
- pharmaceutical processing,
- formulation of poorly soluble drugs, and
- pulmonary drug delivery

Scientific Impact

- > 90 peer-reviewed publications and review articles
- H-index of 27
- > 1900 citations
- > 150 conference presentations
- > 60% of publications in top 10 journal percentiles

Technological Impact

Preformulation and formulation science enable the development, production and use of safe and effective medicines to address patient need

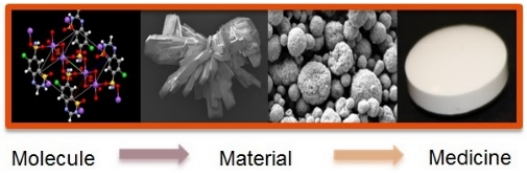
Researcher Programme

Pharmaceutical Material Science

Goal: Understand and control the physicochemical characteristics of API and excipient materials.

Why: Drug product performance for oral solid dosage forms can be optimised through alteration of material characteristics.

Who: A team of post-docs and postgrad students.

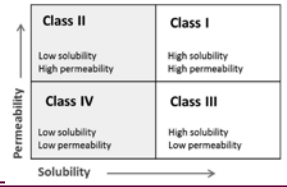


Formulations for Poorly Soluble Drugs

Goal: Enabled formulations for poorly soluble drugs.

Why: More than 60% of new drug molecules display poor aqueous solubility. There is an on-going need for enabling formulations for such therapeutic agents which have suboptimal bioavailability.

Who: A team of post-docs and postgrad students.



Optimised Pharmaceutical Processing

Goal: Control the impact of pharmaceutical processing on solid state, micromeritic and biopharmaceutical characteristics of pharmaceutical materials.

Why: Improve manufacturing efficiency for solid dosage forms.

Who: A team of post-docs and postgrad students.

Pulmonary Drug Delivery

Goal: Optimise the formulation and delivery of new therapeutic agents to treat respiratory disease.

Why: Site specific drug delivery improves therapeutic effectiveness.

Who: Post-docs (x 2) in collaboration with teams in UCD and UCSF.