



OLLSCOIL NA GAILLIMHE  
UNIVERSITY OF GALWAY

Date:  
1/1/2023

Min. Time  
Commitment:  
23 Hours

Expiry Date:  
31/12/2025

Module Code:  
BM2101



## Breda O'Brien

### *Scientific Communication Skills*

#### *Secondary description example*

This module develops students written and oral scientific communications skills in the field of biomedical science. Students are introduced to literature searching and tasked with identifying and selecting scientific evidence to present a coherent story about an emerging therapy. Students will organise information in the form of tables and reproduce images which describe mechanisms of disease and drug action and also the outcome of pre-clinical and clinical drug studies.

Students will be presented with a clear assignment brief to produce a written evidence-based portfolio and accompanying oral presentation about an emerging therapy in Biomedical Science.

#### **To earn this badge the student must:**

1. Search the scientific literature for information relevant to the chosen disease and drug, identifying evidence presented in original research manuscripts.
2. Summarise and tabulate key elements of the research studies, such as design, methodology and results.
3. Produce a written evidence-based portfolio on an emerging therapy. Select a drug/disease combination from the US Food and Drugs Administration (FDA) list of newly-approved drugs.
4. Present an oral presentation to peers and academic staff on the same topic and answer questions to demonstrate understanding of the biological mechanisms, drug target and outcomes or pre-clinical and clinical studies. The outputs must be of high quality and achieve at least a 2.1 grade.

### *Skills*

Communication Confidence | Critical Thinking | Curiosity | Project Management

(DH) JL

Ciarán Ó hOgartaigh  
President,  
University of Galway





## Breda O'Brien

### *Scientific Communication Skills*

#### *Secondary description example*

This module develops students written and oral scientific communications skills in the field of biomedical science. Students are introduced to literature searching and tasked with identifying and selecting scientific evidence to present a coherent story about an emerging therapy. Students will organise information in the form of tables and reproduce images which describe mechanisms of disease and drug action and also the outcome of pre-clinical and clinical drug studies.

Students will be presented with a clear assignment brief to produce a written evidence-based portfolio and accompanying oral presentation about an emerging therapy in Biomedical Science.

#### **To earn this badge the student must:**

1. Search the scientific literature for information relevant to the chosen disease and drug, identifying evidence presented in original research manuscripts.
2. Summarise and tabulate key elements of the research studies, such as design, methodology and results.
3. Produce a written evidence-based portfolio on an emerging therapy. Select a drug/disease combination from the US Food and Drugs Administration (FDA) list of newly-approved drugs.
4. Present an oral presentation to peers and academic staff on the same topic and answer questions to demonstrate understanding of the biological mechanisms, drug target and outcomes or pre-clinical and clinical studies. The outputs must be of high quality and achieve at least a 2.1 grade.

### *Skills*

**Communication:** Communicated complex biomedical medical concepts in both written and oral format.

**Confidence:** Showed confidence in sharing work in progress with peers and academic mentors. Developed confidence to deliver an oral presentation and answer questions.

**Critical Thinking:** Employed critical thinking to select and identify evidence for drug activity in published pre-clinical and clinical studies.

**Curiosity:** Demonstrated curiosity through researching and selecting a disease/therapy combination that was of personal interest.



**Project Management:** Managed a task that ran over several weeks, using a suggested timeline to achieve intermediate steps and submit a full draft for feedback ahead of the final deadline.

(DW) JK

**Ciarán Ó hOgartaigh**  
President,  
University of Galway

