

Dr Dania Movia - Curriculum Vitae

EDUCATION

- Sept. 2018 **Special Purpose Certificate in Academic Practice**
School of Education, Trinity College Dublin (Ireland)
- April 2012 **PhD in Chemistry**
School of Chemistry, Trinity College Dublin (Ireland)
- Nov. 2007 **MSc in Chemistry and Pharmaceutical Technologies (Medicinal Chemistry)**
School of Pharmacy, University of Trieste (Italy)

CURRENT POSITION

2017-Present **Senior Research Fellow**, School of Medicine, Trinity College Dublin (Ireland)

PREVIOUS POSITIONS

- 2015 – 2017 **Research Fellow**, School of Medicine, Trinity College Dublin (Ireland)
- 2014 – 2015 **Post-doctoral Research Fellow**, Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN) and School of Medicine, Trinity College Dublin (Ireland)
- 2011 – 2014 **Research Assistant**, CRANN, Trinity College Dublin (Ireland)
- 2007 **Pharmacist Intern**, Farmacia Bernini (Italy)

SCHOLARSHIPS AND FELLOWSHIPS

- 2015 – 2017 **Government of Ireland Postdoctoral Fellowship**, Irish Research Council (Ireland)
- 2012 – 2014 **Pathfinder Fellowship**, CRANN, Trinity College Dublin (Ireland)
- 2008 – 2011 **Postgraduate Research Scholarship**, IRCSET (Ireland)
- 2008 **Research Bursary**, Centre for Microscopy and Analysis, Trinity College Dublin (Ireland)
- 2007 – 2008 **Postgraduate Research Studentships**, Trinity College Dublin (Ireland)

SUPERVISION AND MENTORSHIP OF GRADUATE AND POST-GRADUATE STUDENTS

Projects that have generated publications in peer-reviewed journals are marked with an asterisk (*).

Student	Degree	School	Institution	Year	Role
Solene Bruni-Favier*	MSc, Biological Engineering	Engineering	Polytech Marseille (France)	2019	Supervisor
Melissa A. Tutty *	PhD	Medicine	Trinity College Dublin (Ireland)	On-going	Co-supervisor
Joseph Eshun	MSc, Molecular Medicine			2018	Supervisor
Todkari Vaibhav				2017	
Sweeny Chauhan				2016	
Daniela Guerrera	MSc, Biomedical Engineering	Engineering	Politecnico di Torino (Italy)	2016	Co-supervisor
Cristina Multari*				2015	Mentor
Karen Mc Quillan*	BSc, Biomolecular Science	Biological Sciences	Dublin Institute of Technology (Ireland)	2015	
Lisa Mathejczyk	B.A.Sc., Biology		Julius-Maximilians-Universität Würzburg (Germany)	2014	
Roaa Alnemari*	MSc, Molecular Medicine	Medicine	Trinity College Dublin (Ireland)	2014	
Manisha Singh*					
James D.B. Gavigan-Imedio*	MSc, Translational Oncology			2013	
Stephanie Moffitt	Summer CSEI Internships	Chemistry	University of California Santa Barbara (USA)	2010	

TEACHING ACTIVITIES

2019 – Present **Lecturer**

Subjects: (1) *Nanodrug delivery systems: basic and case studies*; (2) *High-throughput systems: organ-on-chip and lab-on-chip*

Student level: Post-graduate

Degree, Institution: MSc in Molecular Medicine, Trinity College Dublin (Ireland)

2016 – Present **Lecturer**

Subjects: (1) *Advanced 3D in vitro systems for nanomedicine development*; (2) *Advanced Therapeutics Enabled by Nanotechnology*

Student level: Post-graduate

Degree, Institution: MSc in Molecular Medicine, Trinity College Dublin (Ireland)

2008 – 2011 **Lab demonstrator**

Subject: *Physical chemistry laboratory*

Student level: Undergraduate (Junior Fresh)

School, Institution: School of Chemistry, Trinity College Dublin (Ireland)

REVIEWER FOR POST-GRADUATE STUDENTS

2020 **Doctoral defence committee member.**

Student: Ms Chrysovalanto Louka.

Degree, Institution: Doctor of the Grenoble Alpes University Community, specialty "Sciences de la Terre et de l'Univers et de l'Environnement (CESTUE).

Viva date: 21st Feb. 2020

2019 **Grader** for Lay Research Blitz

Subject: *Key Skills for Biomedical Research*

Degree, Institution: MSc in Translational Oncology, Trinity College Dublin (Ireland)

COMMISSIONS OF TRUST

2020 – Present **Expert proposal evaluator**, *Directorate-General for Research and Innovation* (Horizon 2020 Societal Challenge 1 programme, European Commission).

2019 – Present School of Medicine **Social Media Advisory Group member**, Trinity College Dublin.

2019 – Present **Scientific Advisory Panel member**, *Animal-Free Research UK*.

2019 – Present **Expert Panel member**, *SAToRI-BTR project*.

2019 – Present **Topic Editor** for the *Frontiers in Bioengineering and Biotechnology* journal – Topic: *Use of 3D Models in Drug Development and Precision Medicine: Advances and Outlook*.

2017 – Present **Member** of the *SciLine* database of scientific sources.

2017 – 2019 **Expert proposal evaluator**, *European Innovation Council* (Horizon2020 SME Instrument programme, European Commission).

2016 – Present **Member** of the *Trinity College Experts Directory*, Trinity College Dublin (Ireland).

2014 – Present **Peer reviewer** for: *Expert Opinion on Drug Discovery*; *Acta Biomaterialia*; *Biomedicine & Pharmacotherapy*; *Therapeutic Advances in Medical Oncology*; *Drug Design, Development and Therapy*; *Nature Scientific Reports*; *Oncotarget*; *Journal of Controlled Release*; *Spectrochim Acta A Mol Biomol Spectrosc*; *Cell Biology and Toxicology*; *Materials Today Communications*; *Free Radical Biology and Medicine*; *Journal of Nanomaterials*.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- EACR (European Association for Cancer Research) membership.
- 500 Women Scientists Dublin Pod membership.

PROFESSIONAL ACCREDITATIONS

2008 National accreditation to the Italian pharmacists' register.

ACADEMIC AND SCIENTIFIC ACHIEVEMENTS TO DATE

- Expert evaluator for EU Horizon 2020 proposals under several different programmes.
- Based on my outstanding track record, I was appointed the rank of Senior Research Fellow (SRF) and Principal Investigator in the Trinity College School of Medicine after only 5 years from my PhD completion.

- *h*-index: 17 (source: Google Scholar) – Total number of citations: 976 (source: Google Scholar), with an average number of citations per publication equal to 25.4.
- 4 publications solely in 2020 and 736 citations accumulated in the last 5 years (source: Google Scholar), demonstrating the excellence and timely relevance of my research.

MY PUBLICATIONS IN A NUTSHELL

- 38 peer-reviewed publications, of which: 31 articles, 2 reviews, 2 conference proceedings and 3 book chapters.
- 30 publications without my PhD supervisor (Dr S. Giordani).
- 16 articles and 3 book chapters as first-name or joint first-name author; 1 article as last-name, senior author; 8 articles as corresponding author.
- ORCID ID: 0000-0001-6412-8132; Scopus Author ID: 35559478500; Researcher ID: T-6552-2018

MY ON-GOING RESEARCH FUNDING

Project title	Funding Source	Amount	Period	Role
<i>BIOMaterial Risk Management (BIORIMA)</i>	European Commission (Call: NMBP-12-17)	€ 265,596 (budget allocated to my host institution)	2017-2021	Project partner; co-PI and senior research scientist.

MY PAST RESEARCH FUNDING

Project title	Funding Source	Amount	Period	Role
<i>Proposal Preparation Support Scheme</i>	Enterprise Ireland	€ 12,413	2018-2019	PI and project leader.
<i>Pre-clinical models for predicting the toxicity, absorption and biodistribution of inhaled nanomaterials in humans</i>	Johns Hopkins University Center for Alternatives to Animal Testing (CAAT)	\$ 40,000 (equal to approx. € 33,840)	2018-2020	PI, project leader and senior research scientist.
<i>INEDITED - Improve NanomEDicine Translation into clinical lung cancer Drugs</i>	Irish Research Council (Government of Ireland Postdoctoral Fellowship Programme)	€ 91,000	2015-2016	Awardee and postdoctoral researcher.

INTERNATIONAL PRIZES/AWARDS

- 2015 AMBER Director Fund.
- 2012 Research award for the publication of an internationally peer-reviewed publication of the highest quality, CRANN, Trinity College Dublin (Ireland).
- 2009 Trinity Trust Travel Grant: Postgraduate Travel Funds, Trinity College Dublin (Ireland).
- 2009 Best Material Science Poster, 33rd Annual Microscopy Society of Ireland (MSI) meeting.

INTERNATIONAL VISIBILITY

- 2019 **Session chair**, *Advances in Cell & Tissue Culture* conference 2019 (ACTC2019), 4th-5th June 2019, Cardiff, UK.

INVITED PRESENTATIONS

To date, I have presented 6 invited talks.

Invited presentations at internationally established conferences:

- Title: *Using tissue mimetic models to understand lung cancer*. Conference: ERS Research Seminar entitled “Innovative 3D models for understanding mechanisms underlying lung diseases: powerful tools for translational research”, 14th-16th March 2021, Estoril, Portugal.
- Title: *Targeted polyethylene glycol gold nanoparticles for the treatment of pancreatic cancer: from synthesis to a proof-of-concept in vitro studies*. Conference: Nanobiotechnology International Workshop, Joint Research Centre (JRC), 23rd-25th November 2015, Ispra, Italy.

Invited presentations at international advanced schools:

- Title: *Nanomedicine: from the lab to the market*. School: Nanosafety Training School: From Basic Science To Risk Governance; 22nd-27th March 2020, Venice, Italy (Trainer).

- Title: *Nanomedicine: from the lab to the market*. School: 1st Interprofessional Education Nano Training School, 25th-29th March 2019, Venice, Italy (Trainer).
- Title: *Alternative 3D in vitro models for hazard assessment of inhaled nanomedicine products*. School: 1st BIORIMA Training School, 16th-20th April 2018, Venice, Italy (Trainer).

Invited presentations at seminar series:

- Title: *3D in vitro models of lung cancer: understanding the model's characteristics to improve the translation of nanomedicine*. Seminar series: TTMI (Trinity Translational Medicine Institute) seminar series, Trinity College Dublin, 13th June 2017, Dublin, Ireland.
- Title: *Nanomedicine: A multidisciplinary solution towards improving the benefit of existing anticancer treatments*. Seminar series: "Let's Talk about Nano" Seminar series, Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN), Trinity College Dublin, 03rd September 2014, Dublin, Ireland.
- Title: *Nanomedicine: science fiction or solution to unmet challenges? One step closer to translation*. Seminar series: IMM Monday Talk series, Trinity College Dublin, 10th February 2014, Dublin, Ireland.

PARTICIPATION TO INTERNATIONAL CONFERENCES

I have presented 7 oral and 9 poster presentations at international conferences.

OUTREACH ACTIVITIES

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| 2018 – Present | Science communicator on the social media platform Instagram (@damovia) |
| 2019 | Speaker at the <i>School of Chemistry Alumni to Student Networking Reception 2019</i> event. |
| 2018 | Speaker at the <i>School of Chemistry for Alumni to Student Postgraduate Networking</i> event. |
| 2017 | Correspondent for the European Association for Cancer Research (EACR) at the <i>Oncology at the Limits</i> conference (London, UK). |
| 2015 – 2017 | Actively involved in the organisation of lab tours to Transition-Year students interested in nanotechnology and medicine (Trinity College Dublin). |
| 2014 | Science outreach representative at <i>Discover Research Night</i> (Dublin, Ireland). |