

Dr Catherine TULEU
Professor of Paediatric Pharmaceutics

Education / Qualifications

2004	Certificate (Module 5) in accredited training for applicants for licenses under the Animals (Scientific Procedures) Act 1986	The Royal Veterinary College, London
2002	Postgraduate Certificate in Teaching and Learning in Higher Education	Kingston University (UK)
1999	PhD in Pharmaceutical Sciences and Biopharmacy	Université Paris XI (France)
1996	Diploma in Animal Experimentation	Université Paris V
1995	MSc in Pharmaceutical Technology and Biopharmacy	Université Paris XI
1994	Docteur en Pharmacie (DPharm)	Université Paris V

Professional History

2011- 17	Reader in Pharmaceutics	UCL School of Pharmacy
2007-11	Senior Lecturer in Pharmaceutics	The School of Pharmacy, University of London (UoL)
2006-	Teacher	UoL
2003- 07	Full time Lecturer in Pharmaceutics	The School of Pharmacy, UoL
2001-02	Lecturer in Chemistry and Pharm Sciences	Kingston University (UK)
2000-01	Research assistant , Dpt of Pharmaceutics	The School of Pharmacy, UoL
1999-00	British Council Postdoctoral Fellow ,	The School of Pharmacy, UoL
1997-98	Teaching Fellow , Department of Pharmaceutics	Université Paris V
1996-97	Part time Teacher (Foundation Diploma in pharmaceutical sciences)	Institut du Médicament de Tours, France
1989-94	Regular Community Pharmacy locums	France

Other Appointments and Affiliations

- Registered Pharmacist: member of the general Pharmaceutical Council (GPhC)]
- Honorary Pharmacist, Great Ormond Street Hospital for Children NHS Trust
- Member of Neonatal and Paediatric Pharmacists Group (NPPG) and its London Forum
- Chair of the European Paediatric Formulation Initiative EuPFI since 2007
- Member of the Formulation working group of the EMA Paediatric Committee (PDCO) (2007- 2018)
- Member of the MHRA Paediatric Medicines Expert Advisory Group (14/1/10-13/1/18)
- Wellcome Trust advisor (2015-2019)

Teaching Activity

- Teaching pharmaceutics topics [from powder technology to routes of administration: vaginal, rectal drug delivery] on the MPharm course (PHAY006, PHAYG063), on Msc (drug delivery; Formulation and entrepreneurship (PHAY0050 & 0056), on PHAYMX98 Integrated Therapeutics and on the new Qualified Person training course, from small group lectures, tutorials or practical classes, to large group lectures. *This year I have introduced in the 3rd year curriculum (PHAY0010) a 50min lecture on Gender and the practice of pharmacy which was also a platform to raise awareness around the Equality, diversity and inclusion GPhC statement.*
- Leadership (teacher and responsible for module design, delivery, assessment and integration, since 2003) for option PHAY 0013-4B MEDICINES FOR CHILDREN Level 6 (Year 3) -15 ECTS running over 11 weeks - 2h/week over a term, 25students]. *This year the novelty was a Joint 3rd year Pharmacy and iBSc medical students in Paediatrics & Child Health session on Leukemia.*
- Undergraduate Personal Advisor role (one to one or groups of 4-6 students/MPharm year)
- External teaching:
 - Yearly seminar on Foundation in Paediatric Pharmaceutical Care International Masterclass Evelina London Children's Hospital, Guy's and St Thomas' NHS Foundation Trust (Kings Health Partners)]
 - Responsible (content, educational quality, delivery and assessment) for the paediatric formulation e-module (6 ECTS, total of 100 student hours) in the e-Master of Science in Paediatric Medicines Development and Evaluation GRiP educational programmes. www.grip-network.org/index.php/cms/en/master_paediatric_medicines

Academic Supervision

On average: 4 MPharm ((PHAYMX98), 1 Erasmus and 4 MSc students /year (PHAY0050 and 0056)
9 PhD completed - 4 Current PhD students

Enabling Activity

2017-	Member of the Divisional Executive team (DET)	UCL School of Pharmacy
2016-	Co-Chair of Athena Swan Self-Assessment Committee (now EDIC)	UCL School of Pharmacy
	Member of 2 research clusters:	UCL School of Pharmacy
2016-	• Age-related medicines development and use	
2012-	• Patient usage and optimisation of medicines	
2012-	Member of Research Degrees Committee	UCL School of Pharmacy
	Member of the UG and PGT Board of Examiners	
Until 2012	ULLA member (European University Consortium for Pharmaceutical Sciences)	The School of Pharmacy, UoL
Until 2012	Member of the Academic Board	The School of Pharmacy, UoL
	Member the Research Ethics Committee	
2011-2012	Director, Centre for Paediatric Pharmacy Research	The School of Pharmacy, UoL

Recent Publications (h-index 20)

Book

- Costello, I., Long, P.F., Wong, I.C.K., Tuleu, C., & Yeung, V. (2007). Paediatric Drug Handling. A. T. Florence, & A. C. Moffat (Eds.), London, UK: Pharmaceutical Press.

Book chapters

- Orlu M, Salunke S, Tuleu C (2018) CH 10 Paediatric Pharmaceutics-The Science of Formulating Medicines for Children in Pharmaceutical Formulation: The Science and Technology of Dosage Forms published by RSC.

-Tuleu, C., Orlu-Gul M., Wright, D. (2017). CH 45 Design and administration of medicines for children and the elderly. In Aulton's Pharmaceutics: The Design and Manufacture of Medicines, (5 ed., pp. 829-844).

- Ranmal, S., Barker, S., Tuleu, C. (2014). Paediatric solid formulations. In D. Bar-Shalom, & K. Rose (Eds.), Pediatric formulations: a roadmap (pp. 153-170). Springer.

- Tuleu, C., Solomonidou, D., & Breitskreutz, J. (2010). Paediatric formulations. In Guide to Paediatric Drug Development and Clinical Research (pp. 117-127)

- Breitskreutz, J., & Tuleu, C. (2009). Pediatric and geriatric pharmaceutics and formulation. In A. T. Florence, & J. Siepmann (Eds.), Modern Pharmaceutics (pp. 221-257). New York: Informa.

Peer reviewed articles (2018-2019)

- Keeley A, Teo M, Ali Z, Frost J, Ghimire M, Rajabi-Siahboomi A, Orlu M, Tuleu C. In vitro dissolution model can predict the in vivo taste masking performance of coated multiparticulates. Mol Pharm. 2019 Mar 22.

- Marconati M, Lopez F, Tuleu C, Orlu M, Ramaioli M. In vitro and sensory tests to design easy-to-swallow multiparticulate formulations. Eur J Pharm Sci. 2019 Mar 13. pii: S0928-0987(19)30087-9. [Epub ahead of print]

- Soto J, Keeley A, Keating AV, Mohamed-Ahmed AHA, Sheng Y, Winzenburg G, Turner R, Desset-Brèthes S, Orlu M, Tuleu C. Rats can predict aversiveness of Active Pharmaceutical Ingredients. Eur J Pharm Biopharm. 2018 Dec;133:77-84.

- Lopez FL, Ernest TB, Orlu M, Tuleu C. The effect of administration media on palatability and ease of swallowing of multiparticulate formulations. Int J Pharm. 2018 Nov 15;551(1-2):67-75.

- Bowles BJ, Dziemidowicz K, Lopez FL, Orlu M, Tuleu C, Edwards AJ, Ernest TB. Co-Processed Excipients for Dispersible Tablets-Part 1: Manufacturability. AAPS PharmSciTech. 2018 Aug;19(6):2598-2609. -Dziemidowicz K,

Lopez FL, Bowles BJ, Edwards AJ, Ernest TB, Orlu M, Tuleu C. Co-Processed Excipients for Dispersible Tablets-Part 2: Patient Acceptability. AAPS PharmSciTech. 2018 Aug;19(6):2646-2657.

- Lopez FL, Mistry P, Batchelor HK, Bennett J, Coupe A, Ernest TB, Orlu M, Tuleu C. Acceptability of placebo multiparticulate formulations in children and adults. Sci Rep. 2018 Jun 15;8(1):9210.

- Ranmal SR, O'Brien F, Lopez F, Ruiz F, Orlu M, Tuleu C, Walsh J, Liu F. Methodologies for assessing the acceptability of oral formulations among children and older adults: a systematic review. Drug Discov Today. 2018 Apr 23(4):830-847.

- Cheung LC, Nguyen M, Tang E, von Ungern Sternberg BS, Salman S, Tuleu C, Mohamed Ahmed AHA, Soto J, Lim LY. Taste evaluation of a novel midazolam tablet for pediatric patients: In vitro drug dissolution, in vivo animal taste aversion and clinical taste perception profiles. Int J Pharm. 2018 Jan 15;535(1-2):194-200.

-Keating AV, Soto J, Tuleu C, Forbes C, Zhao M, Craig DQM. Solid state characterisation and taste masking efficiency evaluation of polymer based extrudates of isoniazid for paediatric administration. Int J Pharm. 2018 Feb;536(2):536-546.

- Orubu S, Okwelogu C, Opanuga O, Tuleu C. A survey of caregivers of Nigerian children less than 6 years of age to determine the experience and perception of acceptability of oral solid dosage forms. Int J Pharm. 2018 Feb 5;536(2):582-589.