

5<sup>th</sup> International Conference and Exhibition on

# Pharmaceutics & Novel Drug Delivery Systems

March 16-18, 2015 Crowne Plaza, Dubai, UAE

## Coping with the management of medicine at old age: What older people think? What formulations scientists can do?

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The current patient-centric formulation development specifically for geriatric patients is limited. However, steps are taken to improve the present status. The European Medicines Agency's Geriatric Medicines Strategy, FDA's Guidance of Industry E7 Studies in Support of Special Populations: Geriatrics - Questions and Answers document and EFPIA Position Paper on Drug Development for Older and Ageing Patients are promising to increase the availability of medicines tailored for needs of older patients. The review of current scientific literature shows that further research should be performed to rationalize formulation development for elderly. Besides the conventional biopharmaceutical properties of the drug and quality aspects of the formulation, organoleptic properties such as ease of swallowing, taste and simplicity of opening packaging should be considered at early stage of product development due the potential impact on patient acceptability. The presentation will cover several ongoing scientific studies to explore the pharmaceutical needs and solutions under the light of the opinion of older people obtained during public engagement workshops.

### Biography

Mine Orlu Gul is a pharmacist. She graduated from Istanbul University, Faculty of Pharmacy. She received her MSc on the subject of colon targeted microspheres in 2003, followed by a PhD about fluorescently-labeled nanoparticles and their interaction with lung cells in 2008 from Istanbul University, Faculty of Pharmacy. During her PhD studies, she held a 1-year visiting scientist post at King's College London funded by Marie Curie Host Fellowship for Early Stage Training in the 6th Framework Programme of the European Commission. She started The School of Pharmacy, University of London in March 2008 as a post-doc for Prof Oya Alpar to perform studies on vaccine formulations. In her second post-doc position, she joined Dr Catherine Tuleu's group as a Teaching and Research Fellow at UCL School of Pharmacy, Department of Pharmaceutics, Centre for Paediatric Pharmacy Research to work in the field of paediatric pharmaceutics and drug delivery. Her fellowship was funded by UK NIHR Medicines for Children Research Network (MCRN) from June 2009 to September 2012. She was appointed as Lecturer in Pharmaceutics to develop a research agenda in geriatric pharmaceutics in October 2012. She is a member of UCL Grand Challenges of Human Wellbeing Executive Group and Geriatric Medicines Society Age Appropriate Formulations Working Group. She also co-chairs The Academy of Pharmaceutical Sciences-Age Related Medicines Focus Group.

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