

Special Issue

Advanced Therapy Medicinal Products for Eye Diseases: Goals and Challenges

Message from the Guest Editors

The concept of advanced therapy medicinal products (ATMPs) encompasses novel kinds of medicines for human use that are based on genes, cells or tissues. Gene therapy, cell therapy, and tissue engineering are the main areas in which promising advanced therapies are emerging. The eye is a very complex organ whose main structures, the cornea and the retina, play a pivotal role in maintaining normal vision, as severe alterations in these tissues can lead to blindness. Ocular tissues are starting to benefit from ATMPs to fight the enormous complexity and devastating potential of many ocular diseases. However, developments arising from this field of work face important challenges related to vectors to deliver drugs and genetic material to target tissues, suitable biomaterials to prepare cell scaffolds, and cell stemness, among others, not to mention the complicated legislation around ATMPs. This Special Issue serves as an overview of the current progress in the application of cell and gene therapies as well as tissue engineering to restore functionality in diseased ocular structures and the challenges they deal with to reach patients.

Guest Editors

Prof. Dr. Yolanda Diebold

1. School of Medicine, University of Valladolid, Ramón y Cajal 7, 47001 Valladolid, Spain
2. Instituto Universitario de Oftalmobiología Aplicada (IOBA), Universidad de Valladolid, Paseo de Belén 17, 47011 Valladolid, Spain
3. Centro de Investigación Biomédica en Red Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Instituto de Salud Carlos III, Valladolid, Spain

Dr. Laura García-Posadas

Instituto Universitario de Oftalmobiología Aplicada (IOBA), Universidad de Valladolid, Paseo de Belén 17, 47011 Valladolid, Spain

Deadline for manuscript submissions

closed (1 July 2021)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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