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Photoreceptor transplantation is a clinical goal for the treatment of end-stage inherited retinal degenerations, such as retinitis pigmentosa and possibly age-related macular degeneration. In all these scenarios the technical challenge will be to transplant photoreceptors into a subretinal space that is devoid of any host photoreceptors. The transplanted cells must maintain a capacity to reconnect and restore visual function to the host inner retinal layers. Different strategies to make this successful will be discussed."