シンポジウム

TRI10周年記念シンポジウム　1st World Centenarian Initiative
脊髄損傷に対する革新的治療法開発の現状と展望

主催：公益財団法人 先端医療振興財団 臨床研究情報センター
共催：一般財団法人 日本予防医学協会
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TRI 10th Anniversary Symposium 1st World Centenarian Initiative

Overcoming neuronal system refractory diseases: The current situation and future prospects for the development of innovative therapies for spinal cord injury

Organized by：Translational Research Informatics Center, Foundation for Biomedical Research and Innovation
Co-organized by：Association for Preventive Medicine of Japan

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Abstract

With the aging rate in Japan now at 23.3% and estimated to reach 40% in 2050, the so-called super-aging society is just around the corner. The rise in emerging markets, limited resources, and rapidly decreasing labor force in Japan mean that if Japan is to maintain its current leading position in the world, it must move toward a society where everyone is able to work in good health for their lifetime. In establishing such a society, regenerative medicine and the robot suit, Hybrid Assistive Limb® (HAL®), will be key.

Recently, there have been important developments in the use of regenerative medicine and HAL® for the treatment of spinal cord injury. At this symposium, the developments in regenerative medicine and HAL® in relation to spinal cord injury were presented. Furthermore, (1) the prospects regarding a radical change in the outcomes of patients with spinal cord injury, thanks to the combination of latest regenerative medicine developments and HAL®, and (2) application of innovative therapy for spinal cord injury to refractory diseases, which will create a path toward a 'zero-bedridden' society, were discussed.

Key words

spinal cord injury, stem cell therapy, robot suit, neurorehabilitation, regenerative medicine

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