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Growth Hormone Deficiency: Molecular Pathologies and Therapeutic Strategies

Guest Editor:

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Message from the Guest Editor

Treatment with recombinant human growth hormone (rhGH) in children and in adults with growth hormone deficiency (GHD) has been used for many years and has an established position when it comes to the principles of introducing therapy, its monitoring, dosage, safety, as well as the effectiveness and benefits of treatment.

Recently, however, GH treatment has become a hot topic again due to the emergence of long-acting GH (LAGH) preparations. The principles of LAGH treatment are still under analysis, and it is necessary to share the results of studies of individual research groups so that endocrinologists can gain experience in this field.

On the other hand, there are increasing amounts of reports on molecular mechanisms and their disorders involved in the transmission of signaling pathways in the GH-IGF-1 axis, both in the CNS, in the pituitary, in hepatocytes, or in the growth plate, which change and modify the secretion of GH and IGF-1.

New findings in this field allow us to define more precisely the type of mechanisms responsible for growth hormone deficiency, helping to identify further diagnostic and therapeutic areas in patients with GH and IGF-1 deficiency.

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Message from the Editor-in-Chief

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