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Molecular Roadblocks for Cellular Differentiation, Transdifferentiation or Conversion

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Message from the Guest Editors

Dear Colleagues,

Homeostasis is a dynamic process. At all stages of life, cell identity is modulated by various factors, usually originating from within the close cellular environment or niche. Cell identity maintenance can therefore be viewed as a dynamic process counteracting the natural trend to change and not a passive/fixed cellular state. The modulation of these cell conversion breaks could prove crucial for treating pathologies characterized by massive cell decay. Moreover, understanding these molecular roadblocks will also improve in vitro differentiation protocols by uncovering molecular inhibitory signals regulating cell fate switches.

This Special Issue in *Genes* on “Molecular Roadblocks for Cellular Differentiation, Transdifferentiation, or Conversion” will address the responding mechanisms to instructive signals, with a focus on molecular brakes regulating cell identity and thus tissue regeneration or cell differentiation, as described in different experimental models.

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Special Issue



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Message from the Editor-in-Chief

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