



## Gonadotropin-Releasing Hormone Receptor Signaling and Functions

Guest Editor:

**Prof. Dr. Zvi Naor**

Department of Biochemistry and  
Neurobiology, Tel Aviv University,  
Ramat Aviv 69978, Israel

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### Message from the Guest Editor

GnRH is the primary hormone which controls the reproductive system in all vertebrates. GnRH binds to its cognate receptor (GnRHR) in pituitary gonadotropes to regulate the synthesis and secretion of the gonadotropins: Luteinizing Hormone (LH) and Follicle Stimulating Hormone (FSH). LH and FSH in turn control gametogenesis and sex hormone production in the gonads. Hence, a novel potential treatment for hormone-independent CaP is required. Indeed, direct apoptotic effects of GnRH-A upon hormone-independent CaP cells (DU-145) has been described, but the magnitude of the effect was not sufficient. Since there is no cure to advanced hormone resistant CaP, new vistas for the development of a therapy is required.





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Granada, Spain

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*International Journal of Molecular  
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MDPI, Grosspeteranlage 5  
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