



Cellular and Viral Immunology of HIV-1 Infection: An Update

Guest Editor:

**Dr. Agustín Valenzuela-
Fernández**

Laboratorio de Inmunología
Celular y Viral, Unidad de
Farmacología, Sección de
Medicina, Facultad de Ciencias
de la Salud, Universidad de La
Laguna (ULL), 38320 La Laguna,
Spain

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Message from the Guest Editor

HIV-1 provokes an extreme immune dysfunction. HIV-1 infection is associated with CD4 lymphopenia and decreased lymphoproliferation together with the impairment of critical immune functions. The immune events, negatively affected by HIV-1, are cytokine and human leukocyte antigen (HLA) expression, cellular chemotaxis, phagocytosis and intracellular killing in cytoplasmic granules, and the observation of neutropenia, reduced natural killer (NK)-mediated cytotoxicity, and B-lymphocyte numbers that produce nonspecific immunoglobulins (Igs) with impoverished antibody (Ab) responses.

Viral control could be the consequence of an interplay between virus infectiveness and immune responses which are conceivably more efficient against HIV-1 bearing non-functional Env. Therefore, this Special Issue is focused on immune and viral events that lead to progression or natural control of HIV-1 infection, especially considering new research works and review articles that update the knowledge in this field.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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