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Complement System Entry Suspense: A Hero or Villain in Rare and Genetic Diseases

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editor

Dear Colleagues,

A complement is a group of about fifty liquid and cell membrane-associated proteins. Complement activation is a complex process largely materializing in three different ways, i.e., through classical, alternative, and lectin pathways. Complement activation using the classical pathway occurs due to the ligation of IgG/IgM immune complexes (ICs) to their receptors and/or C1q, as well as the binding of C1q to certain molecules released from injured cells. The lectin pathway is activated through the binding of the mannan-binding lectin, a serum protein, to mannose-containing carbohydrates or related ficolins to certain carbohydrates or acetylated structures. The alternative pathway can be initiated when a spontaneously activated complement component binds to the surface of a pathogen.

Complement activation and the production of several of its downstream molecules are essential for controlling cellular and metabolic functions. This Special Issue invites original research articles, reviews, and opinions describing the molecular mechanism through which the complement system activates/suppresses and modifies the disease processing of rare and genetic illnesses.

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Message from the Editor-in-Chief

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