Message from the Guest Editor

Discriminating between bacterial and viral infections in children is still a diagnostic dilemma for the clinician. However, the usage of new methodologies has opened up the possibility of exploring genome-wide expression and transcriptional signatures, uncovering activated pathways consisting of many genes associated with either bacterial or viral infection. As there is diversity in the mechanisms of pathogen recognition by specific receptors, and host responses are altered by different microbes, pathogen specific (virus, bacteria, etc.) transcriptional signatures could be translated into useful clinical biomarkers, and thus used for identification.

For this Special Issue, we invite submissions describing new potential biomarkers that could improve the diagnostics of bacterial versus viral infections in children. We welcome reviews and original articles considering novel approaches as well as identifying gaps in knowledge.