

Host genetic analysis for severe COVID-19

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[Research content]

COVID-19 is an imminent threat to Human Society. Currently, there are still huge numbers of new infections around the world, and no effective prevention and treatment methods have been established. Most important point is that COVID-19 is associated with a high risk of death in cases of severe infection, with some people becoming seriously ill and others remaining mild or asymptomatic. Therefore, we perform whole-genome sequencing of severe cases of COVID-19 and mild or asymptomatic infections, and identify risk-associated genetic variants for severe disease by supercomputer analysis.

[Expected results]

If severity factors can be identified, advance genetic testing can help deregulate economic activities for low-risk populations and determine treatment strategies for infected individuals with high-risk factors.

