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# **Protein Solubility and Aggregation**

Guest Editor:

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Deadline for manuscript submissions: closed (31 December 2021)

### Message from the Guest Editor

Dear Colleagues,

Protein solubility and aggregation is a serious problem for protein sciences, pharmaceutical applications, and human health. The level of protein solubility ranges from almost completely insoluble to hundreds of milligrams per milliliter. Amino acids at the surface of a protein may determine the solubility. The structural stability of a protein may be important for solubility. Even a single amino acid mutation may change the solubility of a protein dramatically. External factors such as pH, ionic strength, temperature, mechanical stress, small molecules, etc. also affect the protein solubility. Low solubility would decrease the efficiency of the protein purification and the production vield of protein drugs. Protein aggregation, resulting from protein misfolding, leads to many diseases such as Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, and prion disease, to name but a few.

We invite researchers to contribute original and review articles regarding the protein solubility and aggregation.

Prof. Dr. Han S. Choe *Guest Editor* 









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