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# **Advances in Molecular Cytogenetics**

Guest Editor:

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Deadline for manuscript submissions:

closed (31 May 2023)

### Message from the Guest Editor

Dear Colleagues,

Since its origin many decades ago, classical cytogenetics has been a crucial tool in the life sciences. During this time, technical advancements have been made and applied in both research and diagnostics. In medicine, the obtained results are universally well-known and appreciated.

With cytogenetics, cellular biology improved the knowledge of nucleus, nucleolus, chromosomes, and chromatin, and the advent of molecular cytogenetics confirmed the necessity of continuing the efforts to deepen our knowledge of the molecular bases of genetic diseases.

The aim of this Special Issue is to describe the state-of-theart of cytogenetics and identify its future evolutions.

The main topics that will be treated are:

- The role of conventional cytogenetics in the genomic era;
- FISH: metaphasic and/or interphasic;
- The role of chromosomal microarrays in prenatal diagnosis of fetal structural abnormalities;
- Is fiber FISH the future?
- The applications of advanced cytogenetic techniques in peculiar cases.













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### **Editor-in-Chief**

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