

Special Issue

Diagnostic Probes

Message from the Guest Editor

With the advent of PCR, the molecular diagnosis has played an important role in the diagnostic field. However, the amplification methods based on PCR are not the only option for developing diagnostic probes based on nucleic acids. Interesting approaches, such as the development of biosensors using the hybridization features of nucleic acids, have been successfully explored. Likewise, nucleic acid aptamers have shown their great potential in diagnostics, in this case, using the 3D conformational capabilities of nucleic acids to create recognition molecules similar to antibodies. Another approach uses nucleic acids as substrates for the recognition of nucleases as target biomarkers of disease. This strategy takes advantage of the diversity and variability of nucleases to create substrates with a high specificity and sensitivity for a given nuclease. Thus, nucleic acids offer great flexibility and versatility for designing novel diagnostic probes, and they will most likely lead the diagnostic field in the future. In this Special Issue, we will focus on the nucleic acid diagnostic probes based on amplification, hybridization, aptamers, and nucleic acid substrates.

Guest Editor

Dr. Frank J. Hernandez

Nucleic Acids Technologies Lab, Linköping University, Linköping, Sweden

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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Prof. Dr. Andreas Kjaer

Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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