

Special Issue



New and Old Technologies for Generation of Microarrays

Guest Editor:

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Dear Colleagues,

Microarrays have been the first method of choice for highly parallel DNA and RNA analysis as well as in molecular interaction studies. Even though Next Generation Sequencing (NGS) is believed to soon be able to count each RNA copy in a single cell; microarrays are still irreplaceable, especially in the field of proteins, antibodies and small molecules. Nevertheless the increasing demand in throughput, molecular purity, robustness and effective production leads to improvement of the old techniques of microarray generation and to innovative ideas of 'making' microarrays in completely new ways. Therefore 'the simple act' of Microarray Generation is the focus of this Special Issue "Microarray Generation-Old Paths and New Ways". It will highlight the old and successful paths such as light-synthesis, spot-synthesis and outline future improvements to the reader, but also offer a glimpse into what is emerging at the moment and what is yet to come, i.e., what new possibilities may become available in the not too distant future. You are invited to present new ways of microarray generation, but also to provide proof that the old 'paths' still bear potential for vast improvements.

With best regards,

Dr. Günter Roth Guest Editor

Special Issue Topics

- microarray generation
- DNA synthesis
- RNA synthesis
- protein synthesis
- DAPA
- NAPPA
- PISA
- microarray copying
- light synthesis



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