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DNA Origami and Aptamer Assemblies

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submissions:

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Message from the Guest Editors

Dear Colleagues,

In the last decade, the field of DNA origami has gone from infancy to a field with a suite of building techniques for creating a wide variety of structures. Using DNA building blocks formed into wedges, bricks, and tubes, complex 3D objects can be created. Other methods using fractal assembly or bacteriophages can create complicated machines containing built-in DNazymes to act as molecular scissors to create scaffolds with custom voids, hinges, designer apertures, or even nanorobots. Although creating shapes like a mini Mona Lisa or a rabbit is interesting, the next phase of DNA origami seeks to develop tools that are useful as diagnostic agents or drug delivery vehicles, at a large scale and at a reasonable cost. In this regard, the combination of DNA origami with aptamer assemblies or complimentary aptamer pairs may play a role, as could further developments in predictive software.

In this Special Issue, we welcome original research or review articles on any topic related to “DNA Origami and Aptamer Assemblies”. We look forward to your contributions.

Dr. David Volk

Dr. Varatharasa Thiviyathan

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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