Geometry of self-assembled DNA nanostructures influences in-vitro angiogenesis in HUVECs

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INTRODUCTION

- High Programmability
- Self Assembly
- Chemical Flexibility
- Inherent Biocompatibility

ACT

Endothelial Cells

Materials and Methods

- Tetrahedron (TD)
- Cube
- Icosahedron (ID)
- Buckyball (BB)

Effect of DNs in HUVEC differentiation

Effect of Matrices in HUVEC differentiation

How geometrical parameters of DNA nanostructures influences the differentiation of HUVECs?

References

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Effect of DNs in HUVEC differentiation

Control

TD

ID

Cube

BB

Tubule Length (µm)

Control

TD

ID

Cube

BB

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