

Poster Group	Poster #	Poster Title
I (Presented on 9/23 and 9/25, 5 pm - 6:30 pm)	2	Coarse-grained modelling of DNA hybridization
	3	Timing in chemical reaction networks
	11	Kinetic Digraph Rewrite Systems: Coarse-Grained Models for Dynamic DNA Nanodevices
	12	Complexity and Computability of Temperature-1 Tilings
	22	Approaching Mathematical Model of the Immune Network based DNA Strand Displacement System
	28	The expressive power of the DNA query language DNAQL
	29	BioEthernet: Toward Distributed Packet Switching for Local Cellular Networks
	52	Percolating Properties of Tile Assembly
	55	One-Time, Directed and Catalytic Activation of 1-D DNA Tiles
	60	Complex Dynamics in Random DNA Strand Circuits
	62	Computing Minimum Tile Sets to self-Assemble Patterns in 29 Colors
	69	Towards Persistent Molecular Computers for Molecular Robots
	78	Tiling Simulation of Directed Percolation
	80	Off-lattice Modeling of DNA Nanostructure Shape and Flexibility
	84	Coarse-grained modelling of DNA tile structure and assembly
	85	Temperature 1 Simulation of Temperature 2 aTAM Systems using Active Tiles
	88	A Computer Assisted Design Tool for Dynamic DNA Computation Systems
	89	Coarse-grained simulation model for molecular robot design
	90	Molecular Computational Simulation of Cognitive Processes for Anagram Solving
92	Automatic characterization of the kinetics and error modes of DNA strand displacement networks using Visual DSD	
93	DNA Domino Toppling: Speeding Up DNA Logic Circuits by Localizing Reaction --- Simulation Study ---	
94	Integrated Encoding of Semantic and Orthographic Distances in a DNA Language Model	
106	Configuration Replication in Active Self-Assembly	
107	Fast Arithmetic in Algorithmic Self-Assembly	
108	Sublinear Sorting In The 3-Dimensional Abstract Tile Assembly Model	
109	Intrinsic universality in self-assembly requires cooperation: Temperature 1 self-assembly is weaker than temperature 2	
II (Presented on 9/23 and 9/24, 5 pm - 6:30 pm)	4	Hybridization Kinetics of Multivalent DNA Tiles
	13	Design space for complex DNA structures
	16	Kinetics in a DNA Flatland: Two-Dimensional Crowding Perturbs Hybridization on Single Origami Arrays
	24	Enzyme Confinement and Regulation in a Self-Assembled, Nucleic Acid Matrix
	30	A "Swing Arm"-channeled multienzyme cascade organized by DNA nanoscaffolds
	36	3-Input Majority Logic Gate and Multiple Input Logic Circuit Based on DNA Strand Displacement
	38	Local Hybridization Chain-Reactions on DNA Nanostructures
	43	Connectable DNA logic gates based on crossover tiles
	56	Increase in the number of visible features per sample in fluorescence microscopy by Polychromatic Address Multiplexing
	63	RNA-Protein-based nanostructures and translational switches
	71	Controlled assembly of higher-order DNA origami structures
	73	DNA Pen: A Tool for Drawing on a Molecular Canvas
	74	Fleeting secondary structure effects on hybridization kinetics for DNA nanotechnology/computing
	76	Assembly of cylindrical DNA Origami nanostructures
	81	Aptamers for comparing oranges and apples
	91	New inhibitory architecture for in vitro DNA reaction networks
	95	Precise Structure Switching of Three-State Nanomechanical DNA Origami Devices
	98	DNA logic gates assembled on a two-dimensional DNA scaffold
	100	Switching a bistable DNA circuit electrically
103	Design and Operation of an Autocatalytic Seesaw Gate DNA Network	
110	Dynamic AND Gate Module for RTRACS	
111	DNA Computer-Controlled Gene Expression in a Cell Model Vesicle	
III (Presented on 9/24 and 9/25, 5 pm - 6:30 pm)	7	A Thermal, Autonomous Replicator Made from Transfer RNA
	8	Gold Nanoparticles assembly clusters based on Hairpin DNA
	17	DNA enables the self-assembly of discrete plasmonic nanostructures from one- to two- and three-dimension
	31	Shape-specific fabrication of inorganic nanomaterials directed by programmable DNA nanostructures
	34	Isothermal Self-assembly of DNA Tiles under Diverse and Biocompatible Conditions
	39	Mapping the Thermal Behavior of DNA Origami Nanostructures
	65	DNA hybridization mechanism under different temperature and solvent circumstance
	66	DNA-Cholesterol Rafts as Remote Agents for Exploring and Interacting with Lipid Membrane Systems
	67	Microscopic Structure of DNA Nanotubes
	68	DNA Constructs for Artificial Light Harvesting
	70	DNA Nano-Structure Scaffolded Liposome Formation
	72	Construction of a DNA-based stimuli-responsive microhydrogel
	75	Structure-based Modelling of Biomimetic Light-harvesting Antennas
	77	Synthetic lipid membrane channels formed by designed DNA nanostructures
	79	Development of biophysical tools using DNA origami: Membrane-fusion
	82	Small, highly-active DNAs that hydrolyze DNA
	86	Toward Gel-sol Transition of Hydrogel Driven by DNA Devices
	87	Detection of temperature Changes in HeLa Cells by Thermal-Sensitive DNA
	96	A DNA-Based pH-Responsive Nanocarrier System For Targeted Drug Delivery
97	SERS Plasmonic Enhancement using DNA Origami-based Complex Metallic Nanostructures	
101	Long-Term Operability of a DNA-based Nanomachine in Human Serum	
102	A Leak-Reduction Technique for DNA Strand Displacement Circuits	
104	Crystal Resolution Dependence on Sticky Ends and 5'-Phosphates in Self-Assembled Two-Turn DNA Tensegrity Triangles	
105	Triplex Formation on a Tensegrity Triangle Motif	