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## Self-assembled structures and applications of DNA hybrid materials

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## List of Abbreviations

$\delta$ (NMR-Spectrum)	Chemical shift in ppm
$\epsilon$ (Spectroscopy)	Molar extinction coefficient
$\lambda$ (Spectroscopy)	Wavelength / nm
A (Nucleobase)	Adenine
AFM	Atomic/scanning force microscopy
AIEX	Anion exchange (in chromatography)
C (Nucleobase)	Cytosine
CCMV	Cowpea Chlorotic Mottle virus
CEPA	$\beta$ -Cyanoethyl phosphoramidite
CMC	Critical micelle concentration
CMT	Critical micelle temperature
CP	Coat protein or capsid protein
d (NMR-Spectrum)	Doublet
DBC	DNA block copolymer
DCM	Dichlormethan or methylene chloride
DLS	Dynamic light scattering
DMF	<i>N,N</i> -Dimethylformamide
DMSO	Dimethylsulfoxide
DMT	Dimethoxytrityl
DNA	Deoxyribonucleic acid
ds	Double-stranded
dNTP	Nucleoside triphosphate
dTTP	Thymidine triphosphate
EDTA	Ethylenediaminetetraacetic acid
FDA	Food and drug administration
FET	Field-effect transistor
FD	Field desorption
FPLC	Fast protein liquid chromatography
FRET	Förster (or fluorescence) resonance energy transfer
G (Nucleobase)	Guanine
GPC	Gel permeation chromatography
HIV	Human immunodeficiency virus
IR	Infrared
J (NMR-Spectrum)	Coupling constant / Hz
LCST	Lower critical solution temperature
LNA	Locked nucleic acid
m (NMR-Spectrum)	Multiplett
MALDI-TOF	Matrix assisted laser desorption/ionization time-of-flight

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MS	Mass Spectrometry
m/z	Mass to charge ratio
NMR	Nuclear magnetic resonance
ODN	Oligodeoxyribonucleotide or oligonucleotide
PAA	Poly(acrylic acid)
PB	Poly(butadiene)
PAGE	Polyacrylamide gel electrophoresis
PCR	Polymerase chain reaction
PEG or PEO	Poly(ethylene glycol) or poly(ethylene oxide)
PEI	Poly(ethyleneimine)
PLGA	Poly( <i>D,L</i> -lactic-co-glycolic acid)
PLL	Poly( <i>L</i> -lysine)
PNA	Peptide nucleic acid
PNIPAM	Poly( <i>N</i> -isopropylacrylamide)
PPE	Poly( <i>p</i> -phenyleneethynylene)
PPO	Poly(propylene oxide)
PS	Poly(styrene)
RNA	Ribonucleic acid
ROMP	Ring opening metathesis polymerization
ROX	6-Carboxylic-X-rhodamine
RT or r.t.	Room temperature
s (NMR-Spectrum)	Singlet
SDS-PAGE	Sodium dodecyl sulfate polyacrylamide gel electrophoresis
SEC	Size exclusion chromatography
siRNA	Small interfering RNA
SNP	Single nucleotide polymorphism
ss	Single-stranded
t (NMR-Spectrum)	Triplet
T (Nucleobase)	Thymine
TAE	Tris / Acetate / EDTA Buffer
TBE	Tris / Borate / EDTA Buffer
TBP	TATA-binding protein
TEM	Transmission electron microscopy
THF	Tetrahydrofuran
Tris	tris(hydroxymethyl)aminomethane buffer
U (Nucleobase)	Uracil
UV-Vis	Ultraviolet Visible light
VC	Virus capsid, syn. Virus-like particle