DNA-Synthesizer	Model: Unit and Room:		Expedite [™] Nucleic Acid Synthesis System 8909 Org./Bioorg. Chemistry, 1st floor, R.221F
	Respons		Prof. W. Bannwarth, A. Kienzler
	Fui informa	rther	
Short Description:		Picture of the Equipment	
The Expedite [™] 8909 Nucleic Acid Synthesis System is an economical, versatile platform that synthesizes DNA and RNA oligonucleotides with fast cycle times and a low cost-per-base ratio. The system is ideal for synthesizing short primers and probes as well as sequences up to 100-mers in scales ranging from 50 nmol to 15 µmol. The basic Expedite 8909 system features independently controlled, simultaneous dual-column synthesis.			
Available Experiments/Techniques:			
The DNA synthesis is performed using ß- cyanoethyl phosphoramidite chemistry. Since the synthesizer has 9 positions for the insertion of phosphoramidites it is possible to synthesize DNA/RNA hybrids. Furthermore modified nucleotides can be inserted and directly coupled during the automated synthesis.			
Special Equipment:			
Measurements on the equipment are currently done by:		□St ⊠St ⊠Tr	udents udents after Introduction udents after extensive training ained scientific service ersonal
Recent Publications, where this instrument was important (optional): Give citation		D. Altevogt, A. Hrenn, C. Kern, L. Clima, W. Bannwarth, I. Merfort, Org. Biomol. Chem., 2009, 7, 3934 - 3939 L. Clima, W. Bannwarth, Helv. Chim. Acta, 2008, 91, 165-175	
Typical problems that may be solve instrument:	ed with this	Synt	hesis of modified and non modified -strands. Synthesis of DNA/RNA

Methods, IOCBC, Bannwarth