



Oligos: Papers featuring Genevac product use from 2021 to present

1. [label-free-evaluation-of-short-oligonucleotide-bound-alginate-hydrogels-using-circular-dichroism-spectroscopy.pdf](#)

- A 400 MHz Bruker IconNMR™ Spectrometer was used to acquire ¹H NMR and ¹³C NMR spectra of the hydrogels. The hydrogels were prepared by drying the cleaned product from 2.2 at 50 °C using a Genevac™ miVac centrifugal concentrator.

2. [Design and Application of Mini-libraries of miRNA Probes for an Efficient and Versatile miRNA-mRNA Cross-linking - Malinowska - 2021 - Chemistry – A European Journal - Wiley Online Library](#)

- After basic deprotection and cleavage of the oligoribonucleotides from the solid support, the CPG was filtered and washed with 3×200 µL of water/EtOH (1 : 1) mixture. 20 µL of 1 N Tris-base was added to the filtrate and it was evaporated in a SpeedVac (miVac duo SpeedVac, Genevac).

3. [Acid-Catalyzed RNA-Oligomerization from 3',5'-cGMP - Wunnava - 2021 - Chemistry – A European Journal - Wiley Online Library](#)

- To test the effect of various ions and pH, test ions were added to the monomer solution in required stoichiometry prior to drying. The solutions were then dried in a centrifugal vacuum evaporator (Genevac EZ-2 Elite) at 80 °C for 20 h. The drying time was found to be ca. 2 h for 1 mL solution, thus the 20 h of vacuum drying includes ca. 2 h of drying followed by ca. 18 h of incubation in the dry state.

4. [INTASYL self-delivering RNAi decreases TIGIT expression, enhancing NK cell cytotoxicity: a potential application to increase the efficacy of NK adoptive cell therapy against cancer | Cancer Immunology, Immunotherapy](#)

- The purified oligonucleotides were desalted using Sartorius Vivaspin 15 R (5000 MWCO) centrifugal concentrators and evaporated to dryness on a GeneVac Personal Evaporator (SP Industries, Warminster, PA, USA)

5. [Quantification of synthetic errors during chemical synthesis of DNA and its suppression by non-canonical nucleosides | Scientific Reports](#)

- Cleavage from the CPG solid support was performed using 28% ammonium hydroxide for 1 h at room temperature and removal of the base-protecting group was then carried out for 12–16 h at 55 °C. After the removal of ammonium hydroxide by miVac Duo centrifuge evaporator (Genevac, Ipswich, UK), the crude mixture of oligonucleotides was purified on Sep-Pak Plus C18 cartridge (Waters, US). Oligonucleotides were used without further purification unless otherwise noted.



Oligos: Papers from 2021 to present (Continued)

6. **Molecular beacons with oxidized bases report on substrate specificity of DNA oxoguanine glycosylases - Chemical Science (RSC Publishing) DOI:10.1039/D1SC05648D**

- The resulting oligodeoxynucleotide solution was reduced to a volume of 500 µL using a Speed-Vac concentrator (Genevac Ltd, UK).

7. **Genome-wide mapping of 5'-aldehyde terminus induced by reactive oxygen species | bioRxiv**

- The deprotection of modified ODNs was carried out with 30% aqueous NH₄OH at ambient temperature for 16 hours. After decanting the supernatant from the CPG support, 50 µL of triethylamine (TEA) was added. The mixture was concentrated to dryness in a MiVac centrifugal evaporator (Genevac).

8. **Complete biosynthesis of the potent vaccine adjuvant QS-21 | Nature Chemical Biology**

- Each sample supernatant was defatted by partitioning once with 400 µL of hexane. The lower aqueous phase was dried under vacuum at 45 °C for 1.5 h (EZ-2 Series Evaporator, Genevac). Dried material was resuspended in 130 µL of 80% methanol, filtered at 12,500g for 30 s (0.2 µm; Spin-X, Costar) and used for LC-MS analysis.

9. **Highly efficient on-DNA amide couplings promoted by micelle forming surfactants for the synthesis of DNA encoded libraries - Chemical Science (RSC Publishing) DOI:10.1039/D1SC03007H**

- An aliquot of acid solution (60 µL, 0.25 M in NMP) was added to a 50 µL glass insert for a Paradox™ 96-well micro photoredox/optimisation plate. The NMP was then removed at 55 °C in a Genevac for 60 min.

10. **Diversity-oriented synthesis encoded by deoxyoligonucleotides | Nature Communications**

- This organization was achieved through a semi-automated process of Tecan-guided dissolution in a highly volatile solvent (or solvent mixture), followed by transfer and gentle solvent removal using a Genevac HT-12 centrifugal evaporator. Building blocks were stored in a Hamilton robotic tube handler as dry powder/oil in roughly 1 mg portions.