

PICCOLO/ QUART



0,2/
0,25 L

DEMI



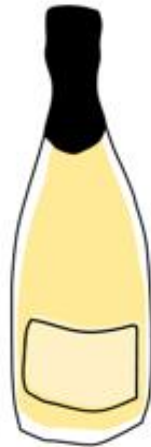
0,375 L

BOUTEILLE



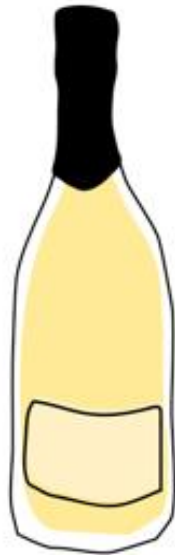
0,75 L

MAGNUM



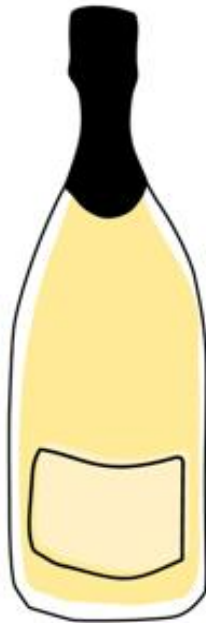
1,5 L

JEROBOAM



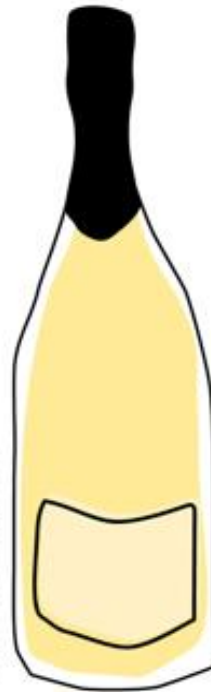
3 L

REHOBOAM



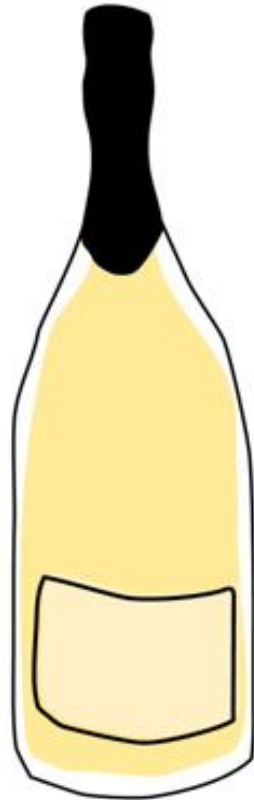
4,5 L

METHUSALEM



6 L

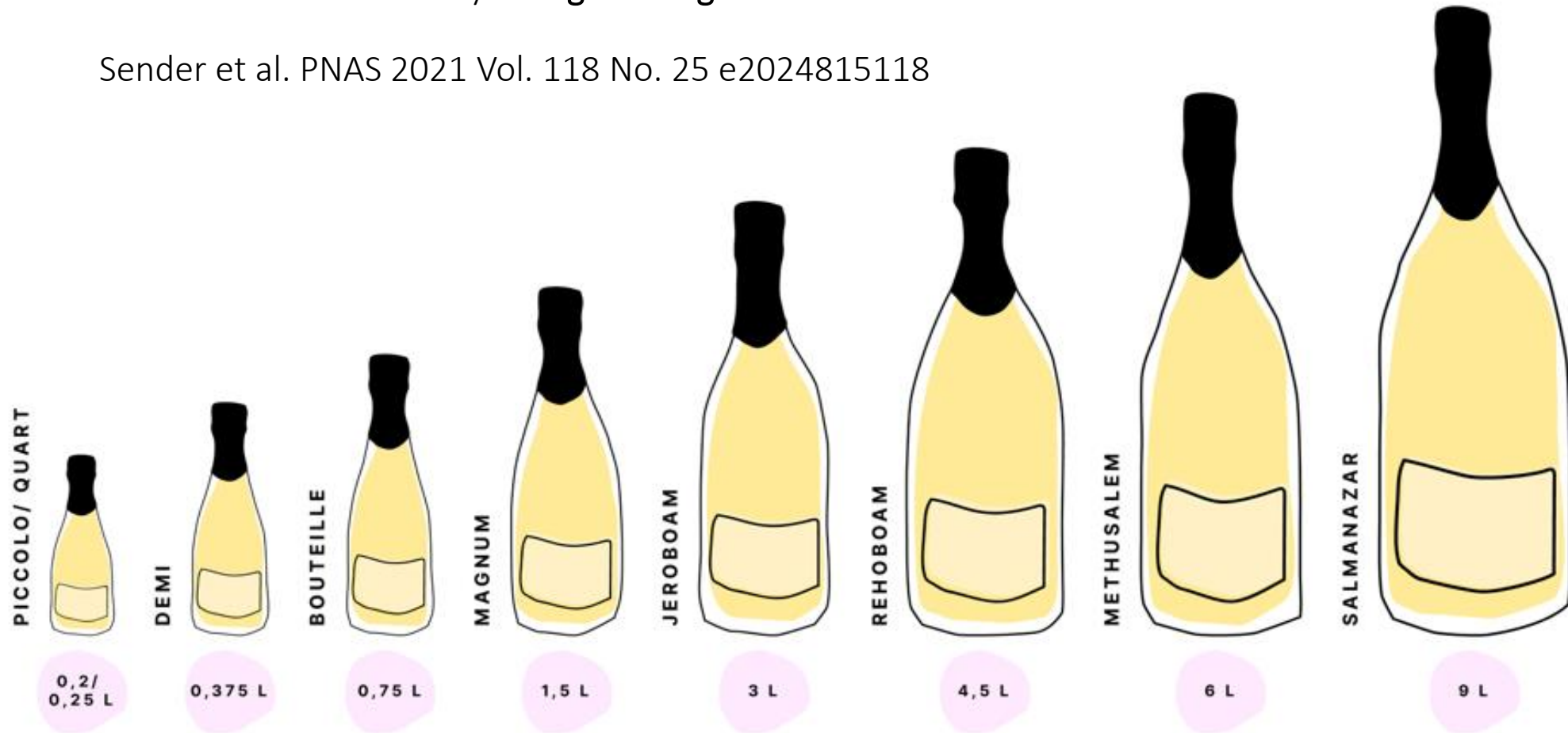
SALMANAZAR



9 L

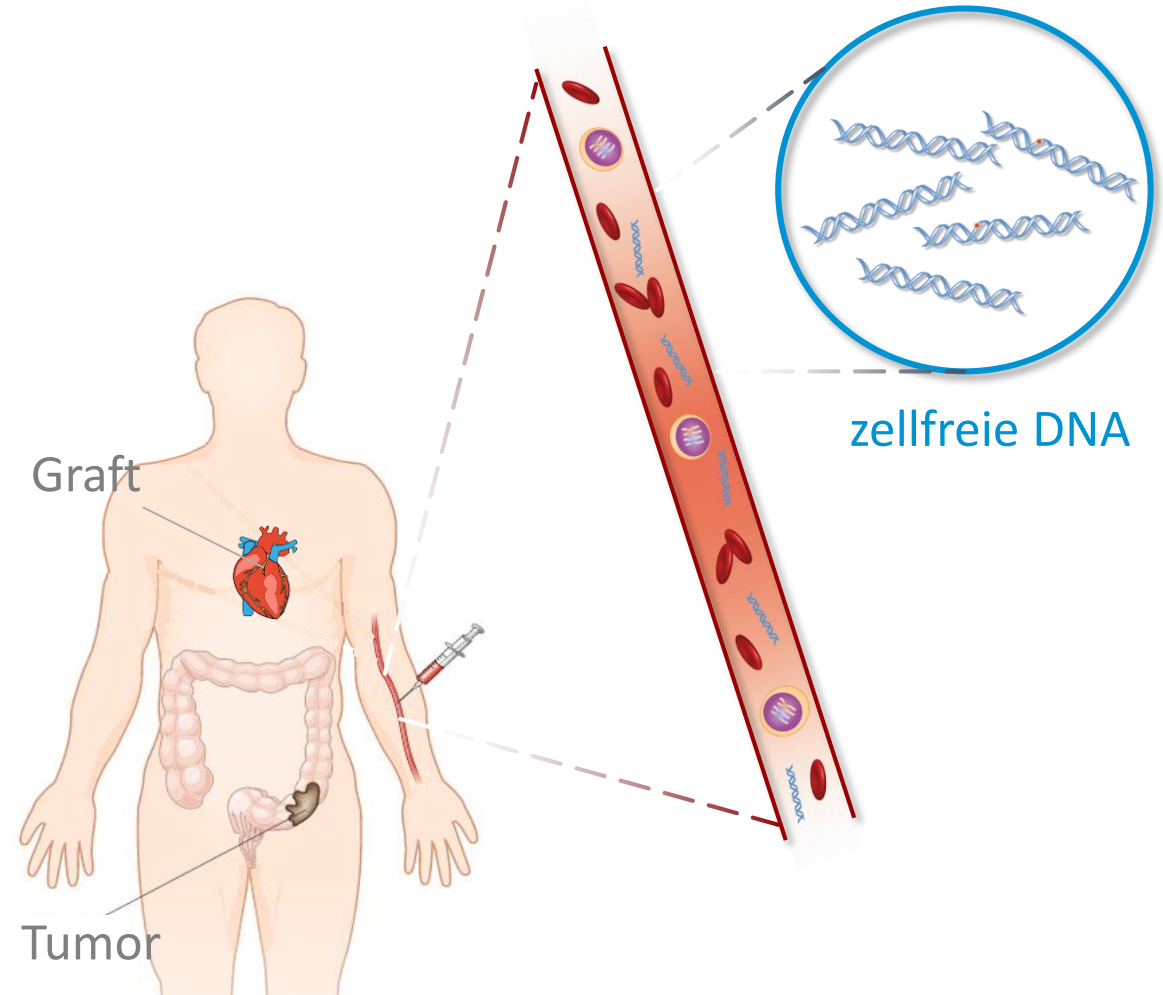
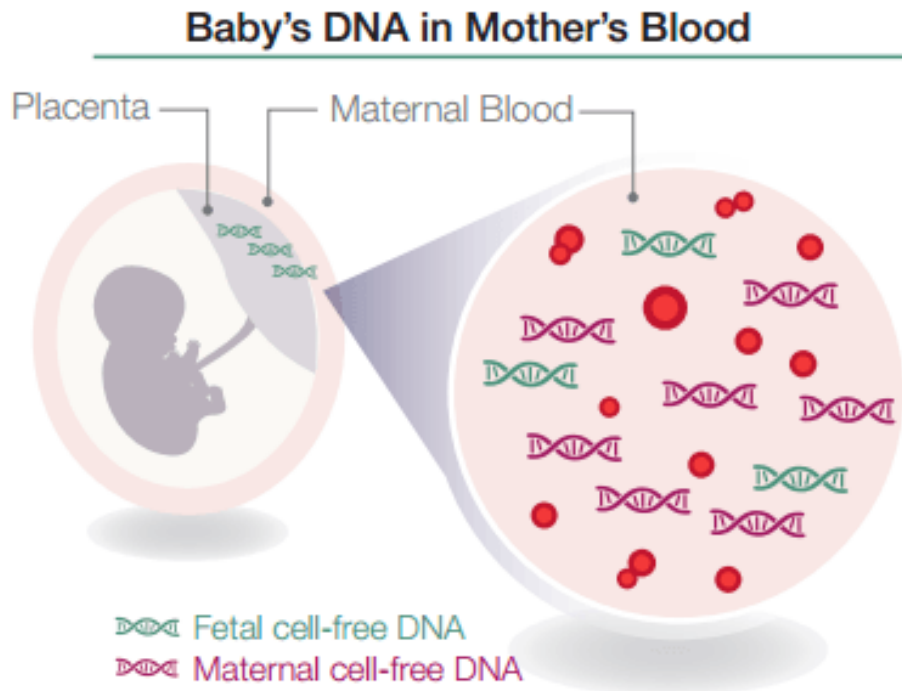
«We estimate that each infected person carries 10^9 to 10^{11} virions during peak infection, with a total mass in the range of 1 μg to 100 μg , which curiously implies that all SARS-CoV-2 virions currently circulating within human hosts have a collective mass of only 0.1 kg to 10 kg»

Sender et al. PNAS 2021 Vol. 118 No. 25 e2024815118



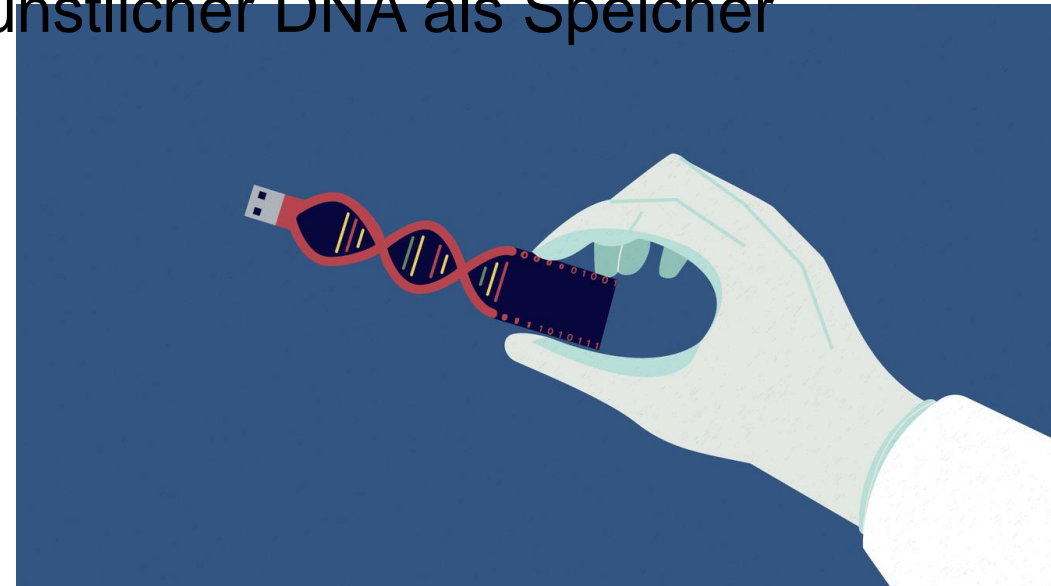
Diagnostische Applikationen zellfreier DNA (cfDNA)

- Diagnostik: cfDNA aus Geweben mit genetischen Unterschieden zur Keimbahn
 - Pränatal (fötale DNA =cffDNA))
 - Tumor (=ctDNA)
 - Transplantat



Adapted from: Meador & Lovly *Nat Med* (2015)

Alle Daten der Welt in einem Kaffeebecher? – Das ginge, mit künstlicher DNA als Speicher

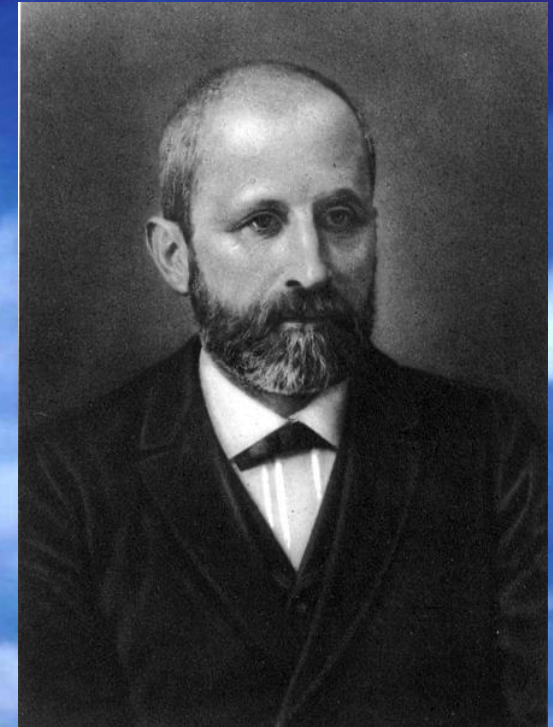


(NZ, 09.07.2021, Uta Neubauer (Text), Charlotte Eckstein (Illustration))

	Zugriffszeit	Haltbarkeit
Flash Speicher	Millisekunde	ca. 5 Jahre
Festplatte	10 Millisekunden	ca. 5 Jahre
Magnetischer Speicher	Minuten	ca. 30 Jahre
DNA	mehrere Stunden	Jahrhunderte

 **INSELSPITAL**

UNIVERSITÄTSSPITAL BERN
HOPITAL UNIVERSITAIRE DE BERNE
BERN UNIVERSITY HOSPITAL



*Glückwünsche zur Einweihung des
Nukleinsäureanalytik-Labors!*