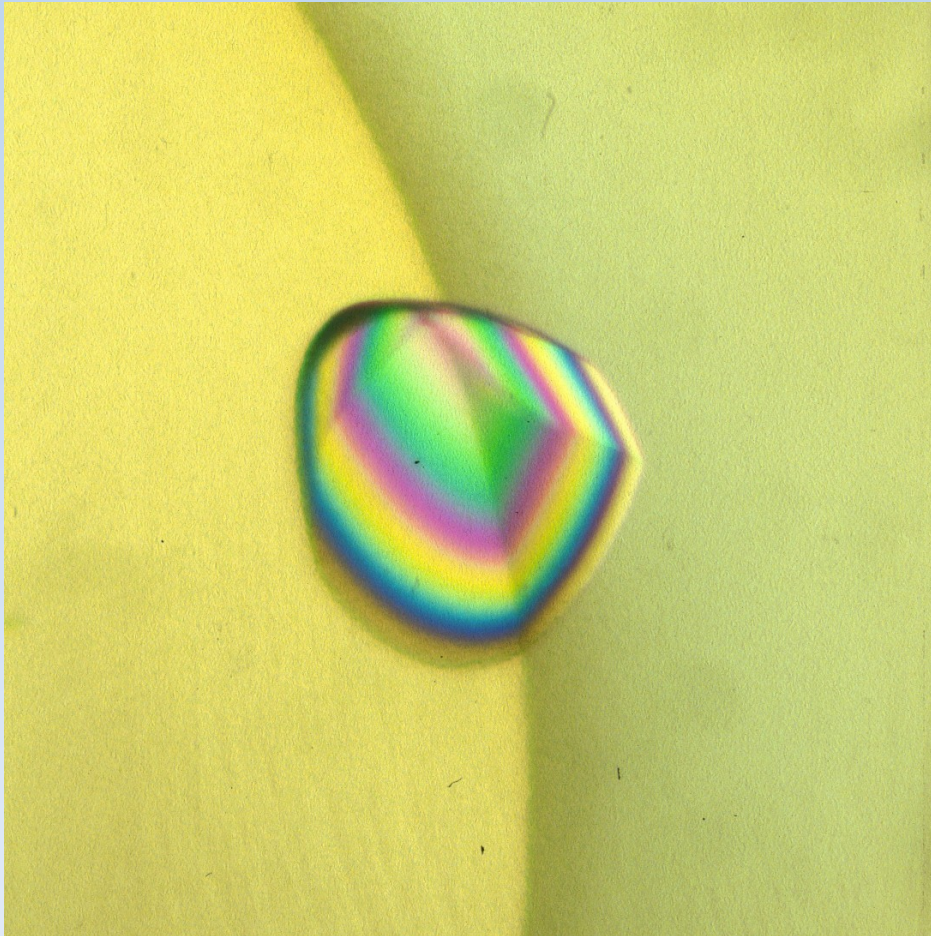
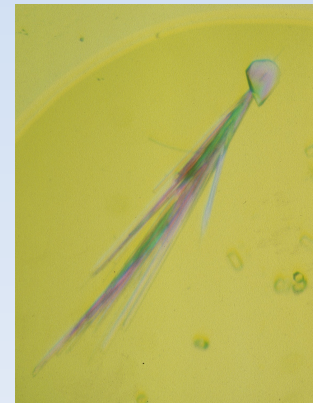
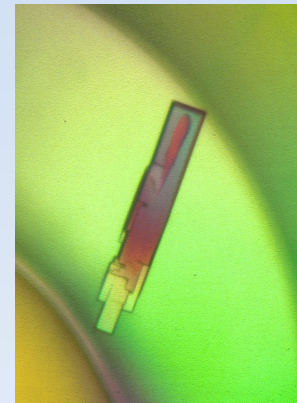
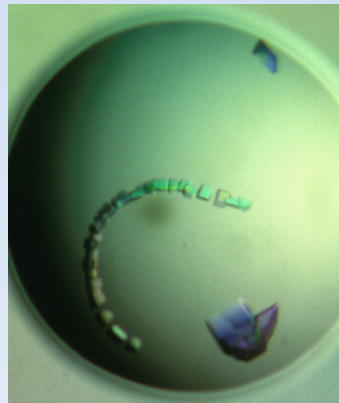


- Kristalų auginimas

Pavyzdžio paruošimas – kristalinimas



- Tinkami RA:
 - 50 – 500 μm dydžio monokristalai

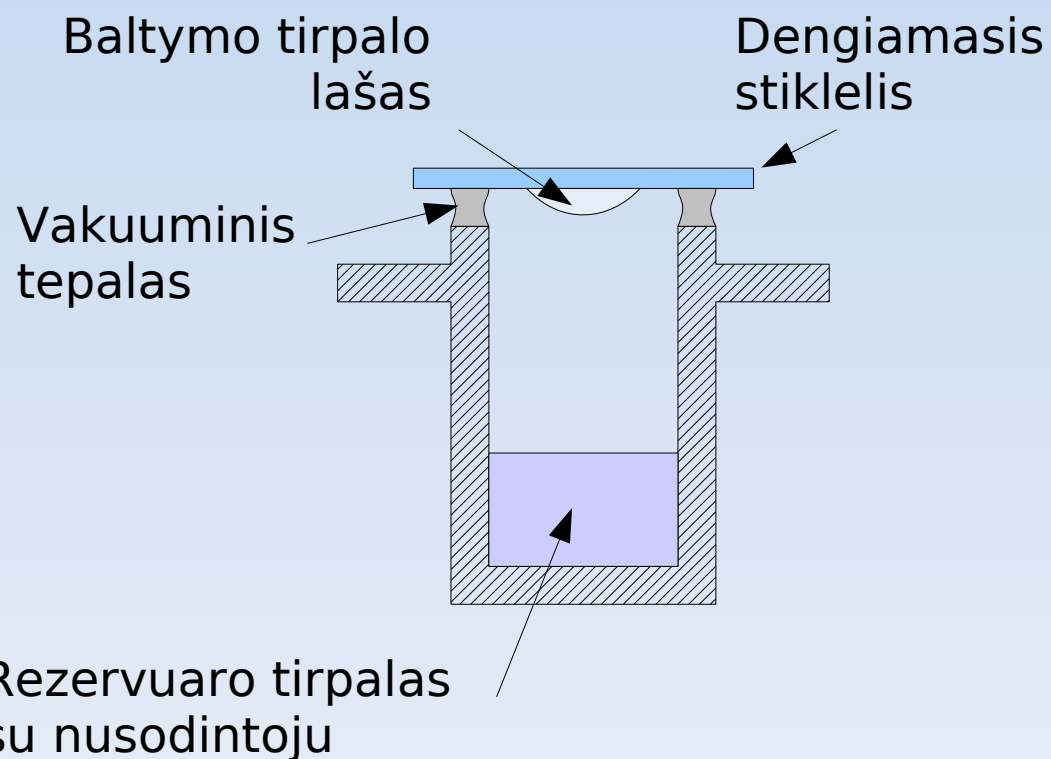
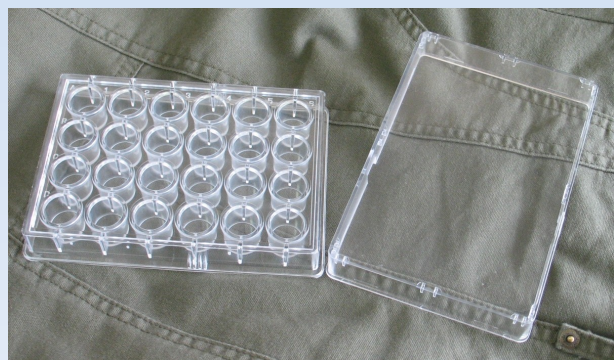
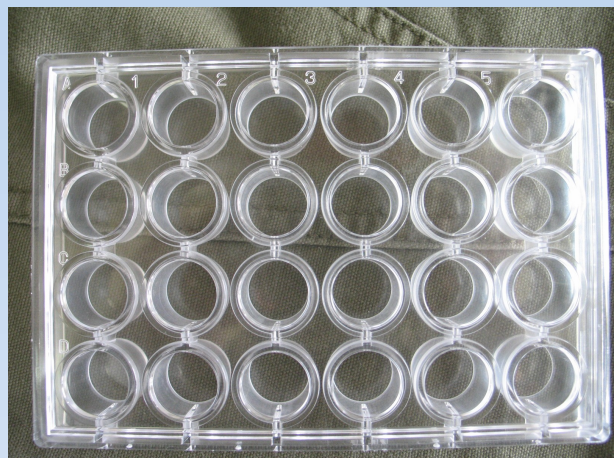


Baltymo poreikis kristalinimui.

Baltymo kiekis	1-100 mg
Baltymo koncentracija	0.01 – 1.0 mM
x 50 kDa ...	0.5 – 50 mg/ml
Lašo dydis	0.5 – 4 μ l
Lašų skaičius	100 – 1000 - ...

Kristalinimo metodai

- Kabančio lašo garų difuzija

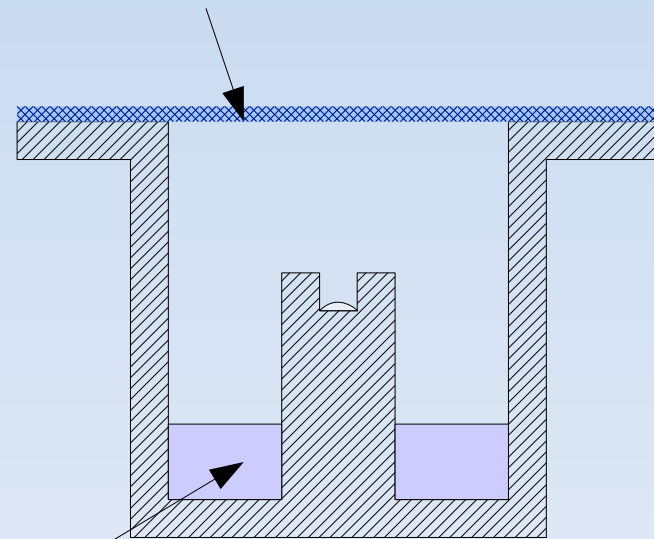


Kristalinimo metodai (2)



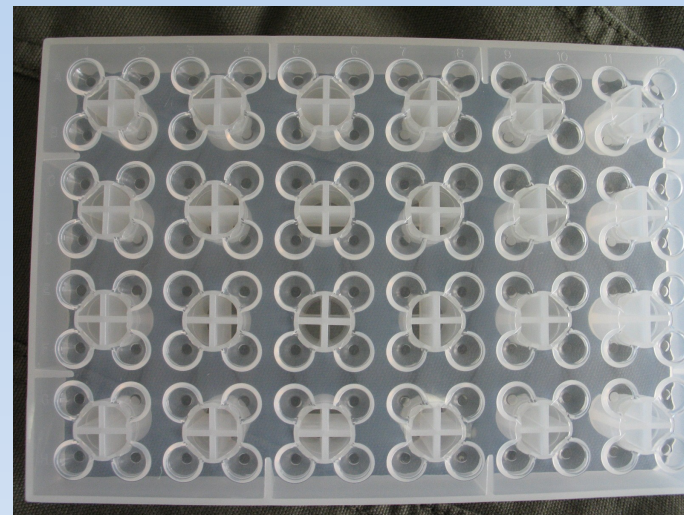
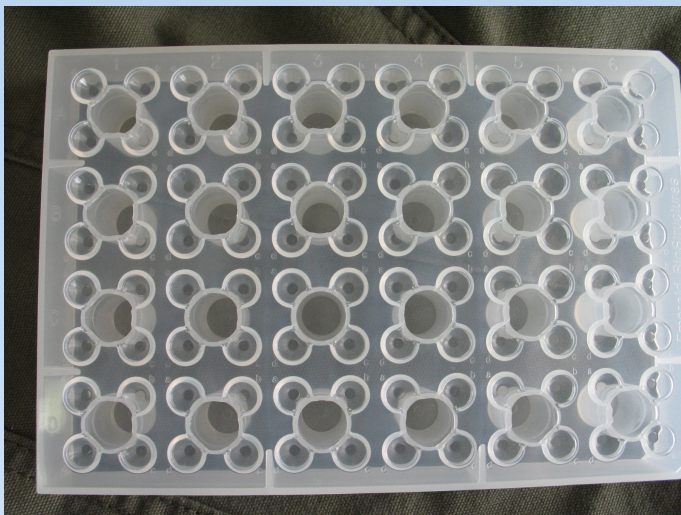
- „Tupinčio“ lašo garų difuzija

Skaidri lipni plėvelė

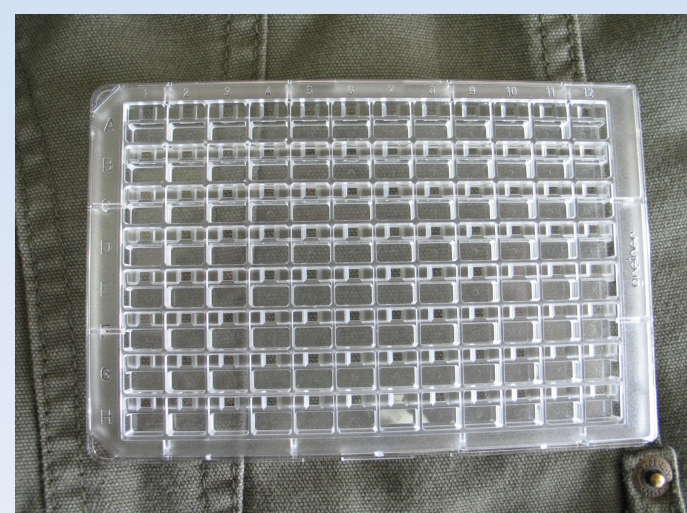
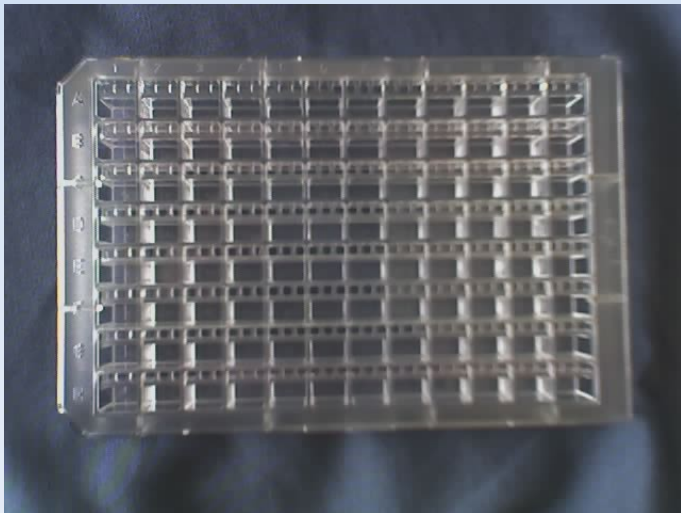
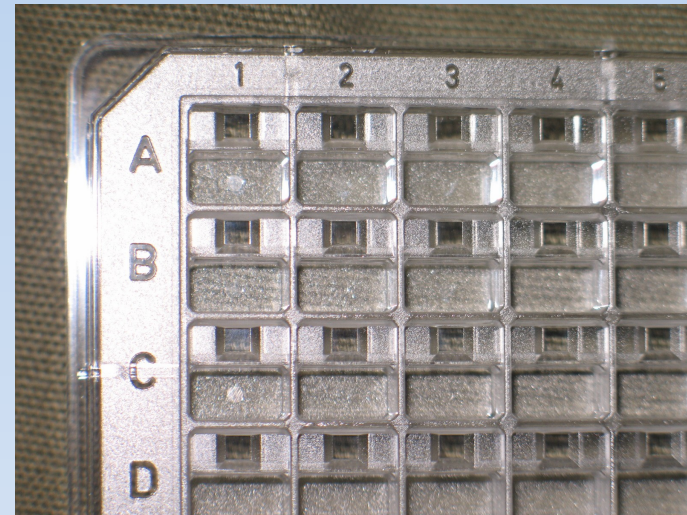
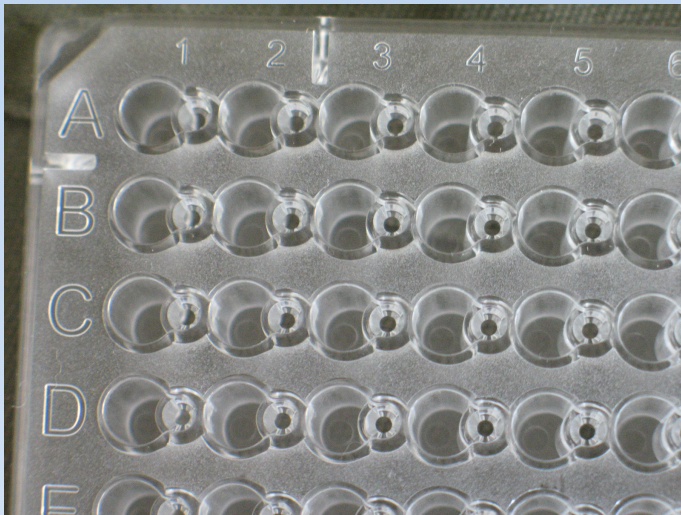


Rezervuaras
su nusodintoju

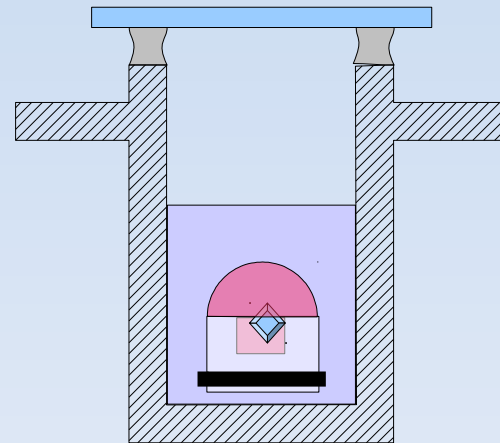
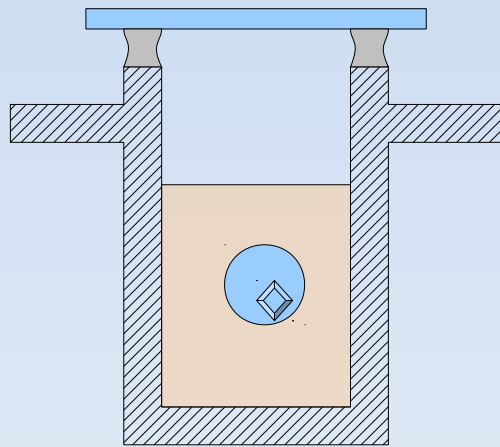
Kristalinimo metodai (3)



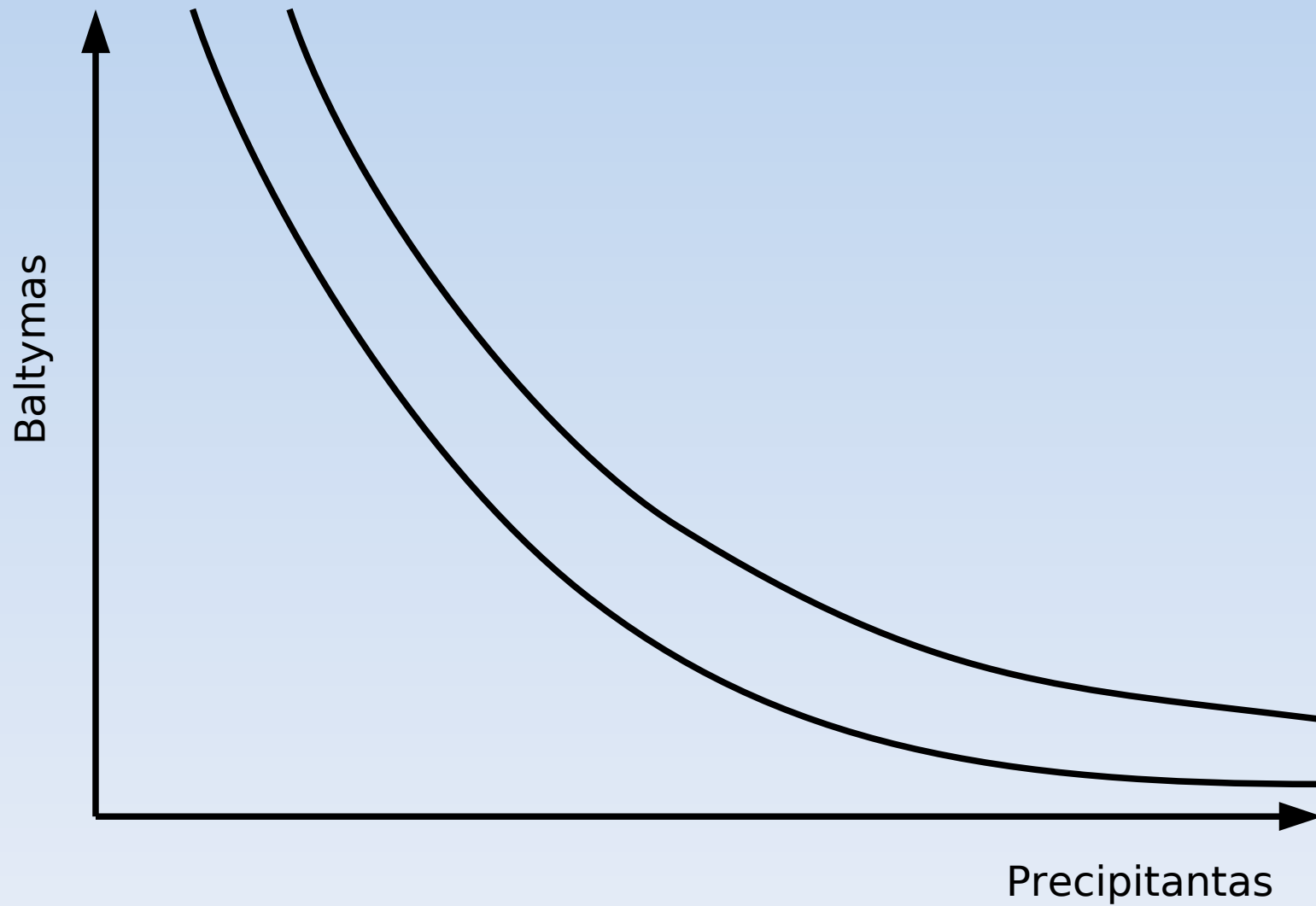
Kristalinimo metodai (4)



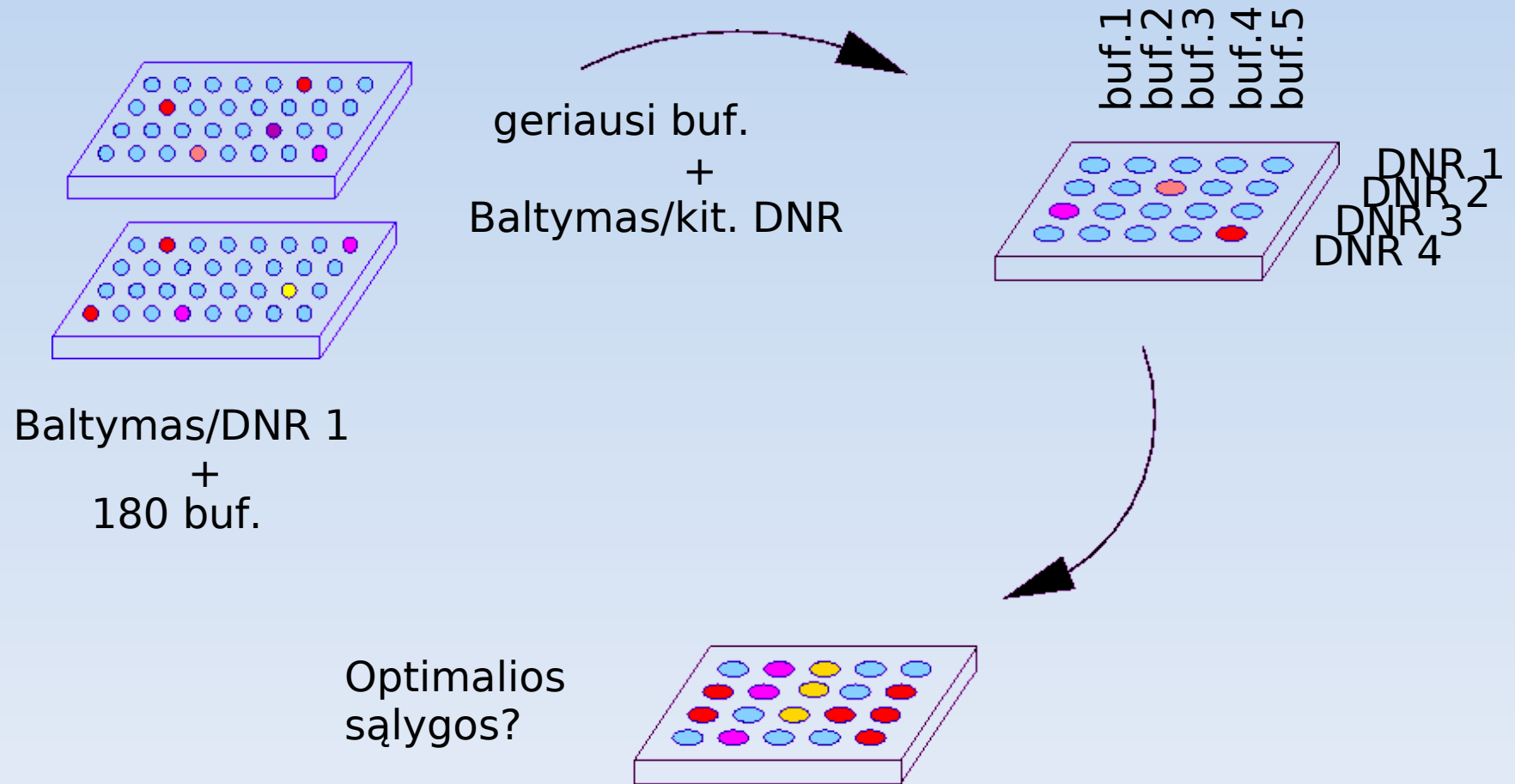
Kristalinimo metodai (5)



Kristalizacijos procesas



Kristalinimas

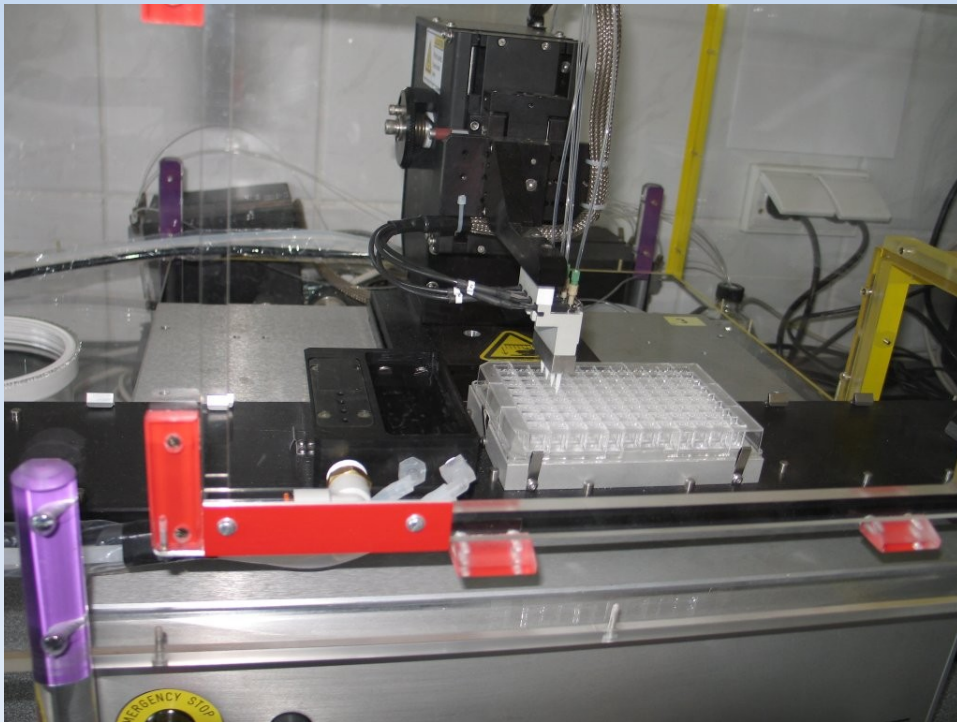


Kristalinimo sąlygų parinkimas

- Tipiški kristalinimo buferiai. Faktorialai, faktorialiniai eksperimentai.
 - - *Jankaric & Kim*
 - J. Jankaric & S.H. Kim, J. Appl. Cryst. 23 (1991) 409
 - - *Carter & Carter*
 - C. Carter, Jr. *et al.*, J. of Cryst. Growth 90 (1988) 60
 - - <http://www.hamptonresearch.com/>

Kristalinimo automatizavimas

- Kristalinimo robotai.



Turimos RA priemonės

- RU-H3R
Rentgeno
spindulių
generatorius
(Cu $K\alpha$)
- Raxis IV++
- Osmic veidrodžiai



MM-007HF mikrofokuso generatorius



- MM-007HF
generatorius
(Cu $K\alpha$)
- Raxis IV++
detektorius
- Varimax
veidrodžiai