Recombinant Idiotype Vaccination for Malignant Lymphoma

1) Biopsy

2) A-PCR V_H + V_L cloning, construction pFab

3) Fab expression in E. coli

4) Vaccine formulation

5) Immunization

Induction of specific immune response

APC

Lymphoma cell

Lymphoma-specific idiotype

Phase II Idiotype Vaccination Trial: Recombinant Fab / Adjuvant + GM-CSF

Diagnosis: Non-secreting B-NHL, normal CD4 Tc + Ig levels
A: Untreated "Watch and Wait"
B: CR/PR after systemic therapy

CellGenix GmbH

Vaccine Production

Chemo

Vaccination

500 ug Fab / MF59 i.d.

250 ug Sargramostim s.c.

Gen-HB-Vax

Month
1 2 3 4 5 6 7 8 9 10 11 12

Biopsy
Staging
Immune Res
MRD
anti-HBs

X X X X X X X X