docrine pancreas tumors, carcinoid tumors and carcinoid syndrome, multiple endocrine neoplasias, bone and soft-tissue sarcomas, mesotheliomas, skin tumors, melanomas comprising cutaneous and intraocu- lar melanomas, tumors of the central nervous system, tumors during infancy, comprising retinoblastoma, Wilms tumor, neurofibromatosis, neuroblastoma, Ewing sarcoma tumor family, rhabdomyosarcoma, lymphomas comprising non- Hodgkin lymphomas, cutaneous T cell lymphomas, primary lymphomas of the central nervous system, morbus Hodgkin, leukemias comprising acute leukemias, chronic myeloid and lymphatic leukemias, plasma cell neoplasms, myelodysplasia syndromes, paraneoplastic syndromes, metastases with unknown primary tumor (CUP syndrome) , peritoneal carcinomatosis, immunosuppression-related malignancy comprising AIDS-related malignancy such as Kaposi sarcoma, AIDS- associated lymphomas, AIDS-associated lymphomas of the central nervous system, AIDS-associated morbus Hodgkin and AIDS-associated anogenital tumors, transplantation- related malignancy, metastasized tumors comprising brain metastases, lung metastases, liver metastases, bone metastases, pleural and pericardial metastases, and malignant ascites.

16. A concatemeric molecule for the modulation of the activity of the human or animal immune system manufactured by a method comprising the steps of

- providing a 5'-phosphorylated deoxyribonucleic acid molecule in water,
- lyophilisation at 50°C until a dry residue is received and subsequent resuspension in a buffer,
- adding a T4-DNA-ligase, forming a reaction mixture and
- incubation of the reaction mixture at 37°C for at least 30 minutes.

17. A concatemeric molecule for the modulation of the activity of the human or animal immune system manufactured by a method comprising the steps of

- providing a deoxyribonucleic acid monomer after precipitation and subsequent drying of the precipitate at 50°C,
- adding a T4-DNA-ligase, and

~~incubation of the reaction mixture at 37°C for at least 10 minutes, preferably~~ for at least 30 minutes.

18. The concatemeric molecule according to claim 16, wherein before lyophilisation the deoxyribonucleic acid molecule is purified by polyacrylamide gel electrophoresis or by a combination of HPLC and FPLC.

19. ~~The concatemeric molecule according to any of the claims 16 to 18, wherein the lyophilisation or precipitation is carried out in the presence of magnesium chloride.~~