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12th meeting on mammary cancer in experimental animals & man

Bibl. Hoofdkantoor TNO 's-Gravenhage

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title: Mammary tumor virus expression in F1 hybrid negative mouse strains	s of virus	
Authors: P. BENTVELZEN, Radiobiological Institute TNO, Rijswijk, The Netherlands		
A number of mouse strains kept in our institute were screened for release		
of the MuMTV envelope glycoprotein gp52 in the milk. The strains C3Hf,		
DBA/2, GR and SJL were positive in this assay, while AKR, BALB/c, C57BL,		
CBA, ND2 and RFM were negative in this respect. So	everal Fl hybrid	ds were
also tested for gp52 in the milk. A surprising rea	sult was the emo	ergence of
virus positive animals in the crosses between BAL	B/c and AKR, RF1	M or ND2.
Back-crosses to either virus negative parent resu	lted in an appr	oximately

Back-crosses to either virus negative parent resulted i 50% reduction of virus positive animals. These results are compatible with the hypothesis that in the BALB/c a recessive gene inhibits virus release, whereas in the AKR, RFM or ND2 another recessive gene does the same. Probably the two separate genes control different processes which do not allow the synthesis of MuMTV polypeptides.