

IDENTIFICATION IN BLOOD STAINS THROUGH DNA
TYPING WITH C4 AND HLA-DR PROBES.

B.Ølaisen , B.Mevåg , R.Jonassen ,
G.Paulsen , E.Thorsby , P.Teisberg .

Institute of Forensic Medicine, Institute
of Transplantation Immunology, and Medical
Department, University of Oslo,
Rikshospitalet, Oslo

A restriction fragment length polymorphism (RFLP) analysis using double digestion of DNA preparations with XbaI and EgII restriction enzymes is presented. In our panel of 46 unrelated individuals 37 different phenotypic patterns were recognized when using C4 and HLA-DR probes. The preliminary discriminative power value when employing both probes (consecutively or simultaneously) is 0.985. In 6 months old blood stains from 7 of the panel members the RFLP patterns were well preserved both in C4 and HLA-DR. The stains from all these individuals were identified when comparing stain DNA patterns with panel control patterns. Based on these laboratory experiments, it is concluded that DNA typing with such probes may become a powerful tool in future stain identification analysis.

V. Stains

