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| Nota di contenuto       | CATALYTIC ANTIBODIES; Contents; Introduction; A catalytic antibody uses a multistep kinetic sequence; Structural aspects of antibodies and antibody-antigen complexes; Nuclear magnetic resonance studies of antibody-antigen interactions; Modelling antibody combining sites: a review; Approaches to the design of semisynthetic metal-dependent catalytic antibodies; Construction of combinatorial antibody expression libraries in <i>Escherichia coli</i> ; Catalytic antibodies: contributions from engineering and expression in <i>Escherichia coli</i><br>The generation of antibody combining sites containing catalytic residues<br>General discussion I; Screening combinatorial antibody libraries for catalytic acyl transfer reactions; Binding and multiple hydrolytic sites in epitopes recognized by catalytic anti-peptide antibodies;<br>Antibody catalysis of carbon-carbon bond formation; Characterization of the mechanism of action of a catalytic antibody; Catalytic antibodies: a new window on protein chemistry; Expanded transition state analogues; Tritylase antibodies; Final general discussion : How good are catalytic antibodies?<br>Potential uses of catalytic antibodies<br>Summary; Index of contributors; |

## Subject index

### Sommario/riassunto

Contains the presentations and discussions that took place during a symposium at the CIBA Foundation on October 1-3, 1990 on the subject of catalytic antibodies. The recognition that monoclonal antibodies can possess catalytic activity is a recent advance with profound ramifications for chemistry. In addition to their potential commercial applications as catalysts for reactions, for which there are no known enzymes, antibodies promise to provide valuable insight into the detailed mechanisms of biological catalysis and organic chemistry.