

## 10.4 Electrophilic Reactions

**General Introduction** An electrophile is an electron-seeking species, reacting with a lone pair or a double bond.

### Electrophilic Substitution

Electrophilic Substitution reactions are reactions in which an electrophile reacts with a nucleophile.

- It forms an electron-deficient intermediate (an  $\sigma$  complex) in which the electrophile is bonded to the ring.
- The intermediate is a carbocation of the ring and the electrophile is now bonded to the ring.

Electrophilic Substitution reactions are reversible and are controlled by thermodynamic factors.

- The first step is the rate-determining step (the slowest step) in the reaction.
- The final step is the loss of a proton from the intermediate to form the product.

When reacting benzene with an electrophile, the following equations apply:

### General Reaction: Electrophilic Substitution

- In the following mechanism, a benzene ring reacts with an electrophile  $E^+$  to form a carbocation intermediate. The electrophile is a  $Br^+$  ion.
  - Write down the mechanism for the reaction of benzene with a  $Br^+$  ion.
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### Reaction

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**AW Chickering**



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Cross-Reactive Immunity and COVID-19 Alberto Beretta, Ahmed Yaqinuddin, Aristo Vojdani, Pedro A. Reche, 2025-01-06  
There is a growing evidence that cross reactive immunity from common human coronaviruses hCoVs can shape the immunological response to SARS CoV 2 Cross reactive T cells appear to play a protective role against disease but there is no consensus on the role of cross reactive antibodies with some authors reporting protective effects mechanisms and other authors reporting evidence of negative interference due to the generation of low affinity antibodies in the context of an original antigenic sin Reports of association of pre existing immunity to hCoVs and milder clinical manifestations of COVID 19 conflict with other reports showing in COVID 19 patients a strong back boosting of antibodies to hCoVs with very little if no neutralizing activity against SARS CoV 2 However SARS CoV 2 hCoVs cross reactive antibodies more specifically those directed against the S2 subunit of the Spike protein may be protective via Fc mediated mechanisms that recruits NK cells ADCC or similar mechanisms Since these antibodies do not neutralize or neutralize very poorly SARS CoV 2 in vitro they have been only occasionally investigated and rarely considered in the search for correlates of protection Alternatively it should also be considered that protection against severe COVID 19 disease may be sustained by cross reactive T cells with cross reactive antibodies being only a proxy of protective T cell immunity Although pre existing immunity to SARS CoV 2 is more often linked hCoVs other sources of cross reactive immunity to SARS CoV 2 including bacteria and vaccine antigens are also plausible and should be considered In particular it has been identified first computationally and later experimentally cross reactive immunity to SARS CoV 2 from combination tetanus diphtheria vaccines DTaP DTwP TD and Tdap Moreover epidemiological studies have clearly shown that subjects vaccinated with tetanus diphtheria vaccines are less likely to suffer severe COVID 19 Cross reactive immunity to SARS CoV 2 from pediatric tetanus Diphtheria vaccines and seasonal exposures to hCoVs likely play an important role in protecting children from COVID 19 On the other hand the elderly may fail to mount an effective primary response to SARS CoV 2 following infection owing to the loss of cross reactive memory B and T cells and their relative inability to recruit naive T and B cells *Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response, Volume II (volume I.B)* Thomas Rawson, Marco Iosa, Fabrizio Ricci, Zisis

Kozlakidis, Longxiang Su, Catherine Ropert, Jonathan Kantor, Constantinos Tsioutis, Susan Christina Welburn, Burc Barin, Jiufeng Sun, Eugenie Ruth Lumbers, 2023-05-31 Almost nine months since the first recorded case the novel betacoronavirus severe acute respiratory syndrome coronavirus 2 SARS CoV 2 has now passed 18 million confirmed cases The multi disciplinary work of researchers worldwide has provided a far deeper understanding of COVID 19 pathogenesis clinical treatment and outcomes lethality disease spread dynamics period of infectivity containment interventions as well as providing a wealth of relevant epidemiological data With 27 vaccines currently undergoing human trials and countries worldwide continuing to battle case numbers or prepare for resurgences the need for efficient high quality pipelines for peer reviewed research remains as crucial as ever *Technical Abstract Bulletin* ,1981 *Energy Research Abstracts* ,1979

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