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(Figure), which uses an
Fe-S cluster to sense NO
in *M. tuberculosis* and
hence evade host

defences. We have
studied how proteins
recognize

polysaccharides such as
starch, cellulose, ...

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ability to probe the structure and dynamics of proteins. The application of this technique is becoming widespread due to its versatility for providing structural information about challenging biological macromolecules such as antibodies, flexible proteins and glycoproteins. Although

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the technique has been around for 25 years, this is the first definitive book devoted entirely to the topic. Hydrogen Exchange Mass Spectrometry of Proteins: Fundamentals, Methods and Applications brings into one comprehensive volume the theory, instrumentation and applications of Hydrogen Exchange Mass

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- a technique relevant to bioanalytical chemistry, protein science and pharmaceuticals. The

book provides a solid

foundation in the basics

of the technique and data

interpretation to inform

readers of current

research in the method,

and provides illustrative

examples of its use in

bio- and pharmaceutical

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measurement and data
analysis provide the
essential background for
those ready to adopt HX-
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biocomparability, and intrinsically disordered proteins.

Exchange M

The application of hydrogen/deuterium exchange mass spectrometry (HDX-MS) to investigating protein-carbohydrate interactions is described. Proteins from three bacterial toxins, the B subunit homopentamers

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of Cholera toxin (CTB5) and Shiga toxin type 1 (Stx1B5) and a fragment of Clostridium difficile toxin A (TcdA-A2), and their interactions with native carbohydrate receptors, GM1 pentasaccharide (GM1-os), Pk trisaccharide and CD-grease, respectively, were first served as model systems for this study.

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The results suggested that HDX-MS can serve as a useful tool for localizing the ligand binding sites in carbohydrate-binding proteins. Following this, HDX-MS measurements were applied to explore the existence of distinct HMOs binding sites on toxins. Altogether, two toxins were studied, CTB5 and TcdA-A2, and their interactions with

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HMOs, 2'-fucosyllactose (2'-FL) and lacto-N-tetraose (LNT), respectively. For CTB5 and its interaction with 2'-FL, a novel binding site was localized for 2'-FL, different from the one for native receptor GM1-os. For TcdA-A2 and its interaction with LNT, however, the localized binding site was the same as its native

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carbohydrate receptor
CD-grease. A HDX-MS
based titration method
Protein-Ligand
Interactions in solution
by Mass Spectrometry,
Titration and
hydrogen/deuterium
Exchange (PLIMSTEX),
was also applied to CTB5
and its interactions
GM1-os, to test the
reliability of using
peptides as indicators to

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obtain the protein-carbohydrate binding affinities. The average apparent association constant measured for the addition of GM1-os to CTB at pH 7.0 and 20 ° C was found to be $(1.6 \pm 0.2) * 10^6 \text{ M}^{-1}$. This is in reasonable agreement with the reported value of $(3.2 \pm 0.2) * 10^6 \text{ M}^{-1}$, which was measured using direct ESI-MS

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assay at pH 6.9 and room temperature.

Ion mobility-mass spectrometry (IM-MS), gas-phase hydrogen/deuterium (H/D) exchange ion molecule reactions and molecular modeling provide complimentary information and are used here for the characterization of

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peptide ion structure, including fine structure detail (i.e., cation- π interactions, $[\text{Beta}]$ -turns, and charge solvation interactions). IM-MS experiments performed on tyrosine containing tripeptides show that the collision cross-sections of sodiated, potassiated and doubly sodiated species of gly-gly-tyr are smaller

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than that of the protonated species, while the cesiated and doubly cesiated species are larger. Conversely, all of the alkali-adducted species of try-gly-gly have collision cross-sections that are larger than that of the protonated species. The protonated and alkali metal ion adducted (Na, K and Cs) species of

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bradykinin and
bradykinin fragments
1-5, 1-6, 1-7, 1-8, 2-7,
5-9 and 2-9 were also
studied using IM-MS
and the alkali metal ion
adducts of these species
were found to have cross-
sections very close to
those of the protonated
species. Additionally,
multiple peak features
observed in the ATDs of
protonated bradykinin

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fragments 1-5, 1-6 and 1-7 are conserved upon alkali metal ion adduction. It was observed from gas-phase H/D ion molecule reactions that alkali adducted species exchange slower and to a lesser extent than protonated species in the tyrosine- and arginine-containing peptides. Experimental and

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computational results are discussed in terms of peptide ion structure, specifically the intra-molecular interactions present how those interactions change upon alkali salt adduction, as well as with the sequence of the peptide.

Additionally, IM-MS data suggests the presence of a compact conformation of

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bradykinin fragment 1-5 (RPPGF) when starting from organic solvent conditions. As water is added stepwise to methanolic solutions, a more extended conformation is populated. When the starting solution is composed of [approximately]90% water, two distinct mobility profiles are

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observed as well as a shoulder, indicating the presence of three gas-phase conformations for RPPGF. Gas-phase H/D exchange of $[M+H]^+$ ions prepared from aqueous solvents show a bi-exponential decay, whereas samples prepared from organic solvents show a single exponential decay. The effect of solvent on gas-

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phase peptide ion structure, i.e., solution-phase memory effects, is discussed and gas-phase structures are compared to know solution-phase structures.

This Brief summarizes the current research on the novel BRICHOS domain, which is a chaperone domain found in a variety of proteins

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and is shown to exhibit anti-amyloidogenic chaperone-like functions. The BRICHOS domain is defined from sequence similarities, lacks established physiological function(s) and is found about 10 distantly related pro-protein families, several of which are associated with human disease. In this work, the

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authors review the mechanism by which BRICHOS inhibits A aggregation and examine recent results from in vivo experiments where BRICHOS inhibits A aggregation and toxicity in *Drosophila melanogaster*. BRICHOS is one of nature's (more specific) ways to protect against fibril formation, and exploring

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the potential of using the BRICHOS domain in the fight against Alzheimer's Disease and other amyloid diseases seems highly relevant. This brief is useful for newcomers to this field or researchers in related fields wishing to gain a quick overview of the latest findings.

Isotope Labeling of
Biomolecules:

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