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The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between boronic acids and saccharides. Boronic Acids in Saccharide Recognition provides a

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comprehensive review
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the current
developments in this
field.

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Overview. The desire
to quantify the
presence of analytes
within diverse
physiological,
environmental and
industrial systems has

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led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between boronic acids and saccharides. Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field.

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Boronic Acids in Saccharide Recognition by Tony D James ...

The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between

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boronic acids and
saccharides.

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Saccharide recognition : boronic acids as receptors in

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Details The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods.

Boronic Acids in Saccharide Recognition - Novel

Design of Saccharide
Recognition Material
Based on Boronic Acid
Fluorophore/Cyclodextrin

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Saccharide
in Gel. Journal of Ion
Exchange 2018, 29 (3)
, 126-130. DOI:
10.5182/jaie.29.126.

Takeishi HASHIMOTO.
Development of
Supramolecular and/or
Metal-Complex
Analytical Reagents
Possessing Ion-
Exchange or Molecular
Recognition Function.

**Saccharide
Recognition Based
on Self-Assembly of**

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The designed organic boronic acid molecule featuring both hydrophilic and hydrophobic moieties, makes a potential functional surfactant.

Selective recognition of saccharides through morphological changes of phenylboronic acid-based self-assembly system by saccharide stimulation is a key concept in boronic acid design.

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Self-assembly of intramolecularly hydrogen-bonded ...

Boronic acid derivatives have been widely used for the sugar recognition motif, because boronic acids bind adjacent diols to form cyclic boronate esters. In order to develop colorimetric sugar sensors, boronic acid-conjugated azobenzenes have been synthesized.

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Colorimetric Sugar Sensing Using Boronic Acid- Substituted ...

A novel redox-sensitive protecting group for boronic acids, MPMP-diol. Tetrahedron Letters 2005, 46 (49) , 8503-8505. DOI: 10.1016/j.tetlet.2005.10.010. Wenqian Yang, Li Lin, Binghe Wang. A new type of boronic acid fluorescent reporter compound for sugar

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recognition.

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New Boronic Acid Fluorescent Reporter Compounds. 2. A ...

The equilibrium established between boronic acids and the hydroxyl groups present on saccharides has been successfully employed to develop a range of sensors for saccharides. One of the key advantages with this dynamic covalent

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strategy lies in the ability of boronic acids to overcome the challenge of binding neutral species in aqueous media.

Boronic acid - Wikipedia

Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field. It also assesses

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Saccharide Recognition: Boronic Acids in Supramolecular Chemistry

the potential of this innovative approach, outlining future lines of research and possible applications.

Boronic Acids in Saccharide Recognition | Tony D. James ...

Boronic acid-functionalized nanomaterials and surfaces for saccharides sensing. Generally, saccharides sensing occurs in the

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homogeneous
solutions. In recent
years, the application
of boronic acid-
modified nanomaterials
or solid surfaces in
saccharides sensing
has become a new
research hotspot.

Boronic acid-based chemical sensors for saccharides ...

Boronic Acids in
Saccharide Recognition
provides a
comprehensive review

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and critical analysis of the current developments in this field. It also assesses the potential of this innovative approach, outlining future lines of research and possible applications.

The boronic acids in saccharide recognition (eBook, 2006 ...

It is well understood that the binding properties of boronic

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acid-based receptors are pH dependent and identifying the pK_a of such sensor will provide the optimal window for sugar recognition.

Boronic Acid Appended Naphthyl-Pyridinium Receptors as ...

We synthesized novel PET (photoinduced electron transfer)-type fluorescence glucose probe **1** [(4-(anthracen-

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Saccharide
2-yl-carbamoyl)-3-fluor
phenyl)boronic acid],
which has a
phenylboronic acid
(PBA) moiety as the
recognition site and
anthracene as the
fluorescent part.

Although the PBA
derivatives dissociate
and bind with sugar in
the basic condition, our
new fluorescent probe
can recognize sugars in
...

Selective Sugar

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Saccharide Recognition by Anthracene-Type Boronic ...

A novel saccharide host containing four boronic acid recognition units on a single DNA duplex terminus was constructed. This construct allowed boronic acid sugar recognition in the context of double stranded DNA to be established while highlighting the

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benefits of
multivalency.

Recognition Rsc
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Chemical Functionalization of Oligodeoxynucleotid es with ...

developed for sugar
recognition in water.

Enzyme-based sensors
are highly selective,
but their stabilities are
not sufficient.

Therefore, there are
some problems from
the aspect of
durability, continuous

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monitoring, and in vivo
analysis.⁴

Chemosensors based
on boronic acid have
attracted much
attention because of

Glucose Recognition by a Supramolecular Complex of Boronic

...

The reversible bonding
can be formed through
the boronic acid, 69
which reacts with
vicinal diols in native
saccharides to

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Saccharide
generate ... An
improved class of
sugar-binding boronic
acids, soluble and
capable of complexing
glycosides in neutral ...
Carbohydrate-specific
proteins that mediate
cellular recognition.
Chem. Rev. 1998, 98,
637 ...

Protein-Centric N- Glycoproteomics Analysis of Membrane and ...

Together, the results

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revealed that the
selective saccharide
recognition at pH 7.0
was feasible by boronic
acid assembly on the
PAMAM dendrimer
surface. View Show
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