

## Carbohydrate Research Vol. 366, 2013

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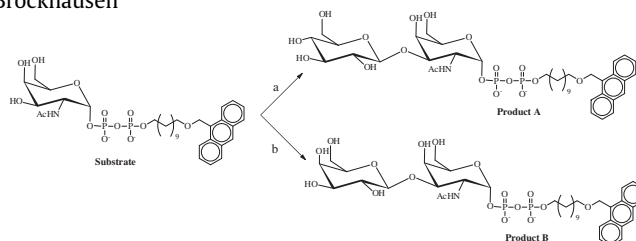
#### FULL PAPERS

##### Synthesis

#### Synthesis of a fluorescent acceptor substrate for glycosyltransferases involved in the assembly of O-antigens of enterohemorrhagic *Escherichia coli* O157 and O5

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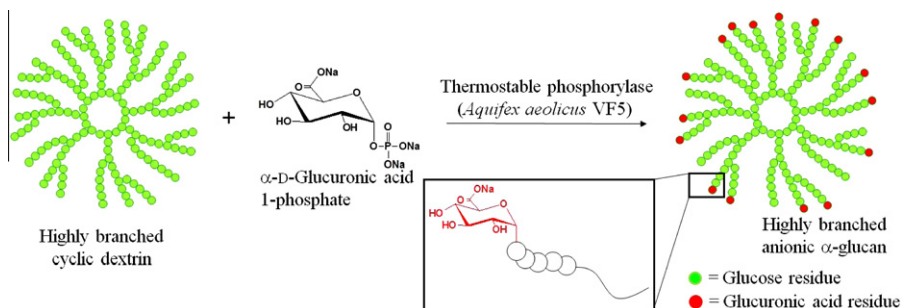
Anna N. Vinnikova, Tatyana N. Druzhinina, Leonid L. Danilov, Natalia S. Utkina, Vladimir I. Torgov, Vladimir V. Veselovsky, Shuo Wang, Bin Liu, Lei Wang, Inka Brockhausen\*



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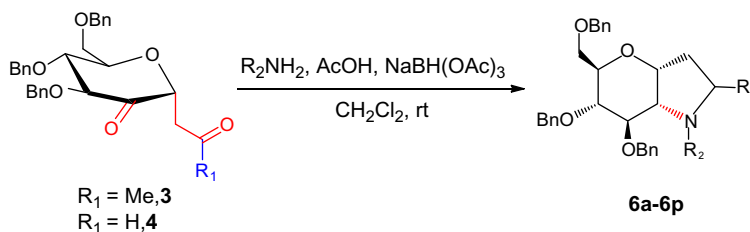
Yasutaka Takemoto, Hironori Izawa, Yuta Umegatani, Kazuya Yamamoto, Akiko Kubo, Michiyo Yanase, Takeshi Takaha, Jun-ichi Kadokawa\*



#### A convenient and highly stereoselective method for synthesis of octahydroprano[3,2-*b*]pyrrole derivatives

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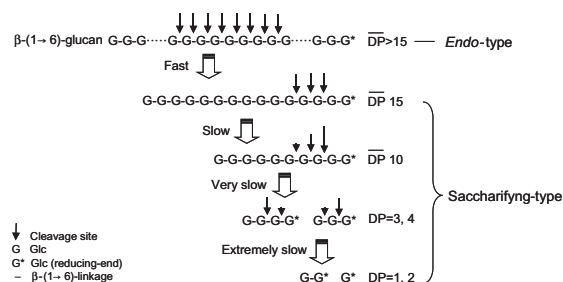
Xiaofeng Ma, Qin Tang, Jun Ke, Haibo Wang, Wei Zou, Huawu Shao\*



**Biochemistry and Enzymes****Mode of action of a  $\beta$ -(1 $\rightarrow$ 6)-glucanase from *Penicillium multicolor***

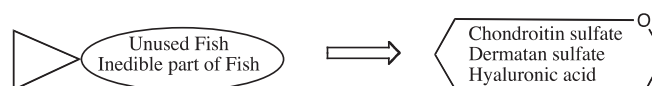
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Takeshi Hattori, Yasuna Kato, Shuji Uno, Taichi Usui\*

**Polysaccharides****Amounts and compositional analysis of glycosaminoglycans in the tissue of fish**

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Kazuya Arima, Hiroyuki Fujita, Ryosuke Toita, Ayaka Imazu-Okada, Nao Tsutsumishita-Nakai, Naoko Takeda, Yasuhiro Nakao, Hui Wang, Manami Kawano, Kenya Matsushita, Haruna Tanaka, Shin Morimoto, Ayumi Nakamura, Masahiro Kitagaki, Yuka Hieda, Ryuya Hatto, Ayako Watanabe, Takeru Yumura, Takashi Okuhara, Hiroki Hayashi, Katsuhiko Shimizu, Kiyoshi Nakayama, Shinya Masuda, Yukio Ishihara, Shunsuke Yoshioka, Shinobu Yoshioka, Seizo Shirade, Jun-ichi Tamura\*

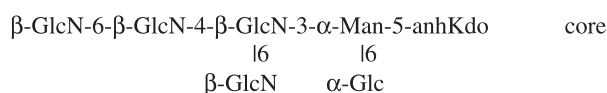


Glycosaminoglycans (GAGs) such as chondroitin sulfate (CS), dermatan sulfate (DS), and hyaluronic acid were isolated from unused fishes and inedible parts of fish. The amounts of GAGs contained in the tissues and ratios of CS/DS differed remarkably among fish. The dorsal fin of the yellowfin sole contained more than 1300 mg of CS–DS per 100 g of defatted-dry tissue.

**The study of the core part and non-repeating elements of the O-antigen of *Brucella lipopolysaccharide***

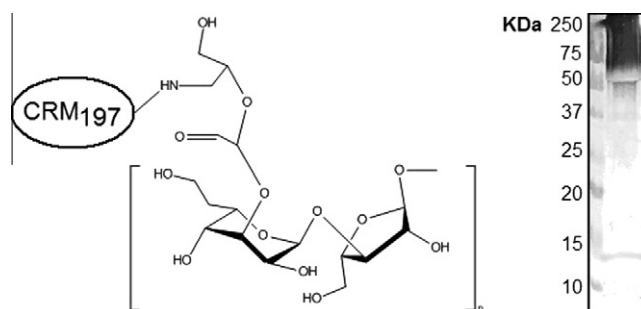
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Joanna Kubler-Kielb, Evgeny Vinogradov\*

*Brucella melitensis/abortus/suis* polysaccharide**The design of a capsule polysaccharide conjugate vaccine against *Campylobacter jejuni* serotype HS15**

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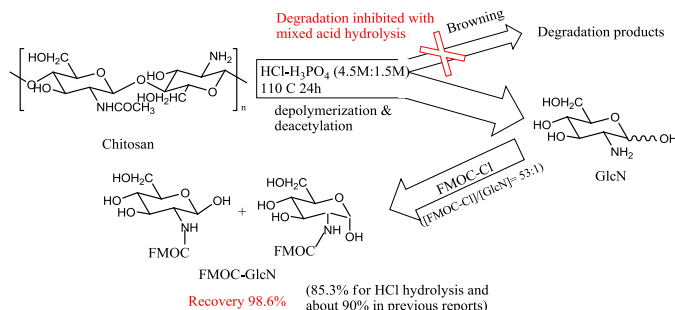
Lisa Bertolo, Cheryl P. Ewing, Alexander Maue, Frederic Poly, Patricia Guerry, Mario A. Monteiro\*



**Determination of chitosan with a modified acid hydrolysis and HPLC method**

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Bo Li, Jiali Zhang, Fen Bu, Wenshui Xia\*



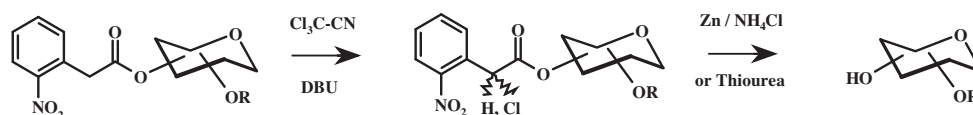
**NOTES**

**Synthesis**

**Transformation of the (2-nitrophenyl)acetyl protecting group in the presence of trichloroacetonitrile and 1,8-diazabicyclo[5,4,0]undec-7-ene**

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Jean-Claude Jacquinet\*



\*Corresponding author

Supplementary data available via SciVerse ScienceDirect

**COVER**

Carbohydrate synthesis and different functional supports are synergistically combined to generate new tools for biosensing, imaging, and therapeutics.

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