## SUBJECT INDEX

- Acetolysis and NMR studies of the D-mannan of Saccharomyces cerevisiae X2180-A wild-type strain, 317
- Acidic glycan from the reference strain for Serratia marcescens serogroup O22, structure of an, 237
- Aeromonas salmonicida ssp. salmonicida, structure of the core oligosaccharide in the lipopolysaccharide isolated from, 83
- Antitumour storage and solubilised cell-wall  $(1 \rightarrow 3), (1 \rightarrow 6)$ - $\beta$ -D-glucans of *Pythium aphanidermatum*, culture, cell-wall composition, and isolation and structure of, 293
- Bacterial polysaccharide gellan, synthesis and preliminary characterisation of new esters of the, 73
- Bacteriophage degradation and inverse-detected NMR experiments, a re-investigation of the structure of the capsular polysaccharide of *Klebsiella* K15 using, 93
- Bradyrhizobium japonicum 61A101c and its symbiotically defective lipopolysaccharide mutant JS314, structures of the oligosaccharides obtained from the core regions of the lipopolysaccharides of, 205
- Campylobacter jejuni serotypes O:23 and O:26, structures of the O chains from lipopolysaccharides of, 13
- Candida stellatoidea Types I and II, structural comparison of the p-mannans of the pathogenic yeasts, 105
- Capsular antigen of *E. coli* O8:K46:H30, determination of structure using FABMS and 2D-NMR spectroscopy, 39
- O Chains from lipopolysaccharides of *Campy-lobacter jejuni* serotypes O:23 and O:26, structures of the O chains from, 13
- Conformational stability and gelation of *Rhizo-bium* capsular polysaccharide, effect of the selective removal of  $\alpha$ -D-galactose side chains by guar  $\alpha$ -D-galactosidase, 185
- Cyclic (1 → 2)-β-D-glucans (cyclosophorans) produced by *Agrobacterium* and *Rhizobium* species, 137

- Cyclosophorans [cyclic (1 → 2)-β-D-glucans] produced by *Agrobacterium* and *Rhizobium* species. 137
- 3-Deoxy-D-manno-2-octulosonate (Kdo) in lipopolysaccharides of representatives of the family Vibrionaceae and the occurrence of Kdo 4-phosphate in their inner-core regions, taxonomic implication of the apparent undetectability of, 55
- 2,3-Diamino-2,3-dideoxy-D-glucose (GlcN3N), methylation analysis in the determination of the structure of disaccharides containing, 309
- 2,4-Dihydroxy-3,3,4-trimethylpyroglutamic acid, occurrence as an N-acyl substituent in the O-polysaccharide chain of the lipopolysaccharide of Vibrio anguillarum V-123, 147
- Dissaccharides containing 2,3-diamino-2,3-dideoxy-p-glucose (GlcN3N) associated with the backbone of lipid A, methylation analysis in the determination of the structure of, 309
- Disaccharides of 3-deoxy-D-manno-octulopyranosonic acid (Kdo), GLC-MS of reduced, acetylated, and methylated (2 → 4)- and (2 → 8)-linked, 65
- Enterobacter agglomerans, structure of the Ospecific polysaccharide chain of the lipopolysaccharide. 197
- Escherichia coli O8: K46: H30, determination of the structure of the capsular antigen by FABMS and 2D-NMR spectroscopy, 39
- Ester-containing polysaccharides, studies of model compounds for analysis by the reductive cleavage method, 221
- Esters of the bacterial polysaccharide gellan, synthesis and preliminary characterisation of new, 73
- Exopolysaccharide produced by *Lactococcus* lactis subspecies cremoris H414 grown in a defined medium or skimmed milk, structure of the. 273
- Galactoglucan from *Rhizobium meliloti* strain YE-2(SI), solution conformation and properties of the, 117

- Gel-forming capsular polysaccharide from *Rhi*zobium trifolii, the "pseudo double-helical" structure of the, 171
- Gellan family of bacterial polysaccharides, solution properties, 31
- Gellan, synthesis and preliminary characterisation of new esters of the bacterial polysaccharide, 73
- GLC-MS of reduced, acetylated, and methylated  $(2 \rightarrow 4)$  and  $(2 \rightarrow 8)$ -linked disaccharides of 3-deoxy-D-manno-octulopyranosonic acid (Kdo), 65
- Glucans, cyclic  $(1 \rightarrow 2)$ - $\beta$ -D-, produced by *Agrobacterium* and *Rhizobium* species, 137
- Glucans of *Pythium aphanidermatum*, culture, cell-wall composition, and isolation and structure of antitumour storage and solubilised cell-wall  $(1 \rightarrow 3)$ ,  $(1 \rightarrow 6)$ - $\beta$ -D-, 293
- Glycan from the reference strain for *Serratia* marcescens serogroup O22, structure of an acidic, 237
- Glycerol teichoic acid-like O-specific polysaccharide of *Hafnia alvei* 1205, the structure of, 249
- Hafnia alvei strain 38 lipopolysaccharide, the structure of the O-specific polysaccharide from, 51
- Klebsiella K15, a re-investigation of the structure of the capsular polysaccharide of, using bacteriophage degradation and inverse-detected NMR experiments, 93
- Lactococcus lactis subspecies Cremoris H414 grown in a defined medium or skimmed milk, structure of the exopolysaccharide produced by, 273
- Lipopolysaccharide isolated from *Aeromonas* solmonicida ssp. salmonicida, structure of the core oligosaccharide in the, 83
- Lipopolysaccharide of Enterobacter agglomerans, structure of the O-specific polysaccharide chain of the, 197
- Lipopolysaccharide of Salmonella arizonae O61, the structure of the O-specific polysaccharide chain of the, 1
- Lipopolysaccharide of *Vibrio anguillarum* V-123, occurrence of 2,4-dihydroxy-3,3,4-trimethylpyroglutamic acid as an *N*-acyl substituent in the O-polysaccharide chain of the, 147
- Lipopolysaccharide of *Vibrio anguillarum* V-123, structure of the O-polysaccharide of the, 159
- Lipopolysaccharide, the structure of the Ospecific polysaccharide from *Hafnia alvei* strain 38, 51

- Lipopolysaccharides of *Bradyrhizobium japonicum* 61A101c and its symbiotically defective lipopolysaccharide mutant JS314, structures of the oligosaccharides obtained from the core regions of the. 205
- Lipopolysaccharides of *Campylobacter jejuni* serotypes O:23 and O:26, structures of the O chains from, 13
- Lipopolysaccharides of representatives of the family Vibrinaceae and the occurrence of Kdo 4-phosphate in their inner-core regions, taxonomic implication of the apparent undetectability of 3-deoxy-p-manno-2-octulosonate (Kdo) in, 55
- Lipopolysaccharides of symbiotically impaired Rhizobium leguminosarum biovar viciae VF-39 mutants, characterization of structural defects in the. 261
- D-Mannan of Saccharomyces cerevisiae X2180-1A wild-type strain, mild acetolysis and NMR studies of the, 317
- D-Mannans of the pathogenic yeasts Candida stellatoidea Types I and II, structural comparison of the, 105
- Metabolic labelling and partial characterisation of a sulfoglycolipid in *Trypanosoma cruzi* trypomastigotes, 329
- Methylation analysis in the determination of the structure of disaccharides containing 2,3-diamino-2,3-dideoxy-p-glucose (GlcN3N) associated with the backbone of lipid A, 309
- Model compounds for the analysis of ester-containing polysaccharides by the reductive-cleavage method, studies of, 221
- NMR spectroscopy and FABMS, determination of the structure of the capsular antigen of *E. coli* O8: K46: H30 by 2D, 39
- Octulopyranosonic acid (Kdo), GLC-MS of reduced, acetylated, and methylated (2 → 4)-and (2 → 8)-linked disaccharides of 3-deoxy-D-manno-, 65
- Oligosaccharide in the lipopolysaccharide isolated from *Aeromonas salmonicida* ssp. *salmonicida*, structure of the core, 83
- Oligosaccharides obtained from the core regions of the lipopolysaccharides of *Bradyrhizobium japonicum* 61A101c and its symbiotically defective lipopolysaccharide mutant JS314, structures of the, 205
- Polysaccharide chain of the lipopolysaccharide of *Enterobacter agglomerans*, structure of the O-specific, 197

- Polysaccharide chain of the lipopolysaccharide of *Salmonella arizonae* O61, the structure of the O-specific, 1
- O-Polysaccharide chain of the lipopolysaccharide of *Vibrio anguillarum* V-123, structure of the, 159
- Polysaccharide from *Hafnia alvei* strain 38 lipopolysaccharide, the structure of the Ospecific, 51
- Polysaccharide from *Rhizobium trifolii*, the "pseudo-helical" structure of the gel-forming capsular, 171
- Polysaccharide of *Hafnia alvei* 1205, the structure of a glycerol teichoic acid-like Ospecific, 249
- Polysaccharide of *Klebsiella* K15, a re-investigation of the structure using bacteriophage degradation and inverse-detected NMR experiments, 93
- Polysaccharide S-84 elaborated by *Pseudomonas* ATCC 31562, structure and depolymerization using fuming hydrocholoric acid, 325
- Polysaccharide, selective removal by guar  $\alpha$ -D-galactosidase of  $\alpha$ -D-galactose side chains from *Rhizobium* capsular polysaccharide, and the effect on conformational stability and gelation, 185
- Polysaccharides of the gellan family, the solution properties of bacterial, 31
- Polysaccharides, studies of model compounds for the analysis by the reductive-cleavage method of ester-containing, 221
- Pseudomonas ATCC 31562, structure of the polysaccharide S-84 elaborated by, and depolymerisation using fuming hydrochloric acid, 325
- Pythium aphanidermatum, culture, cell-wall composition, and isolation and structure of antitumour storage and solubilised cell-wall  $(1 \rightarrow 3)$ ,  $(1 \rightarrow 6)$ - $\beta$ -D-glucans, 293
- Rhizobium capsular polysaccharide, selective removal by guar α-D-galactosidase of α-D-galactose side chains and the effect on conformational stability and gelation, 185
- Rhizobium leguminosarum biovar viciae VF-39 mutants, characterization of structural defects in the lipopolysaccharides of symbiotically impaired, 261
- Rhizobium meliloti strain YE-2(SI), solution conformation and properties of the galactoglucan from, 117
- Rhizobium trifolii, the "pseudo-helical" structure of the gel-forming capsular polysaccharide from, 171

- Saccharomyces cerevisiae X2180-1A wild-type strain, mild acetolysis and NMR studies of the p-mannan of, 317
- Salmonella arizonae O61, the structure of the O-specific polysaccharide chain of the lipopolysaccharide of, 1
- Serratia marcescens serogroup O22, structure of an acidic glycan from the reference strain for, 237
- Solution conformation and properties of the galactoglucan from *Rhizobium meliloti* strain YE-2(SI), 117
- Solution properties of bacterial polysaccharides of the gellan family, 31
- Structure of the expopolysaccharide produced by *Lactococcus lactis* subspecies *cremoris* H414 grown in a defined medium or skimmed milk 273
- Structure of the polysaccharide S-84 elaborated by *Pseudomonas* ATCC 31562 and depolymerisation using fuming hydrochloric acid, 325
- Sulfoglycolipid in *Trypanosoma cruzi* trypomastigotes, metabolic labelling and partial characterisation of a, 329
- Symbiotically impaired *Rhizobium legumi-nosarum* biovar *viciae* VF-39 mutants, characterization of structural defects in the lipopolysaccharides of, 261
- Taxonomic implication of the apparent undetectability of 3-deoxy-D-manno-2-octulosonate (Kdo) in lipopolysaccharides of representatives of the family Vibrionaceae and the occurrence of Kdo 4-phosphate in their inner-core regions, 55
- Teichoic acid-like O-specific polysaccharide of Hafnia alvei 1205, the structure of a glycerol, 249
- Trypanosoma cruzi trypomastigotes, metabolic labelling and partial characterisation of a sulfoglycolipid in, 329
- Vibrio anguillarum V-123, occurrence of 2,4-dihydroxy-3,3,4-trimethylpyroglutamic acid as an N-acyl substituent in the O-polysaccharide chain of the lipopolysaccharide of, 147
- Vibrio anguillarum V-123, structure of the Opolysaccharide chain of the lipopolysaccharide of, 159
- Yeasts (Candida stellatoidea Types I and II), structural comparison of the p-mannans of pathogenic, 105