Biochemical and Biophysical characterization of lectins from plants

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Lectins, Human CTLD database - Imperial College London www.imperial.ac.uk, Animal lectins home. M. Lakhtin, V. Alyoshkin, V. Lakhtin, Y. Nesvizhsky, S. Afanasyev, and V. Pospelova. The role of lectins from probiotic microorganisms in sustaining the macroorganism. Vestnik of Russian Academy of Medical Sciences (Moscow), 2010; No2: 3-8 (in Russian). M. V. Lakhtin, V. M. Lakhtin, S. S. Afanasyev, and V. A. Aleshkin. Lectin enzymes regulators of metabolism. Problems of Scientific Thought (Dnepr, Ukraine) [Problemy nauchnoy misli (Dnepr)], 2017;1(11):71-90 (in Russian), ISSN: 1561-6916, https://elibrary.ru/item.asp?id=30469273. Identification and Biochemical Characterization of Glyphosate Tolerant Bacteria. Twenty-four strains were isolated from rhizosphere and pastureland bulk soil samples on solid medium, then preserved, and their survival was checked after 3 months of conservation at −80°C and freeze-drying. Genomic Characterization of Glyphosate Tolerant Bacteria. Seven of the sixteen strains were selected for whole genome sequencing to assess the genetic basis associated to glyphosate tolerance and plant-growth promotion potential following the in vitro tests (Table 1). According to prokaryote databases, the Rhizobium, Ochrobactrum, and Phyllobacterium genomes sequenced exhibit the expected genome size. Biochemical and Biophysical Research. Communications 2003; 301(2); 545-550. 9. Barrientos LG. Lectins may be derived from plants, microbial or animal sources and may be soluble or membrane bound. Lectins is a tetramer made up of four nearly identical subunits. In human, lectins have been reported to cause food poisoning, hemolytic anemia, jaundice, digestive distress, protein and carbohydrate malabsorption and type I allergies. Lectins comprise a structurally very diverse class of proteins characterized by their ability to bind carbohydrates with considerable specificity. They are found in organisms ranging from viruses and plants to humans and serve to mediate biological recognition events.