

Dr. Soumitra Mandal

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PERSONAL INFORMATION

Ph. D.:	2012, Vidyasagar University, Medinipur
Thesis Title:	Studies of plant and mushroom polysaccharides
Thesis Supervisor:	Prof. (Dr.) Syed Sirajul Islam
Specialization:	Organic Chemistry
Area of Interest:	Carbohydrate Polymers
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PUBLICATIONS:

1. Nandan, C.K.; Patra, P.; Bhanja S.K.; Adhikari, B.; Sarkar, R.; **Mandal, S.**; Islam, S.S. Structural characterization of a water-soluble β -(1 \rightarrow 6)-linked D-glucan isolated from the hot water extract of an edible mushroom, *Agaricus bitorquis*. *Carbohydrate Research*, **2008**, *343*, 3120-3122. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
2. **Mandal, S.**; Sarkar, R.; Patra, P.; Nandan, C.K.; Das, D.; Bhanja S.K.; Islam, S.S. Structural studies of a heteropolysaccharide (PS-I) isolated from hot water extract of fruits of *Psidium guajava* (Guava). *Carbohydrate Research*, **2009**, *344*, 1365-1370. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
3. Sarkar, R.; Nandan, C.K.; **Mandal, S.**; Patra, P.; Das, D.; Islam, S.S. Structural characterization of a heteropolysaccharide isolated from hot water extract of the stems of *Amaranthus tricolor* Linn. (*Amaranthus gangeticus* L.). *Carbohydrate Research*, **2009**, *344*, 2412-2416. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
4. Bhunia, S.K.; Dey, B.; Maity, K.K.; Patra, S.; **Mandal, S.**; Maiti, S.; Maiti, T.K.; Sikdar, S. R.; Islam, S.S. Structural characterization of an immunoenhancing heteroglycan isolated from an aqueous extract of an edible mushroom, *Lentinus squarrosulus* (Mont.) Singer.

Carbohydrate Research, **2010**, 345, 2542-2549. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]

5. **Mandal, S.**; Maity, K.K.; Bhunia, S.K.; Dey, B.; Patra, S.; Sikdar, S.R.; Islam, S.S. Chemical analysis of new water-soluble (1→6)-, (1→4)- α , β -glucan and water-insoluble (1→3)-, (1→4)- β -glucan (*Calocyban*) from alkaline extract of an edible mushroom, *Calocybe indica* (Dudh Chattu) *Carbohydrate Research*, **2010**, 345, 2657-2663. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
6. Dey, B.; Bhunia, S.K.; Maity, K.K.; Patra, S.; **Mandal, S.**; Maiti, S.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Chemical analysis of an immunoenhancing water-soluble polysaccharide of an edible mushroom, *Pleurotus florida* blue variant. *Carbohydrate Research*, **2010**, 345, 2736-2741. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
7. **Mandal, S.**; Patra, S.; Dey, B.; Bhunia, S.K.; Maity, K.K.; Islam, S.S. Structural analysis of an arabinan isolated from alkaline extract of the endosperm of seeds of *Caesalpinia bonduc* (Nata Karanja). *Carbohydrate Polymers*, **2011**, 84, 471-476. [ISSN: 0144-8617, I. F.: 4.074 (as on 2014)]
8. Maity, K.K.; Patra, S.; Dey, B.; Bhunia, S.K.; **Mandal, S.**; Das, D.; Majumdar, D.K.; Maiti, S.; Maiti, T.K.; Islam, S.S. A heteropolysaccharide from aqueous extract of an edible mushroom, *Pleurotus ostreatus* cultivar: structural and biological studies. *Carbohydrate Research*, **2011**, 346, 366-372. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
9. Patra, S.; Maity, K.K.; Bhunia, S.K.; Dey, B.; **Mandal, S.**; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Structural characterization and study of immunoenhancing properties of heteroglycan isolated from a somatic hybrid mushroom (PfloVv1aFB) of *Pleurotus florida* and *Volvarella volvacea*. *Carbohydrate Research*, **2011**, 346, 1967-1972. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
10. Bhunia, S.K.; Dey, B.; Maity, K.K.; Patra, S.; **Mandal, S.**; Maiti, S.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Isolation and characterization of an immunoenhancing glucan from alkaline extract of an edible mushroom, *Lentinus squarrosulus* (Mont.) Singer. *Carbohydrate Research*, **2011**, 346, 2039-2044. [ISSN: 0008-6215, I. F.: 1.929 (as on 2014)]
11. Dey, B.; Bhunia, S.K.; Maity, K.K.; Patra, S.; **Mandal, S.**; Maiti, S.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Glucans of *Pleurotus florida* blue variant: isolation, purification, characterization and immunological studies. *International Journal of Biological Macromolecules*, **2012**, 50, 591-597. [ISSN: 0141-8130, I. F.: 2.858 (as on 2014)]

12. Bhunia, S.K.; Dey, B.; Maity, K.K.; Patra,S.; **Mandal, S.**; Maiti, S.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Heteroglycan from an alkaline extract of a somatic hybrid mushroom (*PfloVv1aFB*) of *Pleurotus florida* and *Volvariella volvacea*: Structural characterization and study of immunoenhancing properties. *Carbohydrate Research*, **2012**, *354*, 110-115. [ISSN: 0008-6215, I. F.: **1.929** (as on 2014)]
13. Bhanja S.K.; Nandan, C.K.; **Mandal, S.**; Bhunia, B.; Maiti, T.K.; Mondal, S.; Islam, S.S. Isolation and characterization of the immunostimulating β -glucans of an edible mushroom *Termitomyces robustus* var. *Carbohydrate Research*, **2012**, *357*, 83-89. [ISSN: 0008-6215, I. F.: **1.929** (as on 2014)]
14. Mandal, E.K.; **Mandal, S.**; Maity, S.; Behera, B.; Maiti, T.K.; Islam, S.S. Structural studies of an immunostimulating gluco-arabinan from seeds of *Caesalpinia bonduc*. *Carbohydrate Polymers*, **2013**, *92*, 704-711. [ISSN: 0144-8617, I. F.: **4.074** (as on 2014)]
15. Dey, B.; Bhunia, S.K.; Maity, K.K.; Patra,S.; **Mandal, S.**; Behera, B.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. Structure and Immunology of a heteroglycan from somatic hybrid mushroom of *Pleurotus florida* and *Calocybe indica* var. APK2. *International Journal of Biological Macromolecules*, **2013**, *52*, 312-318. [ISSN: 0141-8130, I. F.: **2.858** (as on 2014)]
16. Patra, S.; Patra, P.; Maity, K.K.; **Mandal, S.**; Bhunia, S.K.; Dey, B.; Devi, K.S.P.; Khatua, S.; Acharya, K.; Maiti, T.K.; Islam, S.S. A heteroglycan from the mycelia of *Pleurotus ostreatus*: structure determination and study of antioxidant properties. *Carbohydrate Research*, **2013**, *368*, 16-21. [ISSN: 0008-6215, I. F.: **1.929** (as on 2014)]
17. Maity, K.K.; Patra, S.; Dey, B.; Bhunia, S.K.; **Mandal, S.**; Bahera, B.; Maiti, T.K.; Sikdar, S.R.; Islam, S.S. A β -glucan from the alkaline extract of a somatic hybrid (*PfloVv5FB*) of *Pleurotus florida* and *Volvariella volvacea*: structural characterization and study of immunoactivation. *Carbohydrate Research*, **2013**, *370*, 13-18. [ISSN: 0008-6215, I. F.: **1.929** (as on 2014)]