

DR. KAUSHIK GHOSH

Associate Professor & HOD

Department of Chemistry

Ghatal Rabindra Satabarsiki Mahavidyalaya

Joined this college in 2008



Education

B.Sc.(Hons) in Chemistry (Jadavpur University)

M.Sc. in Chemistry (Jadavpur University)

Ph.D. (Vidyasagar University)

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Area of Research

Structural Investigation of polysaccharides of plants & Mushrooms and their biological activity.

Minor Research Project (UGC) completed

Title: Structural Investigation and study on immunomodulatory properties of polysaccharides from seeds of *Lagenaria siceraria* (Lau). Sanction no.-F.PSW-083/11-12 (ERO) dated 03.08.11

Publications

- ❖ A water-soluble glucan isolated from an edible mushroom *Termitomyces microcarpus*, *Carbohydrate Research*, Vol -342, p-225-238(**2007**)
- ❖ Structural investigation of a hetero polysaccharide isolated from the pods(fruits) of *Moringa oleifera* (sajina), *Carbohydrate Research*, Vol -342, p-2380-2389(**2007**)
- ❖ Structural studies of a methyl galacturonosyl methoxy xylan isolated from the stem of *Lagenaria siceraria* (Lau), *Carbohydrate Research*, Vol -343, p-341-349(**2008**)
- ❖ Isolation and characterization of a Mannofucoglucan from fruit bodies of *Astraeus hygrometricus*, *Carbohydrate Research*, Vol -343, p-817-824(**2008**)
- ❖ Structural investigation of a polysaccharide (Fr.I) isolated from the aqueous extract of an edible mushroom, *Volvariella diplasia*, *Carbohydrate Research*, Vol -343, p-1071-1078(**2008**)
- ❖ Chemical analysis of a new fucoglucan isolated from an edible mushroom, *Termitomyces robustus*, *Carbohydrate Research*, Vol -343, p-1062-1070(**2008**)

- ❖ *Structural assignment of a hetero- polysaccharide isolated from the gum of Cochlospermum religiosum (Katira gum), Carbohydrate Research, Vol -343, p-1222-1231(2008)*
- ❖ *NMR and MALDI-TOF MS analysis of a heteroglycan isolated from hot water extract of edible mushroom, Volvariella bombycine, Carbohydrate Research, Vol -343, p-2258-2265(2008)*
- ❖ *NMR and MALDI-TOF MS analysis of a water-soluble glucan from an edible mushroom, Volvariella diplasia, Carbohydrate Research, Vol -343, p-2834-2840(2008)*
- ❖ *Structural identification and cytotoxic activity of a polysaccharide from the fruits of Lagenaria siceraria (Lau), Carbohydrate Research, Vol -344, p-693-698(2009)*
- ❖ *A protein containing Glucan from an Edible Mushroom, Termitomyces microcarpus(var.) Natural Product Communications, Vol -4, p-553-556(2009)*
- ❖ *Chemical Analysis of a polysaccharide of unripe (green) tomato (Lycopersion esculentum) Carbohydrate Research, Vol -344, p-2188-2194(2009)*
- ❖ *Structural analysis of an immunoenhancing heteropolysaccharide isolated from the green (unripe) fruits of Solenium melongena (Brinjal), Carbohydrate Research, Vol -344, p-2357-2363(2009)*
- ❖ *Glucans from the alkaline extract of an edible mushroom, Pleurotus florida, cv Assam Florida: Isolation, purification and characterization, Carbohydrate Research, Vol -345, p-2157-2163(2010)*
- ❖ *Pectic polysaccharide from seeds of Lagenaria siceraria (Lau): Structural characterization and study of Immuno-enhancing and antioxidant properties, Journal of Physical Sciences, Vol -20, p-225-238(2015)*
- ❖ *A review Mushrooms: A source of Immunomodulating and Antitumor Polysaccharides, Journal of Physical Sciences, Vol -20, p-239-252(2015)*
- ❖ *MALDI-TOF analysis of water-soluble polysaccharides of an edible mushroom, Pleurotus florida Journal of Physical Sciences, Vol -21, p-119-128(2016)*
- ❖ *A Review: Edible Mushrooms as source of dietary fiber and its health effects, Journal of Physical Sciences, Vol -21, p-129-137(2016)*
- ❖ *Structural Studies of an Immuno Enhancing Polysaccharide Isolated from an Edible Mushroom, Volvariella diplasia, Journal of Physical Sciences, Vol -22, p-123-135(2017)*
- ❖ *Green synthesis, characterization, antimicrobial and cytotoxic effect of silver nanoparticles using arabinoxylan isolated from Kalmegh, International Journal of Biological Macromolecules, Vol-162, p-1025–1034(2020)*
- ❖ *A Review on Edible Straw Mushrooms: A Source of High Nutritional Supplement, Biologically Active Diverse Structural Polysaccharides, Journal of Scientific Research, Vol-64(2), p-295-304(2020)*
- ❖ *Nutritional potential, health effects and structural diversity of bioactive polysaccharides from Lagenaria siceraria : A review, Journal of Advanced Scientific Research, Vol-*

11(3),p-34-42(2020)

- ❖ Bioactive Glucans from Edible Mushrooms: A review, *Asian Journal of Chemistry*, Vol-32(10),p-2431-2437(2020)
- ❖ Synthesis of Photo Conducting Poly (siloxane) of Indole Ring, *IOSR Journal of Applied Chemistry*, Vol-13(3),p-16-19(2020)

Awards /Honours/Memberships

- ❖ Awarded GATE (2002 &2003) in Chemistry
- ❖ Awarded CSIR- UGC- NET (2002) in Chemical Sciences
- ❖ Life member of Indian Chemical Society (ICS)
- ❖ Life member of Indian Association of Chemistry Teachers (IACT)
- ❖ Life member of Society of Biological Chemists, India

Book Edited

Name: ‘Recent Trends in Research in Chemical Sciences’, 1st Edition, Vol-1, 2016[ISBN : 978-93-5267-187-8]

Publisher: Ghatal Rabindra Satabarsiki Mahavidyalaya

Printed by: Rohini Nandan, 19/2, Radhanath Mallick Lane , Kolkata-12