

# Dr. TANYA DAS

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**Current Designation:** Associate Professor

**Department:** Chemistry

**Date of Joining:** February 03, 1998

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## 1. Academic Qualifications

Degree	Institution	Year	Subject/Discipline
M.Sc.	Jadavpur University	1992	Chemistry with Specialization in Organic Chemistry
Ph. D.	National Chemical Laboratory, Pune University	1998	Organic Chemistry

## 2. Thesis Title

Ph.D. Thesis Title: **Chemistry of Inositol: Mechanism and Synthetic Studies with O – Substituted *myo* – Inositol Orthoformate Derivatives**

## 3. Specialization and Area of Interests

Specialization: Organic Chemistry

Area of Interests: Synthesis and reactions of Inositol Compounds

## 4. Teaching Responsibilities:

**Organic Chemistry**

## 5. Publications

### a. Research Papers in Journals

1. Neighbouring Hydroxy group assisted O-Alkylation and solvolysis of an unsymmetrical diester derivative of *myo*-inositol.

T. Banerjee and M. S. Shashidhar, **Tetrahedron Letters**, Vol. 35, No. 43, pp. 8053-8056, 1994.

2. Silver (I) oxide assisted O- alkylation of 2,4-di-O-benzoyl-*myo*-inositol-1,3,5-orthoformate and its 6-O-substituted derivatives: Transannular participation of oxygen.  
T. Das and M. S. Shashidhar, **Carbohydrate Research** **297** (1997), **243-249**.
3. Reactivity controlled by lattice interactions in crystal: Intramolecular Acyl transfer in 2,4-di-O-benzoyl-*myo*-inositol-1, 3, 5-orthoformate.  
T. Praveen, U. Samanta, T. Das, M. S. Shashidhar, P. Chakrabarti, **J. Am. Chem. Soc.**, **1998**, **120**, **3842-3845**.
4. Mechanism of Silver (I) oxide mediated O- alkylation of 2,4-di-O-benzoyl-*myo*- Inositol-1,3,5-orthoformates: Effect of solvent and silver halide on the nature of the intermediates involved.  
T. Das, T. Praveen, M. S. Shashidhar, **Carbohydrate Research**, **313** (1998), **55-59**.
5. Racemic 2,4-di- O-benzoyl-*myo*-inositol-1,3,5-orthoformate: A versatile intermediate for the preparation of *myo*-inositol phosphates.  
T. Das, M. S. Shashidhar, **Carbohydrate Research**, **308**, (1998), **165-168**.
6. Silver (I) oxide- silver halide mediated alcoholysis of O- benzoyl- *myo*-inositol-1,3,5-orthoformate: Intramolecular assistance by the sulfonyl group.  
T. Praveen, T. Das, K. M. Sureshan, M. S. Shashidhar, U. Samanta, D. Pal and P. Chakrabarti, **Journal of the Chemical Society, Perkin Transaction 2**, **2002**, **358**.
7. K. M. Sureshan, T. Das, M. S. Shashidhar, R. G. Gonnade, M. H. Bhadbhade, **Eur. J. Org. Chem**, **2003**, **1035**.
8. Regioselective protection and deprotection of inositol hydroxyl groups.  
K. M. Sureshan, M. S. Shashidhar, T. Praveen and T. Das, **Chemical Reviews**, **2003**, **103**, **4477 – 4503**.
9. Use of cipher and cipher-key in carbohydrate nomenclature.  
Amalendu Banerjee, Tanya Das and Rina Ghosh, **J. Indian Chemical Society**, **2009**, **86**, **963-968**.

#### **b. Books**

1. Practical Organic Chemistry for the Beginners, Tanya Das & Amalendu Banerjee, **NCBA**, **ISBN: 978-81-7381-651-2**; First published **January, 2011**.
2. Nomenclature of the Organic Compounds for the Beginners, Tanya Das & Amalendu Banerjee, **NCBA**, **ISBN: 978-81-7381-682-2**; First published **September, 2013**.

## 6. Conferences/Seminars/Symposia/Workshops Attended

1. One-day workshop on 'UG Chemistry Honours Practical, Semester-3 (Under CBCS), University of Calcutta' organized by Department of Chemistry, Asutosh College, Kolkata in collaboration with UGBOS, University of Calcutta on July 29, 2019.
2. Fundamentals of Infection Immunity and Vaccines; Department Of Chemistry Fakir Chand College on **September 04, 2020**
3. Scope of Virtual Labs In UG Physics And Chemistry Teaching; Department of Physics, Chemistry and IQAC of Sarojini Naidu College For Women on **June 30, 2020**.
4. International Webinar on Chemistry In Medicines And Diagnostics: A Pandemic Perspective; Department Of Chemistry, Vivekananda Satavarshiki Maavidyalaya on **July 08, 2020**.
5. Home Management of Covid – 19 Patients; IQAC, Charuchandra College (State Level), **July 30, 2020**.
6. Discipline Specific Elective Topics Of UG Chemistry (H) CBCS Syllabus, C.U.; Department Of Chemistry and IQAC of Moulana Azad College and Asutosh College (State Level) on **August 04 – 07, 2020**.
7. International Webinar on New Mode of Online Teaching and Learning: Prospects and Limitations In The Light of Human Responses; IQAC of Bethune College on **August 18, 2020**.
8. Skill Enhancement Courses of UG Chemistry (H) CBCS Syllabus, C.U.; Department Of Chemistry and IQAC of Moulana Azad College and Asutosh College (State Level) on **August 24 – 25, 2020**.
9. International Webinar on Contagious Ailments and Their Influence on the Environment In Pandemic: Novel Chemical Exploration and Their Implementations are the Sole Gleam of Hope; Department of Chemistry, Sarsuna College on **August 29, 2020**.
10. Environmental Challenges Vs Ethical Values; Department of Philosophy, Dinabandhu Andrews College on **September 17, 2020**.
11. Hydrogen Bonding: A Simple Solution to Challenging Problems; Department Of Chemistry And IQAC of Narasinha Dutt College on **October 22, 2020**.
12. One-day workshop on 'Newly introduced Chemistry syllabus on 4-year Degree course of the University of Calcutta at Scottish Church College on **August 4, 2023**.

## 7. Membership in Academic Bodies:

Life member of The Indian Association for the Cultivation of Science

## 8. Patent/IPR/Copyright:

1. M. S. Shashidhar, T. Das, A process for the preparation of 2,4(6)-di-O-alkyl-myo-inositol 1,3,5-orthoformate sulfonic acid esters. (Indian patent filed, No. NF 382 / 97).
2. M. S. Shashidhar, T. Das, A process for the preparation of sulfonate esters of 2,4(6)-di-O-acyl-myo-inositol 1,3,5-orthoformates. (Indian patent filed, No. 2375 / DEL / 98).

## **9. Administrative Responsibility:**

- Member of IQAC
- Member of Leave Service Book and Terminal benefit Sub Committee
- Member of Routine Sub Committee
- Member of Women's Cell
- Member of Examination Sub Committee
- Member of Research and Publication Sub Committee