




University Faculty Details Page on DU Web-site

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Title	Dr.	First Name	Kaustuv	Last Name	Datta	Photograph
Designation	Assistant Professor					
Department	Department of Genetics					
Address	B02, Bachawat Block Basement Department of Genetics, UDSC, Delhi 110021					
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Email	kdatta@south.du.ac.in					
Web-Page						
Educational						
Subject	Institution	Year	Details			
Ph.D.	University Of Michigan, Ann Arbor	2005				
M.Sc.	Indian Institute of Technology, Mumbai	1997				
B.Sc.	University of Delhi	1995				
Career Profile						
Organization / Institution	Designation	Duration	Role			
Department of Genetics University of Delhi, South Campus	Assistant Professor	2010-present				
laboratory of Dr. Larry Gerace The Scripps Research Institute	Postdoctoral fellow	2006-2010				
laboratory of Dr. Janine Maddock University of Michigan, Ann Arbor	Postdoctoral fellow	2005				
laboratory of Dr. Janine Maddock University of Michigan, Ann Arbor.	Graduate student	1998-2005				
laboratory of Dr. P.J. Bhat Indian Institute of Technology, Mumbai, India	Masters student	1996-1997				
Research Interests / Specialization						
Role of accessory proteins in mitochondrial ribosome biogenesis and function in yeast <i>Saccharomyces cerevisiae</i>						
Teaching Experience (Subject / Courses Taught)						
Concepts in Cell and Molecular Biology 2010,2011 Fungal Genetics, 2011,2012 Gene Expression and Regulation, 2011,2012 Cell Biology and Biochemistry 2012-2017 Microbial Genetics 2014-2017 Yeast Molecular Genetics 2014-2016						

Honors & Awards

Publications (LAST FIVE YEARS)

- Huber M.D, Vesely P.W., **Datta K** and Gerace L. (2013) Erlins restrict SREBP activation in the ER and regulate cellular cholesterol homeostasis. *J. Cell Biol.* 203(3): 427–436
- Datta K**, Guan T, Gerace L. NET37, a nuclear envelope transmembrane protein with glycosidase homology, is involved in myoblast differentiation *J Biol Chem.* 2009 Oct 23;284(43):29666-76
- Liu G, Guan T, **Datta K**, Coppinger J, Yates J3rd, Gerace L. Regulation of Myoblast Differentiation by the Nuclear Envelope Protein NET39. *Mol Cell Biol.* 2009 Nov;29(21):5800-12.
- Fuentes JL, **Datta K**, Sullivan SM, Walker A, Maddock JR. (2007) In vivo functional characterization of the *Saccharomyces cerevisiae* 60S biogenesis GTPase Nog1. *Mol Genet Genomics.* 278(1): 105-23.
- Datta K**, Fuentes JL, Maddock JR. (2005) The yeast GTPase Mtg2p is required for mitochondrial translation and partially suppresses an Rrna methyltransferase mutant, *mrm2*. *Mol. Biol. Cell.* 16(2):954-63.
- Sikora AE, **Datta K**, Maddock JR. (2006) Biochemical properties of the *Vibrio harveyi* CgtA_v GTPase. *Biochem. Biophys. Res. Commun.* 339(4):1165-70.
- Sikora AE, Zielke R, **Datta K**, Maddock JR. (2006) The *Vibrio harveyi* GTPase CgtA_v is essential and is associated with the 50S ribosomal subunit. *J. Bacteriol.* 188(3):1205-10.
- Jiang M, **Datta K**, Walker A, Strahler J, Bagamasbad P, Andrews PC, Maddock JR. (2006) The *Escherichia coli* GTPase CgtAE is involved in late steps of large ribosome assembly. *J. Bacteriol.* 188(19): 6757-70.
- Datta K**, Skidmore JM, Pu K, Maddock JR. (2004) The *Caulobacter crescentus* GTPase CgtA_c is required for progression through the cell cycle and for maintaining 50S ribosomal subunit levels. *Mol. Microbiol.* 54(5):1379-92.

In Indexed/Peer Reviewed Journals

Articles

Conference Presentations

- Datta K, Mehra U, Verma Y, Jakar S. Regulators of mitochondrial ribosome assembly/activity in response to cellular energy requirements in *S. cerevisiae*. 10th Conference on Yeast Biology, JNU/Amity
- Datta K, Mehra U, Pandey D. Mitochondrial ribosome function/assembly: Regulation by accessory factors in *Saccharomyces cerevisiae*. International Conference on Yeast Biology, Kolkata Dec 11th 2015
- Datta K, Mehra U, Pandey D. Mitochondrial ribosome function/assembly: Regulation by accessory factors in *Saccharomyces cerevisiae*. 38th Mahabaleshwar Seminar on Mitochondria, Energetics and Metabolism during 27th - 30th January 2014
- Datta K, Guan T, Gerace L. NET37, a nuclear envelope transmembrane protein with glycosidase

homology, is involved in myoblast differentiation. Annual meeting, American Society of Cell Biology, December 2009, San Diego, CA.

Datta K, Guan T, Huber M, Gerace L. Role of the nuclear envelope localized glycosidase NET37 in myogenesis. Cold spring Harbor meeting titled “Dynamic organization of nuclear function” October 2008, CSHL, NY.

Datta K, Guan T, Huber M, Gerace L. Characterization of nuclear membrane proteins with putativeroles in lipid signaling. 13th Annual San Diego Cell Biology Meeting. April 2007, Salk Insititute, San Diego, CA.

Datta K, Maddock JR. Role of Yhr168wp in mitochondrial ribosome functions. 6th International Conference on Ribosome synthesis. June 2003, Arachaon, France.

Total Publication Profile

Books

In Indexed/Peer Reviewed Journals

Articles

Conference Presentations

Public Service/University Service /Consulting Activity

Warden, Aravalli men’s P.G Hostel. 2012-2015
DBT RA Selection committee member 2014-

Professional Societies Memberships

Project (Major/Grants/Collaborations)

- Functional characterization of a novel GTPase *YOR205c (GEP3)*, a mitochondrial ribosome associated factor in *Sacchromyces cerevisiae* **DBT-RGYI: 2011-2014**
- To characterize the potential role of a putative mitochondrial GTPase YDR336w, in regulating mitochondrial ribosome function in *Sacchromyces cerevisia* **CSIR: 2012-2015**
- Regulation of mitochondrial ribosome assembly by a novel Obg GTPase family member, *MTG2*, in *Saccharomyces cerevisiae* **DBT: 2012-2015**
- Regulation of mitochondrial function by a novel yeast clade specific DExH/D box helicase, *YDR332w (IRC3)*, in *Saccharomyces cerevisiae* **SERB: 2016-2019**

- Elucidating the control exerted on mitochondrial activity by *YDR336w(MRX8)*, a nuclear-encoded GTPase in *Saccharomyces cerevisiae* **BRNS: 2017-2020**
- To decipher the link between function of yeast clade specific mitochondrial RNA helicases and virulence of opportunistic pathogen *Candida albicans* **CSIR: 2017-2020**

Other Details

Signature of Faculty Member

(Signature & Stamp of Head of the Department)