COMPLETE BIO DATA OF THE APPLICANT

NAME **DR. CHINMOY SANKAR DEY**

CURRENT POSITION Professor
School Of Biological Sciences,
Indian Institute of Technology, Delhi,

POSTAL ADDRESS School Of Biological Sciences,
Indian Institute of Technology, Delhi,
Hauz Khas, New Delhi 110016.
website: www.csdey.org

email csdey@bioschool.iitd.ac.in

PHONE Office number : 011-26597523
Cell number: 9560279888

EDUCATION **Ph.D.** (Science) 1990*, Jadavpur University, India, (*Thesis submitted in 1988)

RESEARCH AND TEACHING EXPERIENCE

Indian Institute of Chemical Biology, Calcutta, India 1984 -1988
Ph.D. Fellow

California Institute of Technology, California, USA 1988 - 1991
Postdoctoral Research Fellow

Baylor College of Medicine, Texas, USA 1991 - 1992
Postdoctoral Research Associate

National Institute of Immunology, New Delhi, India 1992 - 1994
Pool Officer

National Institute of Pharmaceutical Education and Research, Punjab, India 1994 – 1999
Assistant Professor

National Institute of Pharmaceutical Education and Research, Punjab, India 1999 - 2002
Associate Professor

National Institute of Pharmaceutical Education and Research, Punjab, India 2002 - 2010
Professor

National Institute of Pharmaceutical Education and Research, Punjab, India 2004 - 2010
Head, Department of Biotechnology

Indian Institute of Technology-Delhi, New Delhi 2010-till date
Professor

RESEARCH INTERESTS

- **Insulin resistant (Type 2) diabetes :** ***Molecular mechanism(s)/ target(s) identification, Signal transduction.***
- **Alzheimer disease and Type 3 diabetes**
- **Drug resistance in Leishmania*: Molecular mechanism(s) /target(s) identification. (drug interactions, apoptosis, proteomics)***
- **Leishmanial motility.**

AWARDS, HONORS AND RECOGNITIONS:

1. SHANTI SWARUP BHATNAGAR AWARD in Medical Science, 2003 from Council of Scientific and Industrial Research, Govt. of India, New Delhi by the Prime Minister of India Dr. Manmohan Singh**.**

2. NATIONAL BIOSCIENCE AWARD 2003 from the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi by Dr. R.Chidambaram, Scientific Adviser, Prime Minister of India.

3. Organization of Pharmaceutical Producers of Indai-2005 scientist award in "Pharmaceutical Biotechnology" by Hon'ble Minister, Mr. Kapil Sibal.

4. CDRI Award in "Excellence in Drug Research in Life Sciences, 2008" from Central Drug Research Institute, Lucknow.

5. Fellow of **the National Academy, (FNA), Indian National Science Academy** (INSA), New Delhi., 2007 by Dr. R. Mashelkar, President, INSA and DG, CSIR.

6. Fellow of **the National Academy of Sciences (FNASc),** India, 2007.

7. J.C.Bose Fellowship from the Department of Science and Technology, Govt. of India; 2008

8. Lecture Award and Visiting Scientist, Diabetes Research Foundation, Madras.

9. Adjunct Faculty, Institute of Life Sciences, Hyderabad.

10. Citation of paper **Neuropharmacology** 2011, 60:910. (Impact factor: 5.273) by **Dr. James Watson (Nobel Laureate)** in his lecture on "60 years of discovery of DNA structure" at University of California, Los Angeles, during March, 2013 followed by publication in The Lancet, 2014, 383: 841.

11. Cover page: Trends in Endocrinology and Metabolism, 32, 341, 2021. **(Impact factor: 10.0)**

12. **Press Release in Nature: News India**

14. Hottest 25 Papers: Science Direct: Molecular and Biochemical Parasitology, 141, 1, 2005

15. Cover Page: Molecular and Biochemical Parasitology, 141, 1, 2005

16. BMC Cell Biology, 2008, **9:** 48: **Downloaded 1408 pdf reprints within 3 months of publication**

A COMPLETE LIST OF PUBLICATIONS: Citations: 2685; h-index:27 (on 04.07.23)

1.Yadav Y, Sharma M and **Dey CS**: PP1γ regulates neuronal insulin signaling and aggravates insulin resistance leading to AD-like phenotypes. **Cell Commun. Signal.** 2023, 21, 82. IF: 7.525

2.Yadav Y and **Dey CS**: PP2Cα aggravates neuronal insulin resistance leading to AD-like phenotype *in vitro*. **Biochem. Biophys. Res. Commun.** 2023, 644, 49. IF: 3.322

3. Mallick A, Sharma M and **Dey CS**: Emerging roles of PHLPP phosphatases in the nervous system. **Mol Cell Neurosci.** 2022, 123, 103789. IF: 4.626

4. Sharma M and **Dey CS**: PHLPP isoforms differentially regulate Akt isoforms and AS160 affecting neuronal insulin signaling and insulin resistance via Scribble. **Cell Commun. Signal.** 2022, 20, 179. IF: 7.525

5. Reddy I, Yadav Y and **Dey CS**: Cellular and Molecular Regulation of Exercise-A Neuronal Perspective. **Cell Mol Neurobiol.** 2022, 43:1551. IF: 4.23

6. Mallick A and **Dey CS**: Diabetes and Alzheimer's Disease: Association or Cause. **Curr. Sci.** 2022, In Press. IF: 1.169.

7.Yadav Y and **Dey CS**: PP2Cα positively regulates neuronal insulin signaling and aggravates neuronal insulin resistance being translated by insulin. **FEBS J.** 2022, 289:7561. IF: 5.622

8.Yadav Y and **Dey CS**: Ser/Thr phosphatases: One of the key regulators of insulin signaling. **Rev. Endocr. Metab. Disord**. 2022, 23:905. IF: 9.304

9.Manglani K and **Dey CS**: CDK5 inhibition improves glucose uptake in insulin-resistant neuronal cells via ERK1/2 pathway. **Cell. Biol. Int.** 2021, 46, 488. IF: 4.473

10.Sharma M and **Dey CS:** Role of Akt isoforms in neuronal insulin signaling and -resistance. **Cell. Mol. Life Sci.** 2021, 78, 7873. IF: 9.207

11.Sharma M and **Dey CS**: AKT isoforms-AS160-GLUT4: The defining axis of insulin resistance. **Rev. Endocr. Metab. Disord.** 2021, 22, 973. IF: 9.304

12.Mishra D and **Dey CS**: PKCα: Prospects in Regulating Insulin Resistance and AD. **Trends Endocrinol. Metab.** 2021, 32, 341. IF: 10.586

13.Mishra D and **Dey CS** : Type-2 Diabetes, a Co-morbidity in Covid-19: Does Insulin Signaling Matter? **Biochem. Soc. Trans.** 2021, 49, 987. IF: 4.919

14.Manglani K and **Dey CS:** Tankyrase inhibition augments neuronal insulin sensitivity and glucose uptake via AMPK-AS160 mediated pathway. **Neurochem. Int.** 2020, 141,104854. IF: 4.297

15.Mishra D and **Dey CS**: Protein Kinase C attenuates insulin signalling cascade in insulin-sensitive and insulin-resistant Neuro2-a cells. **J. Mol. Neurosc.** 2019, 69, 470. IF:3.0

16.Mukhopadhyay, A. G., & **Dey C. S.** Effect of inhibition of axonemal dynein ATPases on the regulation of flagellar and ciliary waveforms in Leishmania parasites. **Mol. Biochem. Parasitol** 2018, 225,27-37. IF:1.845

17.Varshney P and **Dey CS**: Resveratrol regulates neuronal glucose uptake and insulin sensitivity via P21-activated kinase 2 (PAK2). **Biochem. Biophys. Res. Comm.** 2017, 485, 372. IF: 3.322

18.Reddy GS, Mukhopadhyay AG, **Dey CS**: The p38 MAP kinase inhibitor, PD 169316, inhibits flagellar motility in Leishmania donovani. **Biochem. Biophys. Res. Comm**. 2017, 493,1425. IF:3.322

19.Mukhopadhyay AG and **Dey CS**: Role of calmodulin and calcineurin in regulating flagellar motility and wave polarity in Leishmania**.** ***Parasitol. Res.*** 2017, 116, 3221. IF:2.383

20.Reddy GS, Mukhopadhyay AG and **Dey CS:** Characterization of ciliobrevin A mediated dynein ATPase inhibition on flagellar motility of Leishmania donovani. **Mol Biochem. Parasitol.** 2017, 214, 75. IF:1.845

21.Choudhary AK and **Dey CS**: Nuclear corepressor (NCoR) is required to maintain insulin sensitivity in C_2C_{12} myotubes. **Cell Biol. Int.** 2016, 9999, 1-9. IF:4.473

22.Mukhopadhyay AG and **Dey CS**: Reactivation of flagellar motility in demembranated *Leishmania* reveals role of cAMP in flagellar wave reversal to ciliary waveform**. Sci. Rep.** 2016, 6:37308. IF:4.996

23.Arora A and **Dey CS**: SIRT2 regulates insulin sensitivity in insulin-resistant neuronal cells. **Biochem. Biophys. Res. Comm.** 2016, 474, 747-752. IF: 3.322

24.Varshney P and **Dey CS:** P21-activated kinase 2 (PAK2) regulates glucose uptake and insulin sensitivity in neuronal cells. **Mol. Cell. Endocrinol.** 2016, 429, 50-61**.** IF: 4.4

25.Mukhopadhyay AG and **Dey CS**: Two-headed outer- and inner-arm dyneins of *Leishmania sp* bear conserved IQ-like motifs. **Biochem Biophys Rep.** 2015, 4, 283-290. IF:0.52

26.Gupta A and **Dey CS**: PTEN, a widely known negative regulator of insulin/PI3K signaling, positively regulates neuronal insulin resistance. **Mol. Biol. Cell** 2012 23(19):3882-98. IF: 3.612

27.Gupta A, Bisht B, **Dey CS**: Focal adhesion kinase negatively regulates neuronal insulin resistance. **Biochim Biophys Acta.-Molecular Basis of Disease**.2012:1822:1030. IF: 6.633

28.Patel MI, Gupta A, **Dey CS**: Potentiation of neuronal insulin signaling and glucose uptake by Resveratrol: an involvement of AMPK. **Pharm. Rep.** 2011**:**63:1162. IF: 3.919

29.Shah AK, Gupta A and **Dey CS**: AICAR induced AMPK activation potentiates neuronal insulin signaling and glucose uptake. **Arch. Biochem. Biophys.** 2011, 509: 142. IF: 3.01

30.Gupta, A; Bisht, B and **Dey CS**: Peripheral insulin-sensitizer drug Metformin ameliorates neuronal insulin resistance and Alzheimer's-like changes **Neuropharmacology** 2011, 60:910. IF: 5.273

31.Kaur A, Singh R, **Dey CS**, Sharma, SS, Bhutani, KK, Singh, IP: Antileishmanial phenyl propanoids from Alpinia galangal (Linn.) Willd. **Ind. J. Exp. Biol.** 2010, 48:314. IF:0.944

32.Sharma S, Singh GM, Chavan HD and **Dey CS**: Proteomic analysis of wild type and arsenite resistant *Leishmania donovani*. **Exptl. Parasitol.** 2009, 123: 369. IF:2.132

33.Gupta A and **Dey CS**: PTEN and SHIP2 regulates PI3K/ Akt pathway through Focal adhesion kinase. **Mol. Cell. Endocrinol. 2009**, 309:55. IF: 4.4

34.Singh GM, Thakur M, Chakraborti PK and **Dey CS:** Evidence for the presence of R250G mutation at the ATPase domain of Topoisomerase II in an arsenite-resistant *L. donovani* that exhibits differential drug inhibition profile. **Int. J. Antimicrob. Agents** 2009, 33: 80. IF: 15.441

35.Bisht B and **Dey CS:** Focal Adhesion Kinase contributes to insulin-induced actin reorganization into a mesh harboring Glucose transporter-4 in insulin resistant skeletal muscle cells. **BMC Cell Biology** 2008, 9: 48. IF: 3.15

36.Bisht B, Srinivasan K and **Dey CS.** *In vivo* inhibition of Focal Adhesion Kinase causes insulin resistance. **J. Physiology,** 2008, 586/16: 3825. IF: 6.228

37.Singh GM , Chavan HD and **Dey CS:** Proteomic analysis of miltefosine resistant *Leishmania* reveals the possible involvement of eukaryotic initiation factor 4A, eIF4A. **Int. J. Antimicrob. Agents** 2008, 31: 581. IF:15.441

38.Badiwala, HS, Singh G, Singh, R, **Dey CS**, Sharma, SS, Bhutani, KK and Singh IP: Antileishmanial amides and lignans from *Piper cubeba* and *Piper retrofractum.* **J. Nat. Med.** 2007, 61: 418. IF:4.803

39.Singh, G, and **Dey CS.** Induction of apoptosis-like cell death by pentamidine and doxorubicin through differential inhibition of topoisomerase II in arsenite-resistant *L. donovani.* **Acta Tropica,** 2007, 103: 172**.** IF:3.222

40.Chavan, HD, Singh, G and **Dey CS.** Confocal microscopic investigation of tubulin distribution and effect of paclitaxel on post-translationally modified tubulins in sodium arsenite resistant *Leishmania donovani*. **Exptl. Parasitol.** 2007, 116 ; 320. IF:2.132

41.Bisht, B, Goel, HL and **Dey, CS.** Focal Adhesion Kinase regulates insulin resistance in skeletal muscle. **Diabetologia**, 2007, 50:1058. IF: 10.46

42.Verma, NK, Singh, G and **Dey, CS.** Miltefosine induces apoptosis in arsenite-resistant *Leishmania donovani* promastigotes through mitochondrial dysfunction. **Exptl. Parasitol.**, 2006, 116: 1. IF: 2.132

43.Singh, J, Verma, NK, Kansagra Sejal M, Kate, B and **Dey, CS**. Altered PPARγ expression inhibits myogenic differentiation in C2C12 skeletal muscle cells. **Mol. Cell. Biochem.** 2007, 294: 163. IF:3.842

44.Panchagnula, R, Bindra, P, Pillai, O, Kumar, N and **Dey, CS.** Stability of insulin under iontophoretic conditions. **Pharmazie** 2006, 61: 1014. IF:1.515

45.Verma, NK and **Dey, CS**. Anti-leishmanial drug miltefosine causes insulin resistance in skeletal muscle cells *in vitro.* **Diabetologia,** 2006, 49:1656. IF: 10.46

46.Jayanarayan, KG and **Dey, CS.** Altered tubulin dynamics, localization and post-translational modifications in sodium arsenite resistant *Leishmania donovani* in response to paclitaxel, trifluralin treatment and a combination of both and induction of apoptosis-like cell death. **Parasitology,** 2005, 131: 215. IF:3.243

47.Khurana, A and **Dey, CS.** Involvement of c-jun n-terminal kinase activities in skeletal muscle differentiation. **J. Muscle Res. Cell Motil.,** 2004, 25: 645. IF:3.352

48.Singh, G, Jayanarayan, KG and **Dey, CS.** Novobiocin induces apoptosis-like cell death in topoisomerase II over-expressing arsenite resistant *Leishmania donovani*. **Mol. Biochem. Parasitol.,** 2005, 141: 57. IF: 2.95

49.Verma, NK, Singh, J and **Dey, CS.** PPAR-γ expression modulates insulin sensitivity in C2C12 skeletal muscle cells. **Brit. J. Pharmacol.,** 2004, 143: 1006. IF**:** 9.473

50.Verma, NK and **Dey, CS**. Possible mechanism of miltefosine mediated death of *Leishmania donovani*. **Antimicrob. Agents Chemother.,** 2004, 48: 3010. IF: 5.938

51.Jayanarayan, KG and **Dey, CS.** Altered expression, polymerization and cellular distribution of α/β-tubulins and apoptotic-like cell death in arsenite resistant Leishmania donovani promastigotes. **Int. J. Parasitol.,** 2004, 34: 915. IF: 4.33

52.Miranda, ER and **Dey, CS**. Effect of chromium and zinc on insulin signaling in skeletal muscle. **Biol. Trace Elemt. Res**., 2004, 101,19. IF:4.081

53.Kumar, N, Kaul, CL. Ishrath, A and **Dey, CS**. Combination of metformin and thiazolidindiones restore insulin signalling in insulin-resistant cultured myotubes. **Life Sci., 2004**, 74: 1877. IF: 2.58

54.Kumar, N and **Dey, CS.** Restoration of impaired p38 activation by insulin in insulin resistant skeletal muscle cells treated with thiazolidinediones. **Mol. Cell. Biochem.,** 2004, 260: 55. IF:3.842

55.Pillai, O, Kumar, N**, Dey, CS,** Sivaprasad, SN and Panchagnula, R. Transdermal iontophoresis of insulin: III. Influence of electronic parameters. **Meth. Find. Exptl. Clin. Pharacol.,** 2004, 26: 399.

56.Verma NK and **Dey, CS** : RNAi-mediated gene silencing: mechanisms and its therapeutic applications. **J. Clin. Pharm. Therap.,** 2004, 29: 395. IF: 2.145

57.Pillai, O, Kumar, N, **Dey, CS,** Borkute, S, Nagalingam, S & Panchagnula, R: Transdermal iontophoresis of insulin. Part 1: A Study on the issues associated with the use of platinum electrodes on rat skin. **J. Pharm. Pharmacol.,** 2003, 55: 1505. IF: 4.81

58.Kumar, N and **Dey, CS.** Development of insulin resistance and reversal by thiazolidinediones in C2C12 skeletal muscle cells. **Biochem. Pharmacol.,** 2003, 65: 249. IF: 6.1

59.Khurana, AK and **Dey, CS.** p38 MAPK interacts with actin and modulates filament assembly during skeletal muscle differentiation. **Differentiation,** 2003, 71: 42. IF: 3.533

60.Jayanarayan KG and **Dey, CS.** Overexpression and increased DNA topoisomerase like enzyme activity in arsenite resistant *Leishmania donovani*. **Microbiol. Res.,** 2003, 158: 55.

61.Gargi, A, Kumar, N and **Dey, CS.** Differential regulation of MAP kinase isoforms by H2O2 in neuronal cells. **Neuro. Res. Comm., 2003, 33:** 17.

62.Verma, MVS, Ashokrai, Y, **Dey, CS** and Panchagnula, R: P-glycoprotein inhibitors and

their screening: a perspective from bioavailaility enhancement. **Pharm. Res.,** 2003, 48: 347. IF: 4.0

63.Kumar, N and **Dey, CS.** Metformin enhances insulin signaling in insulin –dependent and –independent pathways in insulin resistant muscle cells. **Brit. J. Pharmacol.,** 2002, 137: 329. IF**:** 9.473

64.Kumar, N and **Dey, CS.** Gliclazide increases IR tyrosine phosphorylation but not p38 activation in insulin-resistant myotubes. **J. Exptl. Biol.,** 2002, 205: 3739. IF: 3.308

65.Goel, HL and **Dey, CS**. Insulin stimulates spreading of skeletal muscle cells involving the activation of focal adhesion kinase, phosphatidyl inositol 3-kinase and extracellular signal regulated kinase. **J. Cell. Physiol.,** 2002, 193: 187. IF: 6.228

66.Goel, HL and **Dey, CS**. Role of protein kinase C during insulin mediated skeletal muscle cell spreading. **J. Muscle Res. Cell Motil.,** 2002, 23: 269. IF:3.352, IF:3.842

67.Goel, HL and **Dey, CS**. PKC regulated myogenesis is associated with activation of FAK, Cas, paxillin and formation of Cas-Crk complex leading to JNK activation. **Differentiation,** 2002, 70: 257. IF: 3.533

68.Goel, HL and **Dey, CS.**Focal adhesion kinase tyrosine phosphorylation is associated with myogenesis and modulated by insulin. **Cell Prolif.,** 2002, 35: 13. IF: 2.42

69.Khurana, AK and **Dey, CS**. Involvement of Elk-1 transcription factor in L6E9 skeletal muscle differentiation. **FEBS Lett.,** 2002, 527:119. IF: 5.622

70.Khurana, AK and **Dey, CS.** Subtype specific roles of mitogen activated protein kinases in L6E9 rat skeletal muscle cell differentiation. **Mol. Cell. Biochem., 2002, 238:** 27. IF:3.842

71.Ishrath, A, Kumar, N and **Dey, CS.** Differential activation of ERK and JNK by arsenite in mouse muscle cells. **Comp. Biochem. Physiol.,** 2002, 132: 375. IF**:** 4.52

72.Jayanarayan, KG and **Dey, CS** : Resistance to arsenite modulates expression of β- and γ-tubulin and sensitivity to paclitaxel during differentiation of *Leishmania donovani*. **Parasitol. Res.,** 2002, 88: 754. IF: 2.383

73.Goel, HL and **Dey, CS.** Insulin mediated tyrosine phosphorylation of myosin heavy chain and concomitant enhanced association of C- terminal src kinase during skeletal muscle differentiation. **Cell Biol. Int.,** 2002, 26: 557. IF:4.473

74.Nemmani, KVS, Jena, GB, **Dey, CS**, Kaul, CL and RamaRao, P. Cell proliferation and natural killer cell activity by polyherbal formulation, Immu-21 in mice. **Ind. J. Exptl. Biol.,** 2002, 40: 282.

75.Jayanarayan, KG and **Dey, CS.** Microtubules: Dynamics, drug interaction and drug resistance in Leishmania. **J. Clin. Pharm. Therap.,** 2002, 27: 313. IF:2.145

76.Singh DD, **Dey CS** and Bhutani, KK. Down regulation of p34cdc2 by an aqueous fraction of *Withania somnifera*. **Phytomed.,** 2001, 8: 492.IF: 2.33

77.Kaur, J and **Dey, CS**. Putative P-glycoprotein expression in arsenite resistant *Leishmania donovani* down-regulated by verapamil. **Biochem. Biophys. Res. Commun.,** 2000, 271: 615. IF: 3.322

78.Prasad, V, Kumar, SS and **Dey, CS.** Resistance to arsenite modulates levels of α-tubulin and sensitivity to Paclitaxel in *Leishmania donovani*. **Parasitol. Res.,** 2000, 86, 838. IF:2.383

79.Prasad, V and **Dey, CS. T**ubulin is hyperphosphorylated on serine and tyrosine residues in arsenite resistant *Leishmania donovani*. **Parasitol. Res.,** 2000, 86: 876. IF:2.383

80.Prasad, V, Kaur, J and **Dey, CS**. Arsenite resistant *Leishmania donovani* promastigotes express an enhanced membrane P-type ATPase activity sensitive to verapamil treatment. **Parasitol. Res.,** 2000, 86: 661. IF:2.383

81.Panchagnula, R and **Dey, CS**: Monoclonal antibodies in drug targeting. **J. Clin. Pharm. Therap.,** 1997, 22: 7. IF: 2.145

82.Gopalakrishnan, A, **Dey, CS,** Totey, SM, Pawshe, CH, Salunke,D, and Shaha, C. A testicular protein important for fertility has glutathione-S-transferase activity and is localised extracellularly in the seminiferous tubule. **J. Biol. Chem., 1995, 270:** 15675. IF:5.52

83.**Dey, CS**, Deitiker, PR and Epstein, HF. Assembly-dependent phosphorylation of myosin and paramyosin of native thick filaments in *Caenorhabditis elegans*. **Biochem. Biophys. Res. Commun.,** 1992, 186: 1528. IF: 3.322

84. **Dey, CS,** and Brokaw, CJ. Activation of Ciona sperm motility: Phosphorylation of dynein polypetides and effects of inhibition of tyrosine kinase activity. **J. Cell Sci.,** 1991, 100: 815. IF: 6.24

85**.** Haldar, S, **Dey, CS,** and Majumder, GC. A ficoll gradient method for isolation of immature spermatozoa of high purity and intactness from goat caput epididymis. **Arch. Androl.,** 1990, 24: 125.

86. **Dey, CS,** and Majumder, GC. Maturation specific type II cAMP-dependent protein kinase in goat sperm plasma membrane. **Biochem. Int.,** 1990, 21: 656.

87. **Dey, CS,** and Majumder, GC. Type I and Type II cAMP-dependent protein kinase in goat epididymal spermatozoa and their enriched activities in forward motile supermatozoa. **Biochem. Cell Biol. 1990**, **68:** 459. IF: 2.47

88. Majumder, GC, **Dey, CS,** Haldar, S and Barua, M : Biochemical parameters of initiation and regulation of sperm motility. **Arch. Androl.,** 1990, 24: 287.

89. **Dey, CS,** and Majumder, GC. A simple qunatitative method of estimation of cell intactness based on ethidium bromide fluorescence. **Biochem. Int.,** 1988, 17: 2, 367.

90. Majumder, GC, Haldar, S, **Dey, CS**, Barua, M and N. Roy. Occurrence of several ecto-proteins on goat spermatozoal surface that may regulate flagellar motility. **Ind. J. Biochem. Biophys.,** 1988, 25: 215. IF:1.476

91. **Dey, CS,** and Majumder, GC.Phosphatidyl inositol inhibition of a sperm cyclic AMP-independent protein kinase. **Biochem. Biophys. Res. Commun.,** 1987, 146: 422. IF: 3.322

92. **Dey, CS,** and Majumder, GC. Ecto-cyclic AMP receptor in goat epididymal spermatozoa and its change in activity during forward motility. **J. Cell. Biochem.,** 1987, 35: 259. IF: 3.54

93. Haldar, S, **Dey, CS,** and Majumder, GC. An ecto-cyclic AMP-independent protein kinase on goat supermatozoa and its change of activity during forward motility. **Biochem. Int.,** 1986, 13: 809.

Patents:

1) Kumar, N and **Dey, CS.** Skeletal cell model to screen anti-diabetic compounds. Accepted for grant of patent issue by the **USPTO (2006)** App. No. 09/984018(US), **Patent No. 7052910** B2(US)/2006.

Book chapters:

1) **C. S. Dey** and N. Kumar: Development of insulin resistance in cultured skeletal muscle cells and reversal by thiazolidineldione. **Non-alcoholic fatty liver disease** (NAFLD) 10th Annual Symposium, Ranbaxy Science Foundation.**2004**
2) G. Singh, K.G. Jayanarayan and **C. S. Dey**: Arsenite Resistance in Leishmania and Possible Drug Targets. Online at Eurekah.com, December, 2006 and in the book "**Drug Targets in Kinetoplastid Parasites**" in the Advances in Experimental Medicine and Biology, Edt: Dr. H.K.Majumder, Landes Bioscience, Vol. 625, page 1, **2007**.
3) G.C. Majumder, S. Saha, K. Das, D. Nath, A. Maiti, S. Dey, D. Roy, C. S. Dey, S. Mitra, A. Rana, J. Chakrabarty, S. Das, A. Bhoumik, S. Banerjee, M. Mandal, B. S. Jaiswal, P. Ghosh, A. Das, D. Bhattacharyya and S. R. Dungdung: Role of Sperm Surface Molecules in Motility Regulation. **Mammalian Endocrinology and Male Reproductive Biology,** Chapter 8, Edt. S. K. Singh. CRC Press, 197-243.**2015**, ebook isbn: 978-1-4987-2736-5.
4) Kaul, CL and Dey, CS: Future drug discovery-new techniques, new targets. World Market Research Centre; Business Briefing : **Future Drug Discovery, 2002,** 44.