

## Curriculum Vitae



1. Name : **DR. SUBIR CHANDRA DASGUPTA**
2. Designation: PROFESSOR OF ZOOLOGY(Retired)

3. Date of Birth : 17<sup>th</sup> September 1958

4. Present position:

**HONORARY EMERITUS PROFESSOR**

DEPARTMENT OF ZOOLOGY

RAMAKRISHNA MISSION VIDYAMANDIRA, HOWRAH 711202

Email: [subirdgupta@gmail.com](mailto:subirdgupta@gmail.com)

Mobile:+91 -9830471981 & 7003944569

5. **Academic Qualifications:**

*Please mention here the degrees (graduation onwards)*

College/ University from which the degree was obtained	Abbreviation of the degree
City College	B.Sc. ( 1979)
Calcutta University	M.Sc. ( 1981)
Calcutta University	Ph.D. ( 1990)

6. **Specialization:** Genetics and Molecular Biology, Pharmacology, Toxinology

**Positions Held/Holding:** 1985-1989 Lecturer in Zoology, Darjeeling Govt. College WB (**WBES**)  
1989-1996 Reader in Zoology, Jhargram College, West Bengal  
1996-2010 Associate Professor of Zoology, Maulana Azad College  
2010-2023 ( Sept)-Professor of Zoology, Maulana Azad College (**WBSES**)  
2023 (Oct)- Til date- Honorary Emeritus Profesora Belurh Vidyamandira, Howrah

**Teaching Experience:** 21 years Postgraduate teaching and 32 years Undergraduate teaching

7. **Research Interests:**

*Toxinology, Pharmacology, Screening of Bioactive compounds of Natural products*

8. **Research Guidance:**

*Number of researchers awarded Ph.D. degrees: 13*

### ***Name of the Students obtained Ph.D. under my supervision / co supervision & placement***

- a) Dr. Manika Das (Associate Professor in Nutrition & Dietetics, J D Birla College, Kolkata)
- b) Dr. Pallabi De (Senior Scientist & Instructor, University of Bristol)
- c) Dr. Surajit Karmakar (Associate Professor Institute of neuroscience & Nanotechnology, Chandigarh)
- d) Dr. Biplab Giri (Professor in Physiology, GourBanga University)
- e) Dr. Roshnara Mishra (Associate professor in Physiology, Calcutta University)
- f) Dr. Poulami Dutta (Senior Scientist Glaxo smith Kline, USA)
- g) Dr. Amrita Sarkar (PD Fellow, Translational Medicine, Thomas Jefferson University, Philadelphia, USA)
- h) Dr. Partha pratim Saha (Assistant Professor, J K College Purulia)
- i) Dr. Sanghamitra Mukherjee (Scientist C R & D Pharmacology Division Natreon Inc Ltd)
- j) Dr. Kalyani Saha (PDF, NICED)
- k) Dr. Sourav Saha (Assistant Professor, Jalpaiguri A C College)
- l) Dr. Sushmita Saha [PDF, University of Connecticut]
- m) Dr. Avijit Dey [Assistant professor, Belurh vidyamandir]
- n) Priyanka Sharma (Co supervisor), CoochBehar P B University 2021

**9. Research Projects: (2018-1996) Completed Projects: (04 as PI, 13 as Co-PI)**

#### **As Principal Investigator:**

#### **[2014-2018] National Tea Research Foundation: Major research Project completed (PI)**

Evaluation of the role of black tea extract (*Camellia assamica*) on pregnant rats and associated effect on pups after prenatal and post natal exposure. Project funded by NTRF, PI- Dr. S. C. Dasgupta, Sanction No.: 17 (305)/2013/4423 dated 11<sup>th</sup> March, 2014. 2014-17, Rs-13,55,760/- (2014-16)

#### **[2010-2013] UGC Major research Project completed (PI)**

1. Search for Bioactive components from shed snake skin extract - (Principal Investigator) Major Research project, 2010-13. Ref No- F No-38-130/2009(SR) Dated 19.12.2009 -2012. Rs-12,336/-
2. [2007-2009] Immunomodulatory & other physiological effects of edible snail *Belamya bengalensis* extract on experimental animals (Principal Investigator) UGC Minor Project (2007-2009) Ref No: PSW 133/06-07 dt 19.02.07-09. (Rs- 1,00,000/-)[Minor Project]
3. [2004-2006] Search for bioactive compounds from the flesh of Indian air breathing Murrells *Channa punctatus*. UGC minor research project (2004-2006) Principal Investigator Ref No: PSW 052/03-04 dt 12.03.04 (Rs-1,00,000/-)[Minor Project]

#### **As Co- Investigator:**

1. **DST (WB) Major Research project Sanctioned:** Identification and development of bio-active natural and synthetic small molecules to prevent pulmonary fibrosis. 2018 [PI-Dr. Samik Bindu, Department of Zoology, Panchanan Barma University, Coochbehar]

#### **ICMR Major Research Project completed**

1. [2006-2009] (ref: ID no.2002-01180 dt 17.07.2006) (Amount: Rs. 8.3 lakhs) Title: Development of scorpion venom antagonist from Indian medicinal plants.
2. [1990-1994] (ref: ID No.1990-03490 dt.01.01.1992) (Amount: Rs. 7.7 lakhs) Title : Search for plant constituents which antagonise snake venoms.

#### **UGC Major Research Project completed**

1. [2003-2006] (ref: UGC/417/Major Research (Sc)/03 dt.31.07.2003) (Amount: Rs. 5.18 lakhs) Title: Evaluation of toad skin extract as an anticancer agent in animal and human cell line.
2. [2007-2010] (ref: UGC/32-530/2006(SR) dt.08.03.2007) (Amount: Rs. 11.13 lakhs) Title : Studies on the antineoplastic compound (peptides & proteins) of the Indian toad (*Bufo malanostictus* Schneider) skin extract.
3. [2013-2015] (ref: UGC/42-536/2013(SR) dt.20.03.2013) (Amount: Rs. 6.37 lakhs) Title: Antiarthritic activity of krait venom: an experimental study.

## CSIR Major Research Project completed

- 1 [1995-1999] (ref: 37(0851)/94/EMR-II. Dt: 12.12.1994) (Amount : Rs.6.43 lakhs) Title : Physiological and Pharmacological studies on the venom of Indian King Cobra (*Ophiophagus hannah*).
- 2 [1999-2002] (ref: 37(1002)/98-EMR-II dt 17.03.1999) (Amount : Rs.6.5 lakhs) Title : Further studies on structure–function relation of therapeutically active compounds isolated from King cobra (*Ophiophagus hannah*) venom.

## DST Major Research Project completed

- 1 [2010-2013] (ref: SR/SO/HS0058/2008 dt.06.05.2010) (Amount: Rs.26.0 lakhs) Title: Anti-osteoporosis and anti-osteoarthritic activity of *Viviparous bengalensis* extract in experimental animals.

## LSRB(DRDO) Major Research Project completed

1. [2005-2008] (ref: DLS/81/48222/LSRB-76/EPB/2005 dt.27.01.2005) (Amount : Rs 14.77 lakhs) Title : Physiological studies on scorpion venom factors in experimental osteoporosis.

## National Tea Research Foundation (Kolkata)- MRP completed

- 1 [2003-2006] (ref: 17(47)/2003 dt.30.12.2002) (Amount: Rs 4.98 lakhs) Title : Immunomodulatory activity of black tea.
- 2 [2010-2013] (ref: 141/2010 dt.23.03.2010) (Amount: Rs 6.4 lakhs) Title : Molecular actions of black tea extract against experimental arthritis.

## Indian Herbs, Saharanpur, U.P- Major research Project completed

- 1 [1995-1997] (ref: 95-96/R&D/dt. 20 .11.1995) (Amount: Rs 0.7 lakhs) Title: Evaluation of immunomodulatory activity of Immune-21
- 2 [1996-1998] (ref: 96-97/MHP/1756 dt. 17 .05.1996) (Amount: Rs 0.63 lakhs) Title: Evaluation of antihistaminic actions of Zephyr.

## 10. Patents: 02 { 1 International and 1 National }

- I. Anti arrhythmic pharmaceutical composition and a process there of. A Gomes, Archita Saha, A.K. Biswas & S.C. Dasgupta (United States Patent: 7,018,659: Issued: March 28, 2006).
- II. A Hexahydro-2, 2-dimethyl-5-(2-nitroethyl)-[1,3] dioxolo [4,5-b] pyrazine compound. A. Gomes, S. Karmakar, Aparna Gomes, Tulika Das, A. Ghosh, A.K. Biswas, S.C. Dasgupta (ICMR. India. Patent No.235763. Issued 24<sup>th</sup> August 2009).

## 11. (a) List of Research Publications: ( 2022-1989) ; h- Index: 14 [ Google scholar citation-942] i- 10 index : 20

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2024</b> | <ol style="list-style-type: none"><li>1. Torisa Roy, Tamal Majumdar, Priyanka Sharma, Tamali Roy, Tapas Chandra Nag, Samik Bindu, <u>Subir Chandra Dasgupta</u> &amp; Hadida Yasmin. Anti-inflammatory property of ethanolic extract of <i>Cleoma spinosa</i> leaves in an In Vivo model of Delayed type Hypersensitivity. Jr of Pharmacology &amp; Pharmacotherapeutics, 1-9, 2024</li><li>2. Priyanka Sharma, Subir Chandra Dasgupta, Hadida Yasmin. Antioxidant and wound healing property of White tea (<i>Camellia sinensis</i>) extract compared to Black and Green tea on in vitro model. Proceedings of the International conference on challenges and prospects of biodiversity conservation in Eastern Himalaya ( ICCPBC-2023) Chapter 26, ISBN- 978-93-5860-793-2</li></ol> |
| <b>2022</b> | <ol style="list-style-type: none"><li>1. Pradip Bhattacharjee , Sanjukta Manna &amp; <u>Subir Chandra Dasgupta</u>. New generation antivenoms and their neutralizing efficacy against snake bite envenoming Jr of Scientific Research 66(5) 2022.</li><li>2. Rajarshi Ghosh, Souvik Das, Deepshikha Mitra, Pradip Bhattacharjee &amp; <u>Subir Chandra Dasgupta</u>. Short term effect of <i>Naja naja</i> Shed skin extract on histopathology of Testis. Epididymis and vas deference of swiss albino mice Uttar Pradesh Journal of Zoology, 43(7) 52-59, 2022.</li></ol>                                                                                                                                                                                                             |
| <b>2021</b> | <ol style="list-style-type: none"><li>1. Avijit Dey, Ritwika Chatterjee, Mousumi Das, Monalisa Sinha, Rimita Saha, Baishakhi Pal, <u>Subir Chandra Dasgupta</u> Effect of black tea (<i>Camellia sinensis</i>) extract on thyroid physiology during pregnancy in experimental animal model. , Proceedings of Zoological Society, <a href="https://doi.org/10.1007/s12595-020-00354-2">https://doi.org/10.1007/s12595-020-00354-2</a>, 2021.</li></ol>                                                                                                                                                                                                                                                                                                                                  |

2. Kalyani saha, Sourav Ghosh, Aparna Gomes, **Subir Chandra Dasgupta** & Antony Gomes. Cobra venom neutralization by gold nano particle 2 hydroxy 4 methoxy benzoic acid. Ind Journal of Pharmacol, 53(1), 73-75, **2021**
  3. Sujit Kumar Bhowal, **Subir Chandra Dasgupta**, Susanta Roy Karmakar, Arnab kar, Eerondyouti Chakraborty, Monalisa Ghosh, Poulami Dey, Impact of Urea on monogastric mammalian system: a case study. Uttar Pradesh journal of Zoology, 42(1), 40-50, **2021**.
  4. Roy S, Ghosh S, Ghorai N, Saha S, **Dasgupta SC** and Chaki KK. Effects of the Shed Skin Aqueous Extract of the Non-Poisonous Snake, *Ptyas mucosus* (Linnaeus, 1758) on the Development of the Ovotestis of *Onchidium tigrinum* (Stoliczka 1869) (Systellommatophora: Eupulmonata: Gastropoda) International Journal of Zoology and Animal Biology Volume 4 Issue 5, DOI: 10.23880/izab-16000322, 2021.
- 2020**
1. Sourav Ghosh, Subir Chandra Dasgupta, Anjan Kumar Dasgupta, Aparna Gomes and Antony Gomes. Gold nanoparticles (AuNPs) conjugated with Andrographolide ameliorated viper (*Daboia russellii*) venom induced toxicities in animal models. Jr of Nanoscience & Nanotechnology, 20, 3404-3414, **2020**.
  2. Avijit Dey, K Chakraborty, A Gomes & **S. C. Dasgupta**, Black tea (*Camellia sinensis*) extract induced changes on placenta can alter fetal and neonatal bone health in experimental animal model, Adv Clin Toxicol, 5(4), 201, **2020**.
- 2019**
1. Kaustav Chakraborty, Avijit Dey, Arindam Bhattacharyya and **Subir Chandra Dasgupta** Anti-fibrotic effect of black tea (*Camellia sinensis*) extract in experimental pulmonary fibrosis. Tissue and Cell, 56: 14-22, **2019**.
- 2018**
1. Avijit Dey, Antony Gomes, **Subir Chandra Dasgupta** Black Tea (*Camellia sinensis*) Extract induced Prenatal and Postnatal Toxicity in Experimental Albino rats. Pharmacog. Mag 13(52): S769-S774, **2018**.
- 2017**
1. Sanghamitra Mukherjee, Antony Gomes **Subir Chandra Dasgupta**. Prenatal toxicity of NNSS2 isolated from *Naja naja* shedded skin in pregnant rats Journal of Toxin 4,1, 1-6, **2017**
  2. Black tea extract induced changes in Blood & Liver parameters on pregnant & lactating experimental albino rats. Avijit Dey, Antony Gomes & **Subir Chandra Dasgupta**. Pros.Zoo.Soc DOI 10.1007/s12595-017-0229-8. **2017**.
  3. Sanghamitra Mukherjee, Antony Gomes, **Subir Chandra Dasgupta**. Zoo Therapeutic uses of Snake Body Parts in Folk & Traditional Medicine. Journal of Zoological Research Volm 1, Issue 1, 1-9, 2017.
  4. Sourav Ghosh, Jayeeta Sengupta, Kalyani Saha, **Subir Chandra Dasgupta**, Aparna Gomes, Antony Gomes. Green synthesis of gold nanoparticle using the herb *Hygrophila spinosa*, T Anders leaf extract and evaluation of hematopoeitic antioxidant properties in experimental Swiss albino male mice. Materials Focus, Volm6(1), 47-53, **2017**
- 2016**
1. Antony Gomes, Susmita Ghosh, Sourav Ghosh, Kalyani Saha, Partha P Saha, **Subir C Dasgupta**, Aparna Gomes. Anti-osteoarthritic activity of *Bungarus fasciatus* venom fraction (BF- F47) involving molecular markers in the rats. Toxicon 118, 43-46., doi: 10.1016/j.2016
  2. Antony Gomes Partha Pratim Saha, Tanmoy Bhowmick, Anjan Kumar Dasgupta and **Subir Chandra Dasgupta** .Protection against osteoarthritis in experimental animals by nanogold conjugated snake venom protein toxin gold nanoparticles *Naja kaouthia* cytotoxin 1. Indian J Med Res. 144(6): 910–917, 2016.
  - 3.. Sanghamitra Mukherjee, **Subir Chandra Das Gupta** and Antony Gomes Estrous cycle cessation caused via activating the apoptotic pathway by NNSS2 isolated from *Naja naja* shedded skin. Journal of Toxin ,3,1 , **2016** ..
  4. Susmita Ghosh, Partha Pratim Saha, **Subir C Dasgupta** & Antony Gomes. Antinociceptive, anti-inflammatory and anti-arthritis activities of *Bungarus fasciatus* venom in experimental animal models. Indian Journal of Experimental Biology, 54, 569-576, **2016**.

- 2015**
1. Kalyani Saha, Sourav Ghosh, Susmita Ghosh, **Subir Chandra Dasgupta**, Aparna Gomes, Antony Gomes. Neutralization of *Naja kaouthia* venom induced toxicity and stress response by *Vitex negundo*-gold nanoparticle (VN-GNP) in experimental animal models. Journal of Toxins, 2(1), 8 (2015).
  2. Susmita Ghosh, Kalyani Saha, **Subir Chandra Dasgupta** and Antony Gomes. In vitro and In vivo Anti-Arthritic and Anti-Inflammatory Activity of *Bungarus fasciatus* Venom. Journal of Toxins, 2(1), 5-10 (2015).
  3. Sourav Ghosh Susmita Ghosh, **Subir Chandra Dasgupta** & A Gomes Neutralisation of *Naja kaouthia* venom induced toxicity and stress response by *Vitex negundo*-Gold Nanoparticle (VnGnp) in experimental animal model., Journal of Toxin , 2(1) 8-12, 2015.
- 2014**
1. Antony Gomes, Poulami Datta, Amrita Sarkar, **Subir Chandra Dasgupta**, Aparna Gomes. Black Tea (*Camellia sinensis*) extract as an immunomodulator against immunocompetent and immunodeficient experimental rodents. Oriental Pharmacy and Experimental Medicine, 14, 37-45, 2014.
  2. Poulami Datta, Sanghamitra Mukherjee, **Subir Chandra Dasgupta**, Antony Gomes. Anti arthritic activity of theaflavin (Tf), chief flavonoid of black tea against adjuvant induced Rheumatoid arthritis in experimental animal models. Oriental Pharmacy and Experimental , 14,245-253,2014.
- 2013**
1. Amrita Sarkar, Poulami Datta, Aparna Gomes, **Subir Chandra Das Gupta**, Antony Gomes. Anti-osteoporosis and anti-osteoarthritis activity of fresh water snail (*Viviparous bengalensis*) flesh extract in experimental animal model. Open Journal of Rheumatology and Autoimmune Diseases, 3, 10-17. 2013.
  2. Sanghamitra Mukherjee, **Subir Chandra Dasgupta** & Antony Gomes.Effect of *Naja naja* Laurenti shed snake skin extract on estrous cycle, hormone cytokine profile, histopathology of ovary & uterus of Swiss albino rats. Indian Journal of Experimental Biology,51,235-240, 2013
- 2011**
1. Antony Gomes Md Aftab Alam. Sourav Bhattacharya **Subir Chandra Dasgupta** Sanghamitra Mkhherjee Shamik Bhattacharya Aparna Gomes .Ethno biological usage of zoo products in rheumatoid arthritis. Indian Journal of Experimental Biology, 49, 563-573.2011
  2. Debarshi Basu, **Subir Chandra Dasgupta**, S.K. Das and T N Khan. The genetics of rarity and extinction. Tribal World, 1,58-72, 2011
- 2010**
1. Antony Gomes, Puspak Bhattacharya, Roshnara Mishra, Ajoy Kr. Biswas, **Subir Chandra Dasgupta**, Biplab Giri, Anindita Debnath, Subho Dasgupta, Tanaya Das, Aparna Gomes. Anticancer Potential of Animal Venoms and Toxins. Indian Journal of Experimental Biology, 48 (2), 93- 103, 2010.
- 2009**
1. Halder S, Dasgupta S, Gomes A, Giri B, **Dasgupta S. C.**, Biswas A, Mishra A, Gomes A. A high molecular weight protein Bengalin from the Indian black Scorpion *Heterometrus bengalensis* (C.L. Koch) venom having anti – osteoporosis activity in female albino rats. Toxicon 53(1) 60-68, 2009.
- 2007**
1. Antony Gomes, Biplab Giri, Archita Saha, R. Mishra, **Subir C. Dasgupta**, A Debnath, Aparna Gomes. Bioactive molecules from amphibian skin: Their biological activities with reference to therapeutic potentials for possible drug development. Indian Journal of Experimental Biology, 45, 579-593, 2007.
- 2006**
1. B Giri, A gomes, A Debnath, A Saha, A K Biswas, **S. C. Dasgupta** & A Gomes. Antiproliferative, cytotoxic and apoptogenic activity of Indian Toad (*Bufo melanostictus*, Schneider) skin extract on U937 and K562 cells. Toxicon 48 (4)388-400, 2006..
  2. Archita Saha, Aparna Gomes, B. Giri, A K Chakravarty, A K Biswas, **S. C. Dasgupta** and A Gomes, Occurrence of non-protein low molecular weight cardiotoxin in the Indian King cobra (*Ophiophagus hannah*) venom. Indian Journal of Experimental Biology. 44, 279-285 ,2006,
- 2005**
- 1.. D Muhuri, **S. C. Dasgupta** & A Gomes. Lethal oedema, haemorrhagic activity of spotted butterflyfish (*Scatophagus argus*) sting extract and its neutralization by antiserum and pharmacological antagonist. Indian Journal of Experimental Biology, 43,493-497,2005.
  - .2. S Karmakar, A K Biswas, **S. C. Dasgupta** & A Gomes. Haematinic and immunomodulatory effects of honey on immunocompetent immunodeficient and splenectomised experimental rodents. Phytomedica,5,107-111.2005.

- 2004**
1. S Karmakar, Tulika Das, A Ghosh, S. C. Dasgupta, A K Biswas & A Gomes Isolation and partial structural evaluation of a cardiotoxic factor from Indian common murrel (*Channa striatus*). Indian Journal of Experimental Biology, 42, 271-278, **2004**.
  2. S. Karmakar, D. C. Muhuri S. C. Dasgupta A K Nagchoudhury & A Gomes. Isolation of a haemorrhagic protein toxin (SA-HT) from the Indian venomous Butterflyfish (*Scatophagus argus* Linn) sting extract. Indian Journal of Experimental Biology, 42, 452-460, **2004**.
  3. D. Muhuri, S. Karmakar. S. C. Dasgupta, A K Nagchowdhury & A Gomes. Pharmacological studies on the venomous spotted butterflyfish (*Scatophagus argus* Linn) sting extract on experimental animals Indian Journal of Experimental Biology, 42, 461-467, **2004**.
- 2002**
1. Surajit Karmakar, S. C. Dasgupta and A. Gomes. . Pharmacological and haematological study of the shol fish ( *Channa striatus* ) skin extract on experimental animal. Indian Journal of Experimental Biology, 115-118, **2002**.
  2. Pallabi De, S. C. Dasgupta & A Gomes. A lethal neurotoxic protein from the Indian King Cobra (*Ophiophagus hannah*) venom. Indian Journal of Experimental Biology, 40, 1359-1364, **2002**.
  3. Sanjoy Kumar Pal, Aparna Gomes, S. C. Dasgupta & Antony Gomes Snake venom as therapeutic agents: From toxin to drug development. Indian Journal of Experimental Biology, 40, 1353- 1358, **2002**.
  4. A Gomes, Pallabi De, & S. C. Dasgupta. Occurrence of an unique protein toxin from the Indian King Cobra (*Ophiophagus hannah*) venom. Toxicon, 39, 363-370, **2001**.
- 2001**
1. A Gomes, Manika Das & S C Dasgupta. Haematinic effect of *Hygrophila spinosa* T Anderson extract on experimental Animals. Indian Journal of Experimental Biology. 39, 381-382, **2001**.
  2. Manika Das, S. C. Dasgupta & A Gomes. Isolation, purification and partial chemical characterization of a lethal factor from common Indian toad (*Bufo melanostictus schneider*) skin extract. Indian Journal of Experimental Biology, 39, 781-785, **2001**.
- 2000**
1. Manika Das, B N Mallick, S. C. Dasgupta & A Gomes. A sleep inducing factor from the common Indian Toad (*Bufo melanostictus*) skin extract. Toxicon, 38, 1267-1281, **2000**.
  2. A Gomes, Manika Das, M I Alam & S. C. Dasgupta. . Bidder's organ extract induced anaphylaxis in experimental animals. . Indian Journal of Experimental Biology, 38, 177-179, **2000**.
  3. A Gomes and S. C. Dasgupta. Antihistaminic and antianaphylactic properties of polyherbal immunomodulator pulmoeflex. . Phytomedica, 21, (1&2), 9-15, **2000**.
- 1998**
1. Pallabi De, S. C. Dasgupta & A Gomes. . Immunopotentiating and Immunoprophylactic activity of Immune 21, a polyherbal product. Indian Journal of Pharmacology, 30, 163-168, **1998**.
  2. Manika Das, S. C. Dasgupta & A Gomes. Immunomodulatory and antineoplastic activity of common Indian Toad (*Bufo melanostictus Schneider*) skin extract. Indian Journal of Pharmacology, 30, 311-317, **1998**.
  3. Manika Das, S. C. Dasgupta & A Gomes. Toad (*Bufo melanostictus* Schneider) skin extract induced haematological and biochemical changes in rodents. Indian Journal of Pharmacology, 30, 68-72 **1998**.
  4. A Gomes, M I Alam, D C Muhuri, B Auddy & S. C. Dasgupta. A lethal Cardiotoxic protein isolated from the Bidder's organ of the common Indian Toad (*Bufo melanostictus* Schneider. Indian Journal of Experimental Biology, 34, 211-215, **1996**.
- 1996**
5. A Gomes, M I Alam, B Auddy & S. C. Dasgupta. Isolation purification and partial characterization of a haemolytic protein from the Bidder's organ of the toad *Bufo melanostictus* (Schneider). . Indian Journal of Experimental Biology, 32, 119-123, **1994**.
- 1994**
1. S. C. Dasgupta, A Gomes & S C Lahiri. Detection and distribution of scorpion (*Heterometrus bengalensis*) venom in rabbit tissue by enzyme linked immunosorbent assay. Indian Journal of Experimental Biology, 29, 691-692, **1991**.
- 1991**
1. S.C. Dasgupta, A Gomes, Aparna Gomes, A Basu & S C Lahiri. Isolation purification and immunological evaluation of a toxin (Toxin Hb) isolated from the scorpion *Heterometrus bengalensis* (C.L. Koch) venom. Indian Journal of Experimental Biology, 28, 114-148, **1990**.
- 1990**
2. A Basu, A Gomes, Aparna Gomes, S. C. Dasgupta & S C Lahiri. Isolation and purification of a lethal scorpion toxin with neuromuscular blocking activity. Indian Journal of Experimental Biology, 28, 451-454, **1990**.
  1. S. C. Dasgupta, A Gomes, Aparna Gomes, A Basu & S C Lahiri. Immunological cross reactivity and paraspecificity of the scorpion *Heterometrus bengalensis* antivenom. Indian Journal of Medical Research, 90, 140-146, **1989**.
  2. A Basu, A Gomes, Aparna Gomes, S. C. Dasgupta & S C Lahiri. Pharmacological actions of the venom of the scorpion *Lychas laevifrons* with special reference to its neuromuscular activity. Indian Journal of Experimental Biology, 27, 1028-1031, **1989**.
- 1989**
3. S. C. Dasgupta, A Gomes, Aparna Gomes, A Basu & S C Lahiri, Comparative detoxification and protection of scorpion (*Heterometrus bengalensis*) venom by toxoid antiserum. Indian Journal of Experimental Biology, 27, 568-537, **1989**.
  4. S. C. Dasgupta, A Gomes, Aparna Gomes, A Basu & S C Lahiri. Pharmacological and immunological evaluation of scorpion (*Heterometrus bengalensis*) venom antiserum. Indian Journal of Experimental Biology, 27, 47-51, **1989**.

**10 ( b) Books/Book chapters: 03**

- Animal Derivatives as a source of Biofuel, Chapter 25 In: Biofuels: Scientific Explorations and Technologies for a sustainable Environment. Edited by S P Banik and D Bagchi .E book ISBN: 9781003350606, CRC Press, **2024**.
- Bioactive Compounds from Medicinal plants and its Therapeutic Uses in the Traditional Healthcare system.In: Medicinal Plants: Biodiversity, Biotechnology and Conservation. Edited by : S Jha and M Halder pp-525-537. Springer Singapore ,doi.org/10.1007/978-981-19-9936-9,**2023**.
- Study Material for Post Graduate course in Zoology, Laboratory Course, Paper v, Group-B, Netaji Subhas Open University, 2006 ( Writer)
- Study Material for Post Graduate Course in Zoology, Molecular Biology, Paper III, Group:B(II) 2008, ( Editor).
- Study material for Postgraduate Course in Zoology, Biotechnology, Paper- IV, Group-A, 2008 ( Writer- Chapter 4, 5, & 10.)

**10(d) Popular Scientific article/video film :**

- 1 .Toad skin pharmacy: In Natural History, August, 2000.
- 2. Sleep inducing toad : In BBC wild Life, January 2001
- 3. Venomics: A bioinformatics approach in venom research 2010
- 4. **Video Film: “Working Animal- The Medicine Maker” Discovery Channel, 2008**

**10 (c) Conference/Seminar volumes: 38 (National 30 + International 08 )**

**12. Membership of learned societies:**

*Life Member*, Indian Pharmacological Society.  
*Life Member*, Indian Science Congress Association.  
*Life Member*, The Zoological Society.  
*Life Member*, Indian Association of Biomedical Scientist.  
*Life Member*, Toxinological Society of India.  
*Life Member*: The Asiatic Society.

**Fellow( FZS) :The Zoological Society.**

**15. Other notable activities**

- Member Review Committee for Research center in affiliated colleges. Vidyasagar University 2023 -Till date
- Member Board of research Advisory Committee. St Xavier’s College, Kolkata 2023
- Member Board of Research Studies, Burdwan University (2021-till date)
- Member Board of Research Studies, West Bengal State University (2022-till date)
- Member Board of Research Studies, Coochbehar Panchanan Burma University (2021-till date)
- Member Institutional Biosafety Committee Coochbehar Panchanan Burma University (2021-2024)
- Coordinator DBT STAR College scheme for Life Science departments, Maulana Azad College (20012 – 2021)
- Member UG Board of studies in Zoology, Calcutta University [ 2004-08]
- Member UG Board of studies in Zoology, Calcutta University [ 2015-2023 Sept]
- Member UG Board of Studies, State University, Barasat [2016-2020]
- Member PG Board of studies Netaji Subhas Open University [2005 -2008] [ 2012-2021].
- Member PG Board of studies, Bethune College Kolkata [2005-2009] [2009- 2019]
- Member PG Board of studies, Bangabasi College, Kolkata [2005-2009] [2009- 2016] [2017—2019]
- Member PG Board of Studies, Barasat Govt. College, Kolkata [ 2012 –2016] [ 2017-Till date]
- Member PG Board of studies, Dinobandhu Andrews College [ 2017—2019]
- Member PG Board of Studies Zoology, Calcutta University [2019-2023 Sept]
- Member & Convener, PG Board of studies, Maulana Azad College, Kolkata [2005-2008]
- Head & Chairman, PG Board of St u d i e s , M a u l a n a A z a d C o l l e g e [ 2008-2018].
- Member, syllabus committee West Bengal Higher Secondary Council [2009-2012]
- Member Advisory Committee, DBT Star College Scheme, Presidency College, [2010-2013]
- Co-Ordinator , DST – FIST Programme , Maulana Azad College[2010-15]
- Co- Ordinator-DBT Star College Programme, Maulana Azad College [2011-16]
- Member DBT Star College programme Lady Braborne College, Kolkata [2012 –2016]
- Member, DBT Star College Programme Jhargram Raj College, [2021]
- Member, DBT Star College Programme RKMVC College, [2021- 2023]
- PG Board of Studies, External Member, Burdwan University [2014-2021]
- Board of Studies External member, Belurh Vidyamandir [ 2017 –till date]
- Resource person, JBNSTS, Kolkata [ 2017 –till date]
- Editorial Board Member: Journal of Zoology [2017-2019]
- Resource person, Deptt of Zoology, Guwahati University 2021
- Academic Advisor, West Bengal Higher Education Council, 2021
- Advisory Member, DBT Star College Screening Committee, New Delhi, 2021- Till date