

## *Curriculum Vitae*

1. **NAME: DR. CHANDAN KUMAR JANA, Ph.D., Post-Doc. (USC, Los Angeles)**

2. **PRESENT POSITION: Principal at SAMMILANI MAHAVIDYALAY, EM BYPASS, BAGHAJATIN, KOLKATA 700094**

3. **EXPERIENCE IN COLLEGE ADMINISTRATION:**

a) Principal at Purash-Kanpur Haridas Nandi Mahavidyalaya, Kanpur, Howrah (affiliated to the University of Calcutta) from Sept 2018 to June 2023.

b) Teacher-in-charge at Panchmura Mahavidyalaya, Panchmura, Bankura (Dec. 2014 to July 2018)

c) Coordinator of NAAC steering Committee at Panchmura Mahavidyalaya July 2003 to March 2008

d) Member of the Governing Body at Panchmura Mahavidyalaya for more than 10 years starting from 2003

e) Acted as convener/member of several important committees like Finance Committee, Development and Purchase Committee, Academic Council, etc. at Panchmura Mahavidyalaya

4. **TEACHING EXPERIENCE:**

a) Taught Chemistry General and Hons. papers at Panchmura Mahaviyalaya (2001 to 2018) and Chemistry General papers at Purash-Kanpur Haridas Nandi Mahavidyalaya since Sept. 2018.

b) Taught Environmental Studies at Panchmura Mahavidyalaya from 2001 to 2018 and at Purash-Kanpur Haridas Nandi Mahavidyalaya since 2018

5. **EDUCATIONAL QUALIFICATION**

a) **M.Sc.** in Chemistry in 1991 from the University of Calcutta

b) **Ph. D.** in Science in 2001 of Jadavpur University (research work done at Indian Inst. of Chem. Biology, Kolkata on Immuno-biochemistry)

6. **RESEARCH EXPERIENCE:**

a) **Post-doctoral research fellow (Sept. 1999- to Aug. 2001)** at Univ. Southern California, Los Angeles

**Other research programmes:**

b) **Research Associate** (1998) in the field of Molecular biology of microorganisms at Department of Physiology, Calcutta University.

c) **Research Assistant** (1999) in the field Study of Protein Kinase C at NICED, Kolkata.

d) **Project Fellow** at IIT, Kanpur (1992) in the field of Cryptand Chemistry

7. **PATENT: Jana CK, Das N and Chattopadhyay GN (2019) Improved method of Extracting Humic Acids, Intellectual Property India, 309209 (March 2019)**

8. **RESEARCH PROJECTS COMPLETED:**

a) Anti-oxidant activity in the medicinal plants of Bankura (UGC sponsored)

b) Development of simple, cost effective and fast method for extraction of humic acids from vermicompost and their characterization (UGC sponsored)

- c) Evaluation of age associated alterations in anti-oxidative defence in *Saccharomyces cerevisia* and its role in accumulation of oxidative stress (CSIR sponsored)
- d) Setting up of herbal garden at Panchmura Mahavidyalaya for generating awareness on preservation of medicinal plants and their usefulness among students, staff, teachers and local people (AYUSH, Govt. of India sponsored).
- e) Post-translational modifications of mammalian proteins in oxidative stress and during ageing (Post-doctoral research project at USC, Los Angeles, funded by NIH, USA)

## 9. PUBLICATIONS:

### A. Research Articles Published in peer-reviewed Journals

1. Das N and **Jana CK** (2021) Aldolase is a Target of Oxidative Modifications: Evidence from *Drosophila melanogaster*. *J. Scientific Research* **65**(01): 129-135
2. Mukherjee M, Nandi A, Chandra K, Saikia S K, **Jana CK** and Das N (2020) Protein extraction from *Saccharomyces cerevisiae* at different growth phases. *J. Microbiological Methods* **172**(5330):105907
3. Nandi A, Yan L-J, **Jana CK** and Das N (2019) Role of Catalase in Oxidative Stress- And Age-Associated Degenerative Diseases. *Oxidative Medicine and Cellular Longevity*. **2019**(9):1-19
- 4 **Jana CK (2017)** Risk of health hazards from synthetic dyes used in fast foods and as food preservative in India – a mini review. *J. Inst. Chemists (India)*; **89** (6):185-195
5. Das C, Das N and **Jana CK\*** (2017). Differential extraction of flavanoids, total phenols and reducing sugars using water, methanol and ethyl acetate from medicinal plants of Bankura. *J. Inst. Chemists (India)*; **89** (5):146-157
6. **Jana C K\***, Das N, Chattopadhyay G N. (2016). Improved extraction of humic acids from vermicomposted organic waste by a column-based continuous elution method. *Separation Science and Technology*. 2016, **51**:2780-2789
7. Das N and **Jana CK\*** (2016). Tissue-specific effect of Coenzyme Q supplementation on the oxidative post-translational modification in the rat. *Open Pharmaceutical Science Journal*, 2016, **5**:196-202
8. Das N and **Jana CK\*** (2016). Calorie restriction attenuates the age-associated decrease in  $\alpha$ -subunit of F1 ATP Synthase activity in the mouse skeletal muscles. *Current and Nutrition & Food Science*, 2016,**12**:1-5
9. **Jana, CK\*** and Das N (2015). Effect of a calorically restricted dietary regime on the oxidative post-translational modifications of plasma proteins in mice and rats. *J. Indian Chem. Soc.*(2015), **92**:1263-9.
10. Das N and **Jana C. K\***. (2015). Age-associated oxidative modifications of mitochondrial subunit of F1 ATP synthase from mouse skeletal muscles. *Free Radical Research* (2015),**49**:954-61
11. **Jana, C.K\***. and Das, N. (2014).Tissue-specific attenuation of oxidative post-translational modifications in the mouse supplemented with dietary alpha-tocopherol. *J. Inst. Chemists (India)*, **86** (6):161-171
12. **Jana, C.K\***. and Das N (2014).Role of dietary antioxidants in improving health – a minireview. *J. Inst. Chemists (India)*. **86** (Prt 3):65-76
13. **Jana, C.K\***. and Das N (2014). Measurement of Humic Acids in Vermicomposted Organic Wastes by Microwave Assisted Fast Extraction from Vermicompost. *J. Institution of Chemists (India)*.**86**(Prt 2):43-63.
14. **Jana, C.K\***, Das, N and Sohal, R.S. (2002). Specificity of Age-Related Carbonylation of Plasma Proteins in the Mouse and Rat. *Arch. Biochem. Biophysics*, **397**:433-439.

15. Kwong, L K, Kamzalov, S., Rebrin, I., Bayne, A C, **Jana, C. K.**, Morris, P., Forster, M. J., and Sohal, R. S. (2002). Effects of Coenzyme Q<sub>10</sub> Administration on its Tissue Concentrations, Mitochondrial Oxidant Generation and Oxidative Stress in the Rat. *Free Radic Biol Med* , **33**: 627-38.
16. **Jana, C.K.** and Ali, E. (1999). High resolution Affinity Chromatography of an Anti-steroid Antiserum by Gradient Elution with Propionic Acid. *J. Immunol. Methods* (1999),**225**: 95-103.
17. **Jana, C.K.** and Ali, E. (1999). Antibody Binding Characteristics of Geometrical Isomers of Testosterone 3-(O-Carboxymethyl) oxime. *Steroids* (1999), **64**:220-232.

#### **B. Books published as sole author**

- i) Jana CK (2017). *An Introduction to Enzyme Linked Immunosorbent Assay and a Unique 'Bridge' Phenomena* Baiwala, Kolkata (ISBN 978-81-926703-9-3, Sept. 2017)
- ii) Jana CK (2016). *Heterogeneity in Testosterone Antibody Resolved by Affinity Chromatography*. Baiwala, Kolkata (ISBN 978-81-926703-5-5, July, 2016)
- iii) Jana CK (2016). *Production and Extraction of Humic Acids from Domestic and Agricultural Wastes through Vermicomposting* (ISBN 978-81-926703-8-6, January, 2016)

#### **C. Selected List of papers/posters presented in Seminar/Conferences with title, venue, date and organiser of the seminar/conference**

- i. **Jana CK (2019)** Eco-friendly Management of Household Organic and Agriculture Waste for Production of Vermicompost and Components that Have potential Application in Agriculture. In: 56<sup>th</sup> Annual Convention of Chemists and International Conference on Recent Trends in Chemical Sciences Nov.14-16, 2019 Pt. Ravishankar Shukla University, Raipur, India
- ii. Das C, Das N and Jana CK (2018). Semiquantative Screening of Antioxidants in medicinal plants of Bankura. 34<sup>th</sup> Regional Science and Technology Congress (Southern Region), 2018. Dec.18-19
- iii. Nandi A, Jana CK and Das N (2019) Assessment of catalase and SOD activity in *Sachharomyces cerevisiae* – 170 in corresponds to ageing and oxidative stress. In: Poster and Proceedings of Biodiversity, Biotechnology and Biometrics: Innovative and Emerging Trends (NCBBBIET-2019 at Odisha, India
- iv. Nandi A, Jana CK and Das N (2019) Effect of biosynthesized zinc oxide nanoparticle on antioxidant enzymes of *Saccharomyces cerevisiae* at mid-exponential phase. In: Poster and Proceedings of 106<sup>th</sup> Indian Science Congress (ISC-2018)
- v. Title: of the paper present, “Different Cross-reactivity of Anti-testosterone Antibodies with Geometrical Isomers of Testosterone 3-(O-carboxymethyl)oxime in Competitive Immunoassay Chemistry” in 7<sup>th</sup> National Science Conference of the World Science Congress (28.2-1.3.2015), Jadavpur University, Kolkata
- vi. Title of the paper presented, “Fast Extraction of Humic Acids from Vermicompost by Microwave-assisted Method” in 4<sup>th</sup> International Conference of World Science Congress (16-18, 12.2014). Jadavpur University, Kolkata
- vii. Title of the model incepted and supervised, “ Domestic Waste to Brown Gold” in Two-day State level Science Camp on “Learning by Doing: Science Mysteries Demystified” (8-9.1.2014). Ramananda College, Bishnupur

- viii. Title of the paper presented “Oxygen Acts as poison by generating Reactive Oxygen Species and Generating Protein Carbonyls” in National Seminar on “Recent Advances in Chemical Sciences” (15-17.3.2012), Department of Chemistry, The University of Burdwan

#### **10. ACADEMIC MEMBERSHIPS**

1. Life member of the Indian Chemical Society
2. Life member of The Society of Biological Chemists (India Chapter)
3. Life member of the Society for Free Radical Research – India.
4. The Indian Science Congress Association

11. **AWARD(S) RECEIVED:** CSIR-NET (1992), GATE (1992)

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