

BIODATA

1. **Full name:** Annalakshmi Chatterjee
2. **Designation:** Assistant Professor
3. **Specialization:** Biochemistry and Microbiology
4. **Contact information:** Laboratory of Food Chemistry and Microbiology, Food & Nutrition Division, Department of Home Science, University of Calcutta, 20 B, Judges Court Road, Alipore, Kolkata 27; annalakiicb@yahoo.co.in; 09830187601
5. **Academic Qualifications:**



| College/University from which the degree was obtained | Abbreviation of the degree |
|--|------------------------------------|
| JBAS Women's College, University of Madras, Chennai | B. Sc (Zoology with Biotechnology) |
| School of Life Sciences, Pondicherry University, Pondicherry | M. Sc (Life Sciences) |
| Indian Institute of Chemical Biology, Jadavpur University, Kolkata | Ph. D (Science) |

6. **Positions previously held:** Assistant Professor (full time) J. D. Birla Institute (affiliated to Jadavpur University), Kolkata (2nd July 2009 –30th September 2013)

7. **Research interests:**

- In Drug Discovery: Exploration and Exploitation of Indian biodiversity in search of anti peptic ulcer lead(s) in preclinical experimental models.
- In Gastric ulcer research: Ussing chamber model using frog gastric mucosa, *in vitro* culture and general microbiological work with *Helicobacter pylori*, *in vivo* *H. pylori* infection (SS1 strain) in C57BL/6J mice, isolation and activity evaluation with gastric H⁺, K⁺-ATPase from pig stomach, isolation of pure viable parietal cell from rabbit gastric mucosa, several *in vivo* gastric ulcer models in Sprague-dawley rats. Culturing different cancer cell lines *in vitro*
- Member of antipeptic ulcer research team in the CSIR-coordinated Network programme (COR-23) on 'Discovery, Development and Commercialization of Bioactive Molecules and Traditional Preparations' (Since 2003).
- Research related to Food biological chemistry and Quality analysis including anti-nutrients, Microbiology of Food

8. **Research guidance :**

Number of researchers awarded M.Phil./Ph.D. degrees : Nil

Number of researchers Pursuing M.Phil./Ph.D. : 4

9. **List of Publications:**

- a) **Journals:**

Hota Samiran, **Chatterjee Annalakshmi** (2019). Traditional and indigenous uses of plants for treatment of Urinary Disorders by the tribes in Jhargram district of West Bengal. *Education, Research and Analysis*. 6(1):26-32.

Jalan Megha, Nandi Soumya, **Chatterjee Annalakshmi** (2018). Development and Sensory Evaluation of Fermented Tea using Yeast and Sunlight as a source of Vitamin D. *Education, Research and Analysis*. 5(1.2):14-19.

Agrawal Pratyasha, **Chatterjee Annalakshmi** (2018). Edible Oil Consumption among Housewives in Kolkata. *Education, Research and Analysis*. 5(1.3):103-107.

Ray Sayani, **Chatterjee Annalakshmi** (2017). Nutritional and Biological Importance of the Weed *Echinochloa colona* : A Review. *International Journal of Food Science and Biotechnology*. 2(2): 31-37.

Hota Samiran, **Chatterjee Annalakshmi** (2016). Traditional Knowledge and Use of Medicinal Plants for Gastro-intestinal Disorders by Tribal People in Paschim Medinipur District of West Bengal. *International Journal of Pharma Sciences*. 6(3):1571-1576.

Nandi Soumya, **Chatterjee Annalakshmi** (2016). Extraction, partial purification and application of tannase from *Aspergillus niger* MTCC 2425. *International Journal of Food Science and Nutrition*. 1(3): 20-23.

Hota Samiran, **Chatterjee Annalakshmi** (2016). Traditional and indigenous uses of plants for treatment of skin diseases by the tribes in Paschim Medinipur district of West Bengal. *Journal of Medicinal Plants Studies*. 4(5): 175-180.

Suchandra Goswami, Rajendra S. Bhakuni, **Annalakshmi Chinniah**, Anirban Pal, Sudip K. Kar, and Pratap K. Das (2012). Anti *Helicobacter pylori* potential of artemisinin and its derivatives *Antimicrob. Agents Chemother.* 56:4594-4607. Print ISSN: 0066-4804; Online ISSN: 1098-6596

Annalakshmi C, Mohapatra S, Goswami S, Mahapatra A, Kar SK, Mallavadhani U and Das PK (2009). On the potential of *Tephrosia purpurea* as anti *Helicobacter pylori* agent. *J. Ethnopharmacol.* 124:642-5. ISSN: 0378-8741

Das PK, Goswami S, **Annalakshmi C**, Panda N, Banerjee S, Sahu NP and Achari B (2007). *Woodfordia fruticosa*: traditional uses and recent findings. *J. Ethnopharmacol.* 110:189-99.

b) *Conference/seminar volumes:*

- Samapika Barua, **Annalakshmi Chatterjee**, Anjali Dutta, Samiran Hota (2016). Comparative Study on the Changes in the Constituents and Related Functional Activities of Barley Grass Extract during Four Weeks of Growth and Maturation. International Conference on 'Microbiology, Agriculture & Environmental Sciences', at Hyderabad, organised by St. Pious X Degree & PG College for Women & International Multidisciplinary Research Foundation, India dated September 1st – 2nd, 2016.
- **Annalakshmi C**, Mohapatra S, Goswami S, Mahapatra A, Kar SK, Mallavadhani U and Das PK (2013). *Tephrosia Purpurea* – A Wasteland Weed with Potential Anti-*Helicobacter* Activity. International Conference on 'Environment and its Impact on Society' at Kolkata (India), Organized by J. D. Birla Institute, Category: FOOD & NUTRITION, Paper Code: (FN13). Pp. 77 – 82. ISBN:978-93-5126-892-S.
- **Annalakshmi Chatterjee** and Megha Jalan (2013). Development and Sensory Evaluation of Fermented tea using Yeast & Sunlight as a source of Vitamin D. International Conference on 'Environment and its Impact on Society' at Kolkata (India), Organized by J. D. Birla Institute, Category: FOOD & NUTRITION code: FN P5, pp 359, ISBN:978-93-5126-892-S.
- **Annalakshmi Chatterjee** and Soni Khandelwal. Effect of processing on Antioxidant, Antimicrobial and Antinutritional activities of polyphenols rich *Psidium guajava*. Oral presentation In UGC-sponsored National Seminar 'Recent Trends in Research of Nutrition Science', Barrackpore Rastraguru Surendranath College, Barrackpore, 22nd-23rd February, 2012, pg.9.
- **Annalakshmi Chatterjee** and Soni Khandelwal. Effects of processing on phenolic concentration, antinutritional and nutritional activities of guava and pineapple juices. Poster presentation In 43rd National Conference, 'Economic Transition in Nutrition – Life Style Diseases & Health and Nutrition Wellness', NIN, Hyderabad, 11-12th November, 2011, pg 126.
- **Annalakshmi Chatterjee** and Soni Khandelwal. Effects of processing on phenolic concentration, antinutritional and nutritional activities of guava and pineapple juices. Oral presentation In 29th Biennial National Conference on 'Innovative Horizons and Emerging Challenges for Home Scientist', Lucknow, November 4th-6th, 2011, pg 102.
- Goswami S, **Annalakshmi C**, Das PK and Doraiswamy M (2010). On the gastric anti-secretory and anti *H. pylori* activity of a herbo-mineral *Siddha* medicine. National seminar on interior of

molecules from *Ayurvedic* metal and mineral preparations. Central Council of Research in *Ayurveda* and *Siddha*. Pp. 100-112.

10. Patents :

- Das PK, Goswami S, **Chinniah A**, Rao JM and Katragadda SB. Flavanoid compounds and process for preparation thereof. [US 8,969,384 B2, March 3, 2015].
- Romesh Chandra Boruah, Moyurima Borthakur, Madan Gopal Barthakur, Paruchuri Gangadhar Rao, Sudip Kumar Kar, **Annalakshmi Chinniah**, Suchandra Goswami, Pratap Kumar Das. Simultaneous method for the preparation of a mixture of 3- acetoxy-17-acetamido-16-formyl-androst-5,17-diene and 3-acetoxy-2'-chloro-5- androsteno[17,16-b]pyridine. [United States Patent 8513226, August 20, 2013].
- Banerjee S, Das PK, Goswami S, **Annalakshmi C**, Panda N, Sahu NP and Achari B. A Pharmaceutical composition comprising oenothain C useful for the treatment of peptic ulcer diseases. [Japan Patent No. 5313693, July 12, 2013].
- Banerjee S, Das PK, Goswami S, **Annalakshmi C**, Panda N, Sahu NP and Achari B (2006). Pharmaceutical composition useful for the treatment of peptic ulcer diseases. [United States Patent 8,383,690, February 26, 2013].
- Romesh Chandra Boruah, Moyurima Borthakur, Madan Gopal Barthakur, Paruchuri Gangadhar Rao, Sudip Kumar Kar, **Annalakshmi Chinniah**, Suchandra Goswami, Pratap Kumar Das. Compounds as antiulcer agent. [Patent GB2488946, October 31, 2012].
- Romesh Chandra Boruah, Moyurima Borthakur, Madan Gopal Barthakur, Paruchuri Gangadhar Rao, Sudip Kumar Kar, **Annalakshmi Chinniah**, Suchandra Goswami, Pratap Kumar Das. Method for the simultaneous preparation of 17-acetamido-3-acetoxy-16-formyl-androst-5, 17-diene and 3-acetoxy-2'-chloro-5-androsteno[17,16-b]pyridine. [Patent GB2471619 (GB), October 31, 2012].
- Banerjee S, Das PK, Goswami S, **Annalakshmi C**, Panda N, Sahu NP and Achari B. A Pharmaceutical composition comprising oenothain C useful for the treatment of peptic ulcer diseases. [European patent EP1981510 (B1), April 4, 2011]

11. Awards :

- Received award for outstanding achievements in the field of education/publication of papers in reputed journals for the years 2010-2011 & 2011-2012, from Vidya Mandir Society.
- Best teacher award from Vidya Mandir Society for the year (2012-2013).

12. Membership of Learned Societies :

- Indian Science Congress Association
- Nutrition Society of India
- Home Science Association of India
- Indian Dietetic Association