

Johura Ansary

<https://www.researchgate.net/profile/Johura-Ansary>
<https://scholar.google.it/citations?user=7AcLDYEAAAAJ&hl=it>
<https://www.linkedin.com/in/johura-ansary-phd-6349873a/>

Email: nubansary@gmail.com
j.ansary@pm.univpm.it
Cell phone: +08801880626495

OBJECTIVE

Successfully 3 years track record as an Industrial pharmacist in the R&D department. My research approach has consistently centred on bioactive compounds from natural products and cancer prevention.

EDUCATION

Marche Polytechnic University

Ancona, Italy

PhD in Biomedical Science; result: Outstanding

November 2018 - January 2022

Supervisor: Professor Dr. Maurizio Battino

(Defended on 15th June 2022)

Dissertation: Evaluation of the anti-proliferative effect of phenolic compounds of garlic extract on human breast cancer cells through the modulation of different molecular mechanisms involved in their growth and proliferation.

University of Asia Pacific

Dhaka, Bangladesh

Master of Science in Pharmaceutical Science; CGPA: 3.68 out of 4.00

September 2012 – October 2013

Dissertation: In vitro and in vivo study of metformin HCL-loaded floating microspheres consisting of different polymers using the emulsion solvent evaporation technique.

The Northern University Bangladesh

Dhaka, Bangladesh

Bachelor of Pharmacy; CGPA: 3.93 out of 4.00

January 2007 – Jun 2011

Dissertation: Opioid agonist and antagonists and their abuse.

Certificate course

November 2021-December 2021

Monash University – School of Public Health and Preventive Medicine

Topic: CLINICAL TRIAL FUNDAMENTALS FOR PUBLIC HEALTH AND MEDICAL RESEARCH LEVEL 1

PROFESSIONAL EXPERIENCE

Remote Research Collaborator

April 2025- continue

Prof. Dr. Mohammad A Rahman Lab, Biochemistry and Molecular Biology at University of Arkansas for Medical Sciences (UAMS), USA.

- Contributing in project to identify aberrantly spliced gene targets from RNA-sequencing data analysis.

Visiting Researcher

January 2024 - January 2025

Prof. Dr. Alli Hossain's Lab, Department of Plant Pathology, Bangladesh Agricultural University

Name of Project: Elucidate the effect of plant growth-promoting rhizobacteria on drought responses of rice

- Assessed biochemical responses, including photosynthetic pigments, proline, MDA, total phenolics, and H₂O₂ content, in treated and untreated lentil plants subjected to drought stress. Contributed to data analysis

Employment Gap

California, USA

October 2022- February 2023

- Selected as a post-doctoral researcher at **THE LUNDQUIST INSTITUTE**, appointment could not proceed due to visa constraints.

Project Collaborator

Proof of Concept Program: "Strawberry for Healthier Women"

Ministry of Economic Development.

July 2020-June 2022

- Worked on developing a concentrated strawberry extract with high antioxidant capacity to treat uterine leiomyomas.
- Contributed to project design and data analysis of findings through scientific channels.

Executive

August 2015 – October 2023

ACME Laboratories LTD, Dharmi, Bangladesh

1. Conducted in-depth analysis and validation of pharmaceuticals, leading to the development of new assay methods and improved product quality.
2. Managed complex analytical tasks using UV Spectrophotometer, HPLC, IR, Potentiometer, and AAS, ensuring precision and reliability in drug analysis and development.

HONORS AND AWARDS

1. Awarded scholarship from the academic senate of the "PhD School in Medicine and Surgery 2018", Università Politecnica delle Marche, Italy. 2018-2022
2. Merit Scholarship, The Northern University Bangladesh (NUB), Bangladesh
Received a scholarship from NUB for meritorious position in each academic term 2007-2011

SKILLS SUMMARY

Cell biology: Human breast cancer, fibroblast cells, Colon cancer, ovarian cancer cell line culture, cell proliferation, cell viability assay, migration and invasion, colony formation assay.

Cell staining: Cell cycle, Apoptosis, Autophagy, and ROS.

- Analysis of biomarkers of oxidative stress and analysis of antioxidant enzyme activities.
- Analysis of cellular metabolism (mitochondrial function and glycolysis capacity) by XF24 extracellular flux analyser.

Molecular biology: Protein, RNA and DNA preparation, Western blotting, Microarray, Real-Time qRT-PCR, Flow cytometry sorting and analysis.

Microscopy: Light and fluorescence.

Spectrophotometric analysis: Drug identification and purity analysis, Antioxidant activity tests, Phytochemical analysis, assessment of different nutritional status, chemical compound analysis.

HPLC analysis: Identification and quantification of compounds.

IR Analysis: Identification and inspection Analysis

AAS Analysis: Heavy metal analysis

Advanced analytical skills: Data analysis using Graph Pad Prism, Minitab, and Image J

REVIEWER

Trends in food science and technology

Nutrients

Biomedicines

Molecules

Molecular Biology

International Journal of Molecular Science

Current Issues in Molecular Biology

Guest Editor & Reviewer broad member: Current Issues in Molecular Biology (CIMB).

ORGANIZATIONAL SKILLS

Assessment committees: Defence of the master's degree thesis.

Master's in applied nutrition and Dietetics, Ancona, Marche, Italy

PROFESSIONAL MEMBERSHIP

1. Member of Pharmacy Council of Bangladesh, Dhaka, Bangladesh
Professional category: Pharmacist
2. Member of 9th International Strawberry Symposium (ISS2021), Italy
Professional category: Scientist

TRAINING ATTENDED

- Completed a 15-day In-Plant Training on Operational and Technological Management of Production, Quality Assurance, Quality control and Warehouse and Engineering Department. (Date: March 28, 2011, to April 09, 2011; Location: Incepta Pharmaceuticals Ltd., Bangladesh)
- GMP training on good laboratory practice.
- Training on Calibration operation and cleaning procedure of High-Performance Liquid Chromatography (Shimadzu class VP).
- Training on the operation and cleaning procedure of AAS (AA-6800 series Shimadzu Corporation).

- Training on Operation and Cleaning procedure of High-Performance Liquid Chromatography (WATERS- MODEL 2489)
- Training in Calibration operation and cleaning procedure of UV-Visible spectrophotometer (Shimadzu-UV-1800)
- Training on Calibration operation and cleaning procedure of Fourier Transform Infrared Spectrophotometer (IR PRESTIGE-21)
- Training on Calibration operation and cleaning procedure of High-Performance Liquid Chromatography (SPD- 20A Shimadzu).
- Training on Calibration operation and cleaning procedure of High-Performance Liquid Chromatography with PDA detector (Dionex, UltiMate™ 3000)

[2-9 training locations: The ACME Laboratories Ltd; Dhamrai, Bangladesh]

ATTENDING CONFERENCE

1. 5th International Symposium on phytochemicals on medicine and food, August 25-30, 2021, Nanchang, China (online)
2. 2nd Food Chemistry Conference: Shaping the Future of Food Quality, Safety, Nutrition and Health, 5th-7th September 2019, Seville, Spain.

CONFERENCE ABSTRACTS PRESENTATION

1. ISHS - ISS2021; 9th international strawberry symposium, Antioxidant effects of strawberry extract on HepG2 stressed with an oxidant agent. Cianciosi D., **Ansary J.**, Giampieri F., Forbes-Hernández T.Y. VIRTUAL EDITION 1-5 MAY 2021.
2. ISHS - ISS2021; 9th international strawberry symposium, The anticancer activity of strawberry. **Ansary J.**, Giampieri F., Cianciosi D., Forbes-Hernández T.Y. VIRTUAL EDITION 1-5 MAY 2021.a
3. SHS - ISS2021; 9th international strawberry symposium, Characterization of the nutritional and phytochemical content of Romina strawberry cultivar (*Fragaria x Ananassa*) and evaluation of its cytotoxic effects on ovarian cancer cells. T.Y. Forbes-Hernandez,, **J. Ansary.**, L. Regolo., D. Cianciosi., M. Battino. VIRTUAL EDITION 1-5 MAY 2021.
4. International E-Conference on Antioxidants in Health and Disease, CAHD 2020, Evaluation of the phenolic profile, mineral, and fatty acid content and antioxidant activity of Black cumin before and after an in vitro simulated gastrointestinal digestion. **Ansary J.** 01-15 December 2020 (Online).
5. 8th Berry Health Benefits Symposium 2019, Strawberry enriched-diet counteracts oxidative stress and inflammation in rats stressed with lipopolysaccharide. Giampieri F., Forbes-Hernández T.Y., Cianciosi D., Zhang J., **Ansary J.**, Battino M. 7-9 May 2019, Portland and USA.
6. 8th Berry Health Benefits Symposium 2019, Strawberry methanolic extract inhibits adipogenesis in 3T3-L1 mouse embryo fibroblast cells. Forbes-Hernández T.Y., Giampieri F., Cianciosi D., Zhang J., **Ansary J.**, Battino M. 7-9 May 2019, Portland and USA.
7. American Association for Cancer Research Special Conference on Advances in Ovarian Cancer Research 2019, The chemopreventive effects of natural compounds in Romina strawberries in human ovarian cancer cells. Huq R. S., Forbes-Hernández T.Y., Cianciosi D., **Ansary J.**, Battino M., Giampieri F. September 13-16, 2019; Atlanta, Georgia.

JOURNAL PUBLICATIONS (884 CITATIONS, H-INDEX 11)

1. Navarro-Hortal, M. D., Romero-Marquez, J. M., **Ansary, J.**, Montalbán-Hernández, C., Varela-López, A., Giampieri, F., ... & Quiles, J. L. (2025). Effects of a Garlic Hydrophilic Extract Rich in Sulfur Compounds on Redox Biology and Alzheimer's Disease Markers in *Caenorhabditis Elegans*. *eFood*, 6(2). (IF: 5.7).
2. Navarro-Hortal, M. D., Romero-Márquez, J. M., **Ansary, J.**, Hinojosa-Nogueira, D., Montalbán-Hernández, C., Varela-López, A., & Quiles, J. L. (2025). Honey as a Neuroprotective Agent: Molecular Perspectives on Its Role in Alzheimer's Disease. *Nutrients*, 17(16), 2577. (IF: 5.0)
3. **Ansary, J.**, Regolo, L., Machì, M., Salinari, A., & Cianciosi, D. (2022). Evaluation of the in vitro bioaccessibility of phenolic compounds of black cumin (*BARI-1cumin*) methanolic extract. *eFood*, 3(3), e15. (IF: 5.7)
4. **Ansary, J.**, Giampieri, F., Forbes-Hernandez, T. Y., Regolo, L., Quinzi, D., Gracia Villar, S., ... & Cianciosi, D. (2021). Nutritional Value and Preventive Role of *Nigella sativa* L. and Its Main Component Thymoquinone in Cancer: An Evidenced-Based Review of Preclinical and Clinical Studies. *Molecules*, 26(8), 2108. (IF: 4.6)
5. **Ansary, J.**, Forbes-Hernandez, T. Y., Regolo, L., Cianciosi, D., & Giampieri, F. (2021). The anticancer activity of strawberry. In IX International Strawberry Symposium 1309 (pp. 925-932).
6. **Ansary, J.**, Forbes-Hernández, T. Y., Gil, E., Cianciosi, D., Zhang, J., Elexpuru-Zabaleta, M., ... & Battino, M. (2020). Potential Health Benefit of Garlic Based on Human Intervention Studies: A Brief Overview. *Antioxidants*, 9(7), 619. (IF: 6.6).
7. **Ansary, J.**, & Cianciosi, D. (2020). Natural antioxidants: Is the research going to the right direction?. *Mediterranean Journal of Nutrition and Metabolism*, 1-5.
8. **Ansary, J.**, Chaurasiya, A. K., & Huq, K. B. (2015). Formulation and evaluation of metformin HCl floating microspheres. *Asian Journal of Medical and Biological Research*, 1(3), 396-405.

9. Cianciosi, D., Forbes-Hernandez, T. Y., Alvarez-Suarez, J. M., **Ansary, J.**, Quinzi, D., Amici, A., ... & Giampieri, F. (2021). Anti-inflammatory activities of Italian Chestnut and Eucalyptus honeys on murine RAW 264.7 macrophages. *Journal of Functional Foods*, 87, 104752. (IF: 4.0)
10. Cianciosi, D., **Ansary, J.**, Forbes-Hernandez, T. Y., Regolo, L., Quinzi, D., Gracia Villar, S., ... & Giampieri, F. (2021). The Molecular Basis of Different Approaches for the Study of Cancer Stem Cells and the Advantages and Disadvantages of a Three-Dimensional Culture. *Molecules*, 26(9), 2615. (IF: 4.6)
11. Haq, R. S., Forbes-Hernandez, T. Y., **Ansary, J.**, Regolo, L., Cianciosi, D., & Battino, M. (2021, May). Characterization of the nutritional and phytochemical content of Romina's of Romina's strawberry (*Fragaria x ananassa*) and evaluation of its cytotoxic effects on ovarian cancer cells. In IX International Strawberry Symposium 1309 (pp. 911-916).
12. Giampieri, F., Cianciosi, D., **Ansary, J.**, Regolo, L., Forbes-Hernandez, T. Y., & Battino, M. (2021, May). Antioxidant effects of strawberry extract on HepG2 stressed with an oxidant agent. In IX International Strawberry Symposium 1309 (pp. 903-910).
13. Cianciosi, D., **Ansary, J.**, Regolo, L., Giampieri, F., & Forbes-Hernandez, T. Y. (2021, May). The preventive effect of strawberries against the onset of common human diseases induced by oxidative stress. In IX International Strawberry Symposium 1309 (pp. 917-924).
14. Cianciosi, D., Forbes-Hernández, T. Y., **Ansary, J.**, Gil, E., Amici, A., Bompadre, S., ... & Battino, M. (2020). Phenolic compounds from Mediterranean foods as nutraceutical tools for the prevention of cancer: The effect of honey polyphenols on colorectal cancer stem-like cells from spheroids. *Food Chemistry*, 126881. (IF: 9.8)
15. Forbes-Hernández, T. Y., Cianciosi, D., **Ansary, J.**, Mezzetti, B., Bompadre, S., Quiles, J. L., ... & Battino, M. (2020). Strawberry (*Fragaria x ananassa* cv. Romina) methanolic extract promotes browning in 3T3-L1 cells. *Food & Function*, 11(1), 297-304. (IF: 5.4)
16. Battino, M., Giampieri, F., Cianciosi, D., **Ansary, J.**, Chen, X., Zhang, D., ... & Forbes-Hernández, T. (2021). The roles of strawberry and honey phytochemicals on human health: A possible clue on the molecular mechanisms involved in the prevention of oxidative stress and inflammation. *Phytomedicine*, 86, 153170. (IF: 8.3)
17. Cianciosi, D., Forbes-Hernández, T. Y., Giampieri, F., Zhang, J., **Ansary, J.**, Pacetti, M., ... & Battino, M. (2020). Effect of in vitro gastrointestinal digestion on the bioaccessibility of phenolic compounds and antioxidant activity of manuka honey. *eFood*, 1(1), 85-93. (IF: 5.7).
18. Afrin, S., Giampieri, F., Cianciosi, D., Pistollato, F., **Ansary, J.**, Pacetti, M., ... & Forbes-Hernández, T. Y. (2019). Strawberry tree honey as a new potential functional food. Part 1: Strawberry tree honey reduces colon cancer cell proliferation and colony formation ability, inhibits cell cycle and promotes apoptosis by regulating EGFR and MAPKs signalling pathways. *Journal of Functional Foods*, 57, 439-452. (IF: 4.0)
19. Yang, H. Z., Zhang, J., Zeng, J., Liu, S., Zhou, F., Zhang, F., ... & Battino, M. (2020). Resveratrol inhibits the proliferation of melanoma cells by modulating cell cycle. *International journal of food sciences and nutrition*, 71(1), 84-93. (IF: 3.3).
20. Akter, F., Saha, M., **Ansary, J.**, Debnath, A., & Shams, T. (2015). Study of dissolution characteristics of ibuprofen by different polymers and solid dispersion techniques. *International Journal of Pharmaceutical Sciences and Research*, 6(4), 1528. DOI: 10.13040/IJPSR.0975-8232.6(4).1528-37
21. Chaurasiya, A. K., **Ansary, J.**, Rahaman, M. S., & Alam, M. E. (2015). Preparation and in-vitro evaluation of lamivudine matrix tablets for oral sustained release drug delivery system using Methocel K15M CR polymer. *International Journal of Pharmaceutical Sciences and Research*, 6(1), 164-171. (IF: 3.3).

REFERENCES

1. **Prof. Dr. Maurizio Battino**
Professor of Biochemistry
Department of Clinical Science, Faculty of Medicine,
Università Politecnica delle Marche
Marche Via Ranieri, 60100 Ancona, Italy
Phone: +39 3475176852
E-mail: m.a.battino@univpm.it
2. **Prof. Dr. Mohammad A Rahman**
Assistant Professor
Department of Biochemistry and Molecular Biology
University of Arkansas for Medical Sciences
Little Rock, USA
Contact No. (501)686-5755 (Office), (501)603-1386 (Lab)
Mail: MARahman@uams.edu
3. **Prof. Dr. Muhammed Ali Hossain, Ph.D.**
Department of Plant Pathology
Bangladesh Agricultural University
Mymensingh 2202, Bangladesh
Mobile: +880-1737412881
Mail: alihossain.bau@gmail.com