

Curriculum Vitae

Rezwana Ahmed



PERSONAL INFORMATION

Citizenship: Bangladeshi

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CURRENT POSITION

Assistant Professor, January 2020-present
Department of Pharmaceutical Sciences
North South University
Bashundhara, Dhaka-1229, Bangladesh

ACADEMIC JOURNEY

- **Ph.D. in Molecular Biology** (Circadian clock and aging, screening drugs to target aged cells), 2019
Laboratory of Gene Regulation Research
Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), **Japan**
Dissertation Title: Effect of cellular senescence on circadian clock properties in primary cultured human lung fibroblasts
Major contribution: Established the use of an *in vitro* model of aging for studying circadian clock changes in human primary lung fibroblasts, with drugs to target the senescent (aged) cells.
- **Masters in Biological Sciences**, 2015-2018
Laboratory of Gene Regulation Research,
Graduate School of Biological Sciences, Nara Institute of Science and Technology (NAIST), **Japan**
- **Bachelor of Pharmacy**, 2009-2013
Department of Pharmaceutical Sciences
North South University, Dhaka, **Bangladesh**
- **GCE A-levels**, 2009
Academia, Dhaka, **Bangladesh**
- **Cambridge O-levels**, 2007

PUBLICATIONS

- **Ahmed R**, Nakahata Y, Shinohara K and Bessho Y (2021) Cellular Senescence Triggers Altered Circadian Clocks With a Prolonged Period and Delayed Phases. *Front. Neurosci* (Impact Factor 3.707). 15:638122.
 - Nuriliani A, Nakahata Y, **Ahmed R**, Khaidizar FD, Matsui T, Bessho Y. Over-expression of Nicotinamide phosphoribosyltransferase in mouse cells confers protective effect against oxidative and ER stress-induced premature senescence. *Genes Cells* (Impact Factor 2.048). 2020;00:1–10.
 - **Rezwana Ahmed**, Atsushige Ashimori, Satoshi Iwamoto, Takaaki Matsui, Yasukazu Nakahata, Yasumasa Bessho. Replicative senescent human cells possess altered circadian clocks with a prolonged period and delayed peak-time. **Aging (Impact Factor 5.543)**. 2019 Feb 9;11(3):950-973.
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CONFERENCE PROCEEDINGS

1. **Rezwana Ahmed**, Atsushige Ashimori, Satoshi Iwamoto, Takaaki Matsui, Yasukazu Nakahata, Yasumasa Bessho. Replicative senescent human cells possess altered circadian clocks with a prolonged period and delayed peak-time. **EBRS Congress by the European Biological Rhythms Society. Lyon, France, 2019.**
2. A. Ashimori, **A. Rezwana**, Y. Nakahata, S. Iwamoto, T. Matsui, Y. Bessho. Decrease in NAD⁺ causes period extension of circadian clock with aging. **Cell Symposia: Aging and Metabolism 2018. Sitges, Spain, 2018.**
3. Nakahata Yasukazu, **Ahmed Rezwana**, Ashimori Atsushige, Shinohara Kazuyuki, Bessho Yasumasa. Replicative senescent human cells possess altered circadian clocks with a prolonged period and delayed peak-time. **The 97th Annual Meeting of the Physiological Society of Japan. Beppu, Japan, 2020.**
4. Nakahata Yasukazu, **Ahmed Rezwana**, Ashimori Atsushige, Bessho Yasumasa, Shinohara Kazuyuki. Effects of circadian clock properties on Aging-NAD⁺ pathway. **The 70th Annual Meeting of the Physiological Society of West Japan. Miyazaki, Japan, 2019.**
5. **Rezwana Ahmed**, Satoshi Iwamoto, Yasukazu Nakahata, Takaaki Matsui, Yasumasa Bessho. Changes in Circadian Clock Properties of Replicative Senescent TIG-3 cells. **International Symposium on Biological Rhythms. Nagasaki, Japan, 2018.**

6. **Rezwana Ahmed**, Satoshi Iwamoto, Yasukazu Nakahata, Takaaki Matsui and Yasumasa Bessho. Changes in Circadian Clock Properties of Replicative Senescent TIG-3 cells. **25th Annual Meeting of the Japanese Society for Chronobiology. Nagasaki, Japan, 2018**
7. **Rezwana Ahmed**, Satoshi Iwamoto, Yasukazu Nakahata, Takaaki Matsui and Yasumasa Bessho. Changes in Circadian Clock Properties of Replicative Senescent TIG-3 cells. **Japan Society for Bioscience, Biotechnology, and Agrochemistry (JSBBA) Kansai 5th Student Forum, Nara, Japan, 2018.**
8. **Rezwana Ahmed**, Satoshi Iwamoto, Yasukazu Nakahata, Takaaki Matsui and Yasumasa Bessho. The impact of cellular senescence on circadian clock. **Japan Society for Bioscience, Biotechnology, and Agrochemistry (JSBBA) Kansai 4th Student Forum, Kobe, Japan, 2017.**
9. **Rezwana Ahmed**, Satoshi Iwamoto, Yasukazu Nakahata, Takaaki Matsui, Yasumasa Bessho. The impact of cellular senescence on circadian clock. **International Conference on Genomics, Nanotech and Bioengineering.** Dhaka, Bangladesh, 2017

A W A R D S & H O N O U R S

1. Japanese Government Scholarship for Ph.D. at Nara Institute of Science and Technology, Japan. (**MONBUSHO**, 2018-2021)
 2. **Most Influential presentation**, JSBBA Kansai 4th Student Forum, Kobe, Japan. (2017)
 3. **Best Poster**, International Conference on Genomics, Nanotech and Bioengineering, North South University, Dhaka, Bangladesh. (2017)
 4. Japanese Government Scholarship for Masters at Nara Institute of Science and Technology, Japan. (**MONBUSHO**, 2015-2018)
 5. **Vice Chancellor's Gold Medal**, North South University, Dhaka, Bangladesh. (2015)
 6. **Merit-based 100% tuition waiver**, North South University, Dhaka, Bangladesh. (2009-2013)
 7. **Certificate of Excellence** for 3 A grades in GCE A-Level Examinations, Daily Star Awards, Dhaka, Bangladesh. (2009)
 8. **Scholarship for A-level study**, Academia, Dhaka, Bangladesh. (2008)
 9. **Cambridge Brilliance in Bangladesh Awards** for obtaining 7 A grades in Cambridge O-level examinations, by University of Cambridge International Examinations. (2007)
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OTHER RELEVANT EXPERIENCES

- **Researcher**, April 2019-December 2019
Physiology2 Lab
Department of Neurobiology and Behaviour, Graduate School of Biomedical Sciences,
Nagasaki University, Japan
 - **Research Student**, January 2019 - February 2019
Chiu Lab, Department of Entomology and Nematology
University of California, Davis, USA
 - **Manuscript editing of articles** (During PhD study)
Laboratory of Gene Regulation Research
Nara Institute of Science and Technology, Japan
 - **Product Executive**, May 2014 - January 2015
Marketing Department,
Eskayef (Former SK + F) Pharmaceuticals Limited, Dhaka, Bangladesh
 - **In-plant training**, August 2013 - September 2013
Square Pharmaceuticals, Gazipur, Bangladesh
 - **Teaching Assistant (TA)**, September 2012-December 2012
North South University,
Dhaka, Bangladesh
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PROFESSIONAL AFFILIATIONS

- European Biological Rhythms Society (EBRS)
 - Australasian Chronobiology Society (ACS)
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COMMUNITY SERVICES

- 2019 Global Skill Up Forum organized by Nanzan Junior and Senior High School for English communication with Japanese students
- 2018 Super Science Student Program-Training basic laboratory techniques to Japanese high school students at Nara Institute of Science and Technology
- 2016 Templish English learning program for Japanese elementary school children through Japanese cultural activities

REFERENCES

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Professor Yasumasa Bessho

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