**RESEARCH EXPERIENCE**

**2021 – present   Postdoctoral Research Fellow**PI: Dr. Anna Krichevsky

Brigham and Women’s Hospital, Harvard Medical School

Department of Neurology, Ann Romney Center for Neurologic Diseases

Current project

 **Discovery of small RNA species underlying tau aggregation and pathology**

**2017 – 2021        Ph.D. Student, The University of Tokyo**, JAPAN     Advisor: Dr. Satoshi Inoue

Systems Aging Science & Medicine, Tokyo Metropolitan Institute of Gerontology

Thesis: *In situ*visualization and quantification of mitochondrial respiratory chain supercomplex assembly using the fluorescence resonance energy transfer (FRET) technique in muscle cells

Publication: **Kobayashi A.,** Azuma K., Ikeda K., Kitami T., Inoue S., A FRET-based respirasome assembly screen identifies spleen tyrosine kinase as a target to improve muscle mitochondrial respiration and exercise performance in mice, ***Nature Communications* 14: 312 (2023)**

**2009 – 2012        M.D. Student, Jikei U. School of Medicine**, JAPAN    Advisor: Masataka Okabe

• Performed phylogenetic analysis of Hox gene cluster in Bichir, *Polypterus senegalus* using MEGA5, Seaview, and clustalW2

                               • Analyzed DNA structural variation (insertion, duplication, deletion) using DNA microarray data

**SCHOLARSHIPS & AWARDS**

**2022     Young Scientist Award,**The 41st Annual Meeting of the Japanese Society for Dementia Research,

Tokyo, JAPAN

**2021**      **Best Presentation Award and Young Scientist Award**,The 44th Annual Meeting of the Japanese

Society of Biomedical Gerontology, Nagoya, JAPAN