

Taehwan Yang

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Education

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| August 2014 – Present | Ph.D. in Biology
Georgia Institute of Technology (Georgia Tech)
Atlanta, GA, USA
<i>Advisor:</i> Prof. Francesca Storici |
| August 2012 – August 2014 | M.S. in Biology
Georgia Institute of Technology
Atlanta, GA, USA
<i>Advisor:</i> Prof. Francesca Storici |
| June 2010 – October 2011 | Upper Advanced Level in the Intensive English Program
Language Institute at Georgia Institute of Technology
Atlanta, GA, USA |
| March 2004 – February 2010 | B.S. in Molecular Biotechnology
Hankuk University of Foreign Studies (HUFS)
Seoul, Republic of Korea |

Research Experiences

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| August 2016 – Present | Graduate Research Assistant , Storici Lab, Georgia Tech <ul style="list-style-type: none"> ■ Looking for rNMPs embedded in genomic DNA to reveal unknown features and any hotspots of rNMPs by using ribose-seq |
| August 2014 – August 2016 | Graduate Student Researcher , Shin Lab, Georgia Tech <ul style="list-style-type: none"> ■ Investigation of protein-protein interactions using GST pull-down in zebrafish ■ Drug screening test in zebrafish embryos |
| August 2012 – August 2014 | Graduate Student Researcher , Storici Lab, Georgia Tech <ul style="list-style-type: none"> ■ Understanding the relation between RNase H and retro-transposition activity in the context of the Aicardi-Goutières syndrome in yeast |
| January 2012 – July 2012 | Volunteer , Molecular Biology Lab, HUFS <ul style="list-style-type: none"> ■ Various molecular biology experiments |
| March 2008 – December 2009 | Undergraduate Student Researcher , Molecular Biology Lab, HUFS <ul style="list-style-type: none"> ■ Developing a strain <i>Corynebacterium glutamicum</i> with high productivity of Alpha-Ketoglutarate |

Teaching Experiences

Spring 2019 & Spring 2021	Teaching Assistant , Georgia Tech BIOL-4590, Research Project Laboratory
Fall 2015 & Summer 2016	Teaching Assistant , Georgia Tech BIOL-1510, Biological Principles
Summer 2015	Teaching Assistant , Georgia Tech BIOL-2344, Genetics Lecture
Fall 2014, Spring 2015, & Spring 2016	Teaching Assistant , Georgia Tech BIOL-2345 Genetics Laboratory

Publications

1. Waleed M. M. El-Sayed, Alli L. Gombolay*, Penghao Xu*, **Taehwan Yang***, Youngkyu Jeon*, Sathya Balachander*, Gary Newnam, Sijia Tao, Nicole E. Bowen, Tomáš Brůna, Mark Borodovsky, Raymond F. Schinazi, Baek Kim, Yongsheng Chen & Francesca Storici. Disproportionate presence of adenosine in mitochondrial and chloroplast DNA of *Chlamydomonas reinhardtii*, *IScience*, 24(1):102005 (2021). *Equal contribution.
2. Chance Meers, Havva Keskin, Gabor Banyai, Olga Mazina, **Taehwan Yang**, Alli L. Gombolay, Kuntal Mukherjee, Efiyenia I. Kaparos, Gary Newnam, Alexander Mazin, and Francesca Storici. Genetic characterization of three distinct mechanisms supporting RNA-Driven DNA repair and modification reveals major role of DNA polymerase ζ , *Molecular Cell* 79:1037–1050 (2020).
3. Sathya Balachander*, Alli L. Gombolay*, **Taehwan Yang***, Penghao Xu*, Gary Newnam, Havva Keskin, Waleed M. M. El-Sayed, Anton V. Bryksin, Sijia Tao, Nicole E. Bowen, Raymond F. Schinazi, Baek Kim, Kyung Duk Koh, Fredrik O. Vannberg & Francesca Storici. Ribonucleotide incorporation in yeast genomic DNA shows preference for cytosine and guanosine preceded by deoxyadenosine. *Nature Communications* 11(1):2447 (2020). *Equal contribution.
4. Sathya Balachander* & **Taehwan Yang***, Gary Newnam, Waleed M. M. El-Sayed, Kyung Duk Koh, Francesca Storici. Capture of ribonucleotides in yeast genomic DNA using ribose-seq. *Methods in Molecular Biology* 2049:17-37 (2019). *Equal contribution.
5. Havva Keskin, Ying Shen, Fei Huang, Mikir Patel, **Taehwan Yang**, Katie Ashley, Alexander V. Mazin & Francesca Storici. Transcript-RNA-templated DNA recombination and repair. *Nature* 515 (7527):436-439 (2014).

Conference Presentations (Poster Presentations)

1. RNA2021 Online, the 26th Annual Meeting of RNA Society, 2021
2. RNA2020 Online, the 25th Annual Meeting of RNA Society, 2020
3. G-A RNA Salon, Emory University, Atlanta GA, 2020
4. The Genetic Recombination and Genome Rearrangements Conference Federation of American Societies for Experimental Biology (FASEB), Steamboat Springs, CO, 2019

5. South Eastern Regional Yeast Meeting (SERYM), Georgia Tech, Atlanta, GA, 2019
6. Georgia Tech's Career, Research, and Innovation Development Conference (CRIDC), Georgia Tech, Atlanta, GA, 2019
7. Southeast Center for Mathematics and Biology (SCMB), Georgia Tech, Atlanta, GA, 2019
8. South Eastern Regional Yeast Meeting (SERYM), Vanderbilt University, Nashville, Tennessee, TN, 2012

Honors and Awards

Fall 2009	Department Chief Scholarship, HUFS
Spring 2009	Department Chief Scholarship, HUFS
November 2008	3 rd place, Second Annual HUFS Science & Engineering Forum
Fall 2008	First Distinction Scholarship, HUFS