Kyungjae Myung Ph.D.

Education

1999	PhD, Molecular Biology, Cell Biology and Biochemistry: Brown University, Providence, RI USA Advisor: Prof. Eric Hendrickson
1993	Diplom (MSc), Molecular Biology: Seoul National University Advisor: Prof. Sang Dai Park

Postdoctoral Training

1999-2002	Ludwig Institute for Cancer Research, San Diego CA USA Advisors: Prof. Richard Kolodner

Positions and Employment

2014-	**Director**, Center for Genomic Integrity (CGI), Institute of Basic Sciences (IBS), Ulsan, Korea
2014-	**Distinguished Professor**, School of Life Sciences, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea
2011-2014	**Adjunct Professor** (voluntary), Division of Molecular and Life Science, POSTECH, Pohang, Korea
2011-	**Adjunct Professor** (voluntary), Department of Biological Sciences, KAIST, Daejeon, Korea
2009-2014	**Senior Investigator** (with tenure), National Human Genome Research Institute, NIH, Bethesda MD USA
2002-2009	**Investigator** (tenure track), National Human Genome Research Institute, NIH, Bethesda MD USA

Awards

1999	Barry Jay Rosen Memorial Award for a Ph.D. (Thesis of Exceptional Merit)
1999-2002	Research Fellowship from the Damon-Runyon-Winchell Cancer Research Foundation
2001	James Kerr Award for Research Excellence
2006	Society of Biomedical Research/Chong Keun Dang Award for achievements in biomedical research
2008	Bea Singer Young Investigator Award (GRC DNA damage, Mutagenesis and Cancer)
2012	Director of the year 2012 award from KSEA (Korean-American Scientists and Engineers Association)
2013	US Government Service Award (10 years), NHGRI, NIH
2013	Outstanding Service award from KSEA Washington Metro Chapter
2014	Scientist of the year Award from KSEA and KOFST (Korean Federation of Science and Technology Societies)
2017	Genetic Society of Korea Scholar of the Year 2017

Selected Publications *(Among over 80 publications)*

Kyungjae Myung, Abihijit Datta, Clark Chen, and Richard D. Kolodner. (2001) SGS1, the *Saccharomyces cerevisiae* homologue of BLM and WRN, functions in the suppression of genome instability and homeologous recombination. ***Nature Genetics*** 27:113-116. PMID: 11138010

Kyungjae Myung, Abihijit Datta, and Richard D. Kolodner. (2001) Suppression of spontaneous chromosomal rearrangements by the S-phase checkpoint in *Saccharomyces cerevisiae*. ***Cell*** 104:397-408. PMID: 11239397

Kyungjae Myung, Clark Chen, and Richard D. Kolodner. (2001) Multiple pathways cooperate in the suppression of genome instability in *Saccharomyces cerevisiae*. ***Nature*** 411:1073-1076. PMID: 11429610

Richard D. Kolodner, Christopher D. Putnam, and **Kyungjae Myung** (2002) Maintenance of genome stability in *Saccharomyces cerevisiae*. ***Science*** 297:552-557. PMID: 12142524

Stephanie Smith, Ji-Young Hwang, Soma Banerjee, Anju Majeed, Amitabha Gupta and **Kyungjae Myung**. (2004) Mutator genes for suppression of gross chromosomal rearrangements identified by a genome-wide screening in *Saccharomyces cerevisiae*. ***Proc. Natl. Acad. Sci. USA*** 101:9039-9044. PMID: 15184655 PMCID: PMC428469

Akira Motegi, Hung-Jiun Liaw, Kyoo-Young Lee, Henk Roest, Alex Maas, Helen Moinova, Sandy Markowitz, Hao Ding, Jan H. J. Hoeijmakers, and **Kyungjae Myung**. (2008) Polyubiquitination of proliferating cell nuclear antigen by HLTF and SHPRH prevents genomic instability from stalled replication forks. ***Proc. Natl. Acad. Sci. USA*** 105:12411-12416. PMID: 18719106 PMCID: PMC2518831

Jennifer, T. Fox, Srilantha Sakamuru, Ruili Huang, Nedelina Teneva, Steven O. Simmons, Menghang Xia, Raymond R. Tice, Christopher P. Austin, and **Kyungjae Myung**. (2012) High-throughput genotoxicity assay identifies antioxidants as inducers of DNA damage response and cell death. ***Proc. Natl. Acad. Sci. USA*** 109:5423-5428 PMID: 22431602 PMCID: PMC3169526

Kyoo-young Lee, Haiqing Fu, Mirit Aladjem, and **Kyungjae Myung**. (2013) Human ATAD5 regulates the lifespan of DNA replication factories. ***J. Cell Biol.*** 200:31-44 PMID: 23277426 PMCID: PMC3542800

Yongliang Zhang, Jennifer T. Fox, Young-Un Park, Gene Elliot, Ganesha Rai, Srilatha Sakamuru, Ruili Huang, Menghang Xia, Kyeryoung Lee, Min Ho Jeon, Bijoy Mathew, Hee Dong Park, Winfried Edelmann, Chan Young Park, Sung You Hong, David Maloney, and **Kyungjae Myung.** (2016) Identification of a novel chemotherapeutic agent for tumors with DNA mismatch repair deficiencies. ***Cancer Research*** 76:4183-4191 PMID: 27267172

Seung Hun Han, Soo-Hyun Kim, Hyoung-June Kim, Yoonsung Lee, Soo-Young Choi, Do-Hyun Kim, Aram Lee, Jongmin Kim, Je-Min Choi, Yonghwan Kim, **Kyungjae Myung#**, Hongtae Kim#, and Dong-Wook Kim#. (2017) Cobll1 is linked to drug resistance and blastic transformation in chronic myeloid leukemia. ***Leukemia*** 31:1532-1539. #; Co-corresponding PMID: 28397868

Deokjae Lee, Jungeun An, Young-Un Park, Hungjiun Liaw, Roger Woodgate, Jun Hong Park, and **Kyungjae Myung**. (2017) SHPRH regulates rRNA transcription by recognizing the histone code in an mTOR-dependent manner. ***Proc. Natl. Acad. Sci. USA*** 114:E3424-3433 PMID: 28400511

Dong Kim Joo Seok Han, Peter Ly, Qiaozhen Ye, Moira McMahon, **Kyungjae Myung**, Kevin Corbett, and Don Cleveland. TRIP13 and APC15 drive mitotic exit by turnover of interphase- and unattached kinetochore-produced MCC. ***Nature Communication*** In press

Eun Kyung Song, Jimin Jeon, Dong Gil Jang, Ha Eun Kim, Hyou Jung Sim, Sofia Medina-Ruiz, Hyun-Jun Jang, Jun Gi Rho, Hyun-Shik Lee, Seok Jung Kim, Chan Young Park, **Kyungjae Myung,** Wook Kim, Taejoon Kwon, Siyoung Yang, and Tae Joo Park. ITGBL1 is a secreted modulator of integrin-extracullular matrix interactions that promotes cartilage formation and protects against arthritis. ***Science Translational Medicine*** In press