

Je-Hyun Yoon, Ph.D.

Associate Professor

Department of Oncology Science

University of Oklahoma

941 Stanton L Young Blvd, BSEB 302C, Oklahoma City, OK 73104

Phone: 405-271-8001 x32905 (Office, 302C) / x32906 (Lab, 310)

je Hyun-yoon@ouhsc.edu

Yoonje Hyun@gmail.com

POSITION AND EDUCATION

April 2023 – Present, Associate Professor

University of Oklahoma

Department of Oncology Science (Primary)

Department of Pathology (Secondary)

Research Topic: “Study of regulatory RNAs in Aging and Cancer”

I have a broad background in biochemistry as well as molecular and cellular biology, with specific expertise in post-transcriptional gene regulation on cellular senescence, aging and cancer. Furthermore, as PI, Co-Investigator, or collaborator on several federal and non-federal grants, I have established a competitive research program in RNA biology. My current research is focused on elucidating mechanisms of gene expression regulation mediated by RNA-binding proteins, microRNAs (miRNAs), double-stranded RNAs (dsRNAs) and long noncoding RNAs (lncRNAs). I have studied the cellular role of RNA-binding proteins and noncoding RNAs in multiple biological contexts and have made significant contributions to field of RNA biology

July 2021 – March 2023, Associate Professor

December 2015 – June 2021, Assistant Professor

Medical University of South Carolina

Department of Biochemistry and Molecular Biology

June 2011 – November 2015, Intramural Visiting Fellow

National Institutes of Health

June 2007 - May 2011, Ph.D. Student

University of Arizona / Howard Hughes Medical Institute

March 2004 - February 2006, M.S. Student

Korea University, Seoul, Korea

March 1998 - February 2004, B.S. Student

Korea University, Seoul, Korea

HONORS AND AWARDS

The RNA Society/Scaringe Young Scientist Award, 2013 in Davos, Switzerland

Research Excellence Award, 2022 in College of Medicine, Medical University of South Carolina.

Je-Hyun Yoon, Ph.D.

ACADEMIC MEMBERSHIPS, REVIEW PANELS AND CONFERENCE CHAIR

2010 - present	Member, The RNA Society
2011 - present	Member, Korean Society for Biochemistry and Molecular Biology
2015	Ad Hoc Review Panel, Wellcome trust/DBT India Alliance Fellowship
2016	Ad Hoc Review Panel, Wellcome trust Career Re-Entry Fellowship
2016 - 2023	Associate Member of Graduate Faculty, MUSC
2016 - 2023	Associate Research Member of the Hollings Cancer Center, MUSC
2017	Ad Hoc Review Panel, UKRI Future Leaders Fellowships
2018 - 2023	Review Committee, the Hollings Cancer Center Postdoc and Graduate Fellowship
2019 - present	Member, Research Society on Alcoholism
2019 - present	Member, American Association for Cancer Research
2019	Ad Hoc Review Panel, Faculty Early Career Development Program, NSF 17-537
2019	Ad Hoc Review Panel, R21 in NIAID/NIH, RFA-AI-18-025
2021	Ad Hoc Review Panel, R01 in NIDDK/NIH, ZRG1 DKUS-A 04
2021	Review Committee, Pew Scholar/Searle Scholar, MUSC Internal Evaluation
2021 - 2023	Review Committee, American Cancer Society Institutional Research Grants
2022	Ad Hoc Review Panel, Wellcome trust/DBT India Alliance Fellowship
2022	Ad Hoc Review Panel, Dutch Research Council Review, Netherland
2022	Ad Hoc Review Panel, Academia Sinica Investigator Award, Taiwan
2022	Ad Hoc Review Panel, SCTR Discovery Pilot Project Grants RFA, SC
2022	Ad Hoc Review Panel, IDEA Therapeutics Grant, SC
2023 - present	Full Member, Stephenson Cancer Center, Cancer Biology research program
2023	Co-Chair, END2CANCER, University of Oklahoma, OK
2023	Judge, RNA Society Meeting 2023
2024	Judge, Annual Cancer Research Symposium 2024, OUHSC
2024 - present	Full Member, the Graduate Faculty in Pathology, U of Oklahoma
2024 - present	Associate member, Center for Geroscience and Healthy Brain Aging
2024 - present	Committee member of Diversity, Equity, & Inclusion (DEI), RNA Society
2024 - present	Ad Hoc Review Panel, UDT and NCRS Awards, Research Society on Alcohol
2024	Ad Hoc Review Panel, Worldwide Cancer Research Grant, UK
2024	Ad Hoc Review Panel, NSF 24-556, Global Centers (GC)
2024	Ad Hoc Review Panel, NSF Graduate Research Fellowship Program
2024 - 2025	Academic Misconduct Board, OUHSC
2024 - present	Biospecimen Use (or Access) Committee, SCC Biospecimen core
2025	Review Committee, ACS DiCR Undergraduate Summer Research Program
2025	Chair, Cell and Experimental Biology, Houston, TX

PUBLICATIONS

As a Principal Investigator

Corresponding author

Mun H, Choi KM, Fei Q, Giraldo AEL, Lee JW, Kim K, Min KW, Shi L, Bedford MT, Kim DC, Chun YL, Ryu S, Kim D, Chang JH, Kang SU, Lee W, **Yoon JH**
SARS-CoV-2 RNA-binding protein suppresses extracellular miRNA release
RNA Biol. 2025 (in revision)

Yeom E, Mun H, Lim J, Chun YL, Min KW, Lambert J, Cowart LA, Pierce JS, Ogretmen B, Cho JH, Chang JH, Buchan JR, Pitt J, Kaeberlein M, Kang SU, Kwon ES, Ko S, Choi KM, Lee YS, Ha YS, Kim SJ, Lee KP, Kim HS, Yang SY, Shin CH, **Yoon JH***, Lee KS*
[Phosphorylation of an RNA-Binding Protein Rck/Me31b by Hippo Is Essential for Adipose Tissue Aging.](#)
Aging Cell 2025 Mar 11:e70022. (co-corresponding authors)
PMID: 40070010

Choi KM, Beard BA, **Yoon JH***, Kim D*.
Uridine as a hub in cancer metabolism and RNA biology
Experimental & Molecular Medicine 2025 (*co-corresponding authors)

Shin CH, Kim KM, Ho CW, Lee JW, Jo MJ, Min KW*, **Yoon JH***.
Long Noncoding RNAs Regulating Enzymatic Reactions in Cancer
Experimental & Molecular Medicine 2025 (*co-corresponding authors)

Gupta H, Lee JR, Hoffman KB, Min KW, **Yoon JH**.
[RNA Decay Assay: 5-Ethynyl-Uridine Labeling and Chasing.](#)
Methods Mol Biol. 2025;2863:139-149. doi: 10.1007/978-1-0716-4176-7_10. PMID: 39535709
PMID: 39535709

Chung HJ, Nguyen TNC, Lee JW, Huh Y, Ko S, Lim H, Seo H, Ha YG, Chang JH, Woo JS, Song JJ, Kim SW, Lee JS, Mo JS, Park B, Min KW, **Yoon JH***, Kim MS*, Jung J*, Jeong NY*.
[Targeting the Hippo pathway in Schwann cells ameliorates peripheral nerve degeneration via a polypharmacological mechanism.](#)
Neurotherapeutics. 2024 Oct;21(6):e00458. doi: 10.1016/j.neurot.2024.e00458. (*co-corresponding authors)
PMID: 39384453 PMCID: PMC11585884

Min KW, Choi KM, Mun H, Ko S, Lee JW, Sagum CA, Bedford MT, Kim YK, Delaney JR, Cho JH, Dawson TM, Dawson VL, Twal W, Kim DC, Panganiban CH, Lang H, Zhou X, Shin S, Hu J, Heise T, Kwon SH, Kim D, Kim YH, Kang SU, Kim K, Lewis S, Eroglu A, Ryu S, Kim D, Chang JH, Jung J, **Yoon JH**.
[Mature microRNA-binding protein QKI suppresses extracellular microRNA let-7b release.](#)
Journal of Cell Science 2024 Nov 1;137(21):jcs261575 (*co-corresponding authors)
PMID: 39308343 PMCID: PMC11574364

Mun H, Lee S, Choi S, Jeong JH, Ko S, Chun YL, Deaton B, Yeager CT, Boyette A, Palmera J, Newman L, Zhou P, Shin S, Kim DC, Sagum CA, Bedford MT, Kim YK, Jung J, Chang JH, **Yoon JH**.
[Targeting of CYP2E1 by miRNAs in alcohol-induced intestine injury.](#)

Mol Cells 2024 Jul;47(7):100074. doi: 10.1016/j.mocell.2024.100074
PMID: 38901530 PMCID: PMC11267015

Min KW, Jo MH, Song M, Lee JW, Shim MJ, Kim K, Park HB, Ha S, Mun H, Polash A, Hafner M, Cho JH, Kim D, Jeong JH, Ko S, Hohng S, Kang SU, **Yoon JH**.

[Mature microRNA-binding protein QKI promotes microRNA-mediated gene silencing.](#)

RNA Biol. 2024 Jan;21(1):1-15. doi: 10.1080/15476286.2024.2314846.

PMID: 38372062 PMCID: PMC10878027

Lee TA, Han H, Polash A, Cho SK, Lee JW, Ra EA, Lee E, Park A, Kang S, Choi JL, Kim JH, Lee JE, Min KW, Yang SW, Hafner M, Lee I, **Yoon JH***, Lee S*, Park B*.

[The nucleolus is the site for inflammatory RNA decay during infection.](#)

Nat Commun. 2022 Sep 3;13(1):5203. doi: 10.1038/s41467-022-32856-2.

(*Co-corresponding authors)

PMID: 36057640; PubMed Central PMCID: PMC9440930

Park MK, Zhang L, Min KW, Cho JH, Yeh CC, Moon H, Hormaechea-Agulla D, Mun H, Ko S, Lee JW, Jathar S, Smith AS, Yao Y, Giang NT, Vu HH, Yan VC, Bridges MC, Kourtidis A, Muller F, Chang JH, Song SJ, Nakagawa S, Hirose T, **Yoon JH***, Song MS*.

[NEAT1 is essential for metabolic changes that promote breast cancer growth and metastasis.](#)

Cell Metab. 2021 Dec 7;33(12):2380-2397.e9. doi: 10.1016/j.cmet.2021.11.011.

(*Co-corresponding authors)

PMID: 34879239; PubMed Central PMCID: PMC8813003

Ko S, Yeom E, Chun YL, Mun H, Howard-McGuire M, Millison NT, Jung J, Lee KP, Lee C, Lee KS, Delaney JR, **Yoon JH**.

[Profiling of RNA-binding Proteins Interacting With Glucagon and Adipokinetic Hormone mRNAs.](#)

J Lipid Atheroscler. 2022 Jan;11(1):55-72.

PMID: 35118022 PMCID: PMC8792818

Min KW, Evans JG, Won EC, **Yoon JH**.

[Detection of MicroRNAs Released from Argonautes.](#)

Methods Mol Biol. 2020;2106:151-159. doi: 10.1007/978-1-0716-0231-7_9.

PubMed PMID: 31889256.

Sun Q, Tripathi V, **Yoon JH**, Singh DK, Hao Q, Min KW, Davila S, Zealy RW, Li XL, Polycarpou-Schwarz M, Lehrmann E, Zhang Y, Becker KG, Freier SM, Zhu Y, Diederichs S, Prasanth SG, Lal A, Gorospe M, Prasanth KV.

[MIR100 host gene-encoded lncRNAs regulate cell cycle by modulating the interaction between HuR and its target mRNAs.](#)

Nucleic Acids Res. 2018 Nov 2;46(19):10405-10416. doi: 10.1093/nar/gky696.

PubMed PMID: 30102375; PubMed Central PMCID: PMC6212728.

Min KW, Zealy RW, Davila S, Fomin M, Cummings JC, Makowsky D, McDowell CH, Thigpen H, Hafner M, Kwon SH, Georgescu C, Wren JD, **Yoon JH**.

[Profiling of m6A RNA modifications identified an age-associated regulation of AGO2 mRNA stability.](#)

Aging Cell. 2018 Jun;17(3):e12753. doi: 10.1111/accel.12753.

PubMed PMID: 29573145; PubMed Central PMCID: PMC5946072.

Zealy RW, Fomin M, Davila S, Makowsky D, Thigpen H, McDowell CH, Cummings JC, Lee ES, Kwon SH, Min KW, **Yoon JH**.

[Long noncoding RNA complementarity and target transcripts abundance.](#)

Biochim Biophys Acta Gene Regul Mech. 2018 Mar;1861(3):224-234. doi: 10.1016/j.bbagr.2018.02.001.

PubMed PMID: 29421307; PubMed Central PMCID: PMC5924675.

Zealy RW, Wrenn SP, Davila S, Min KW, **Yoon JH**.

[microRNA-binding proteins: specificity and function.](#)

Wiley Interdiscip Rev RNA. 2017 Sep;8(5). doi: 10.1002/wrna.1414.

PubMed PMID: 28130820.

Min KW, Davila S, Zealy RW, Lloyd LT, Lee IY, Lee R, Roh KH, Jung A, Jemielity J, Choi EJ, Chang JH, **Yoon JH**.

[eIF4E phosphorylation by MST1 reduces translation of a subset of mRNAs, but increases lncRNA translation.](#)

Biochim Biophys Acta Gene Regul Mech. 2017 Jul;1860(7):761-772. doi: 10.1016/j.bbagr.2017.05.002.

PubMed PMID: 28487214.

Min KW, Jo MH, Shin S, Davila S, Zealy RW, Kang SI, Lloyd LT, Hohng S, **Yoon JH**.

[AUF1 facilitates microRNA-mediated gene silencing.](#)

Nucleic Acids Res. 2017 Jun 2;45(10):6064-6073. doi: 10.1093/nar/gkx149.

PubMed PMID: 28334781; PubMed Central PMCID: PMC5449627.

Choi YJ, **Yoon JH**, Chang JH.

[Crystal Structure of the N-Terminal RNA Recognition Motif of mRNA Decay Regulator AUF1.](#)

Biomed Res Int. 2016;2016:3286191. doi: 10.1155/2016/3286191.

PubMed PMID: 27437398; PubMed Central PMCID: PMC4942602.

Co-author

Roychaudhury A, Lee YR, Choi TI, Thomas MG, Khan TN, Yousaf H, Skinner C, Maconachie G, Crosier M, Horak H, Constantinescu CS, Kim TY, Lee KH, Kyung JJ, Wang T, Ku B, Chodirker BN, Hammer MF, Gottlob I, Norton WHJ, Gerlai R, Kim HG, Graziano C, Pippucci T, Iovino E, Montanari F, Severi G, Toro C, Boerkoel CF, Cha HS, Choi CY, Kim S, **Yoon JH**, Gilmore K, Vora NL, Davis EE, Chudley AE, Schwartz CE, Kim CH.

[SRPK3 Is Essential for Cognitive and Ocular Development in Humans and Zebrafish, Explaining X-Linked Intellectual Disability.](#)

Ann Neurol. 2024 Jul 29. doi: 10.1002/ana.27037.

PMID: 39073169 PMCID: PMC11496011

Lee JW, Mun H., Kim JH, Ko S, Kim YK, Shim MJ, Kim K, Ho CW, Park HB, Kim M, Lee C, Choi SH, Kim JW, Jeong JH, **Yoon JH**, Min KW, Son TG.

[Low-Dose Ionizing Radiation-Crosslinking Immunoprecipitation \(LDIR-CLIP\) Identified Irradiation-Sensitive RNAs for RNA-Binding Protein HuR-Mediated Decay.](#)

Biology (Basel). 2023 Dec 15;12(12):1533. doi: 10.3390/biology12121533.

PMID: 38132359

Rahimi M, Chiu A, Estefania Lopez Giraldo A, **Yoon JH**, Lee W.

[REDEN: Interactive multi-fitting decomposition-based NMR peak picking assistant.](#)

Magn Reson. 2023 Nov 25;358:107600. doi: 10.1016/j.jmr.2023.107600. Online ahead of print.
PMID: 38039655

Gulati R, Johnston M, Rivas M, Cast A, Kumbaji M, Hanlon MA, Lee S, Zhou P, Lake C, Schepers E, Min KW, **Yoon JH**, Karns R, Reid LM, Lopez-Terrada D, Timchenko L, Parameswaran S, Weirauch MT, Ranganathan S, Bondoc A, Geller J, Tiao G, Shin S, Timchenko N.

[β-catenin cancer-enhancing genomic regions axis is involved in the development of fibrolamellar hepatocellular carcinoma.](#)

Hepatol Commun. 2022 Aug 24. doi: 10.1002/hep4.2055. Online ahead of print.
PMID: 36000549

Whyte SS, Karns R, Min KW, Cho JH, Lee S, Lake C, Bondoc A, **Yoon JH**, Shin S.

[Integrated analysis using ToppMiR uncovers altered miRNA-mRNA regulatory networks in pediatric hepatocellular carcinoma-A pilot study.](#)

Cancer Rep (Hoboken). 2022 Jul 20:e1685. doi: 10.1002/cnr2.1685. Online ahead of print.
PMID: 35859536

Cho JH, Lee JW, **Yoon JH**, Min KW.

[Crosslinking Immunoprecipitation and qPCR \(CLIP-qPCR\) Analysis to Map Interactions of Long Noncoding RNAs with Canonical and Non-canonical RNA-Binding Proteins.](#)

Methods Mol Biol. 2021;2372:11-18. doi: 10.1007/978-1-0716-1697-0_2.
PMID: 34417738

Mohanty BK, Karam JA, Howley BV, Dalton AC, Grelet S, Dincman T, Streitfeld WS, **Yoon JH**, Balakrishnan L, Chazin WJ, Long DT, Howe PH.

Life Sci Alliance. 2021 Jul 16;4(9):e202000995. doi: 10.26508/lsa.202000995. Print 2021 Sep.

[Heterogeneous nuclear ribonucleoprotein E1 binds polycytosine DNA and monitors genome integrity.](#)

PubMed PMID: 34272328; PubMed Central PMCID: PMC8321654

Lee JW, Chun YL, Kim AY, Lloyd LT, Ko S, **Yoon JH**, Min KW.

[Accumulation of Mitochondrial RPPH1 RNA Is Associated with Cellular Senescence.](#)

Int J Mol Sci. 2021 Jan 14;22(2):782. doi: 10.3390/ijms22020782.

PubMed Central PMID: 33466722; PubMed Central PMCID: PMC7828772

Roh KH, Lee Y, **Yoon JH**, Lee D, Kim E, Park E, Lee IY, Kim TS, Song HK, Shin J, Lim DS, Choi EJ.

[TRAF6-mediated ubiquitination of MST1/STK4 attenuates the TLR4-NF-κB signaling pathway in macrophages.](#)

Cell Mol Life Sci. 2021 Mar;78(5):2315-2328. doi: 10.1007/s00018-020-03650-4.

PubMed PMID: 32975614

Sun Q, Hao Q, Lin YC, Song YJ, Bangru S, Arif W, Tripathi V, Zhang Y, Cho JH, Freier SM, Jenkins LM, Ma J, **Yoon JH**, Kalsotra A, Lal A, Prasanth SG, Prasanth KV.

[Antagonism between splicing and microprocessor complex dictates the serum-induced processing of lnc-MIRHG for efficient cell cycle reentry.](#)

RNA. 2020 Nov;26(11):1603-1620. doi: 10.1261/rna.075309.120.

PubMed PMID: 3267511; PubMed Central PMCID: PMC7566567

Shin YJ, Kwon ES, Lee SM, Kim SK, Min KW, Lim JY, Lee B, Kang JS, Kwak JY, Son YH, Choi JY, Yang YR, Kim S, Kim YS, Jang HC, Suh Y, **Yoon JH**, Lee KP, Kwon KS.

[A subset of microRNAs in the Dlk1-Dio3 cluster regulates age-associated muscle atrophy by targeting Atrogin-1.](#)

J Cachexia Sarcopenia Muscle. 2020 Oct;11(5):1336-1350. doi: 10.1002/jcsm.12578.

PubMed PMID: 32495509; PubMed Central PMCID: PMC7567143

Lee JH, Shim YR, Seo W, Kim MH, Choi WM, Kim HH, Kim YE, Yang K, Ryu T, Jeong JM, Choi HG, Eun HS, Kim SH, Mun H, **Yoon JH**, Jeong WI.

[Mitochondrial double-stranded RNA in exosome promotes interleukin-17 production through toll-like receptor 3 in alcoholic liver injury.](#)

Hepatology. Aug;72(2):609-625. doi: 10.1002/hep.31041.

PubMed PMID: 31849082; PubMed Central PMCID: PMC7297661.

Lee IY, Lim JM, Cho H, Kim E, Kim Y, Oh HK, Yang WS, Roh KH, Park HW, Mo JS, **Yoon JH**, Song HK, Choi EJ.

[MST1 Negatively Regulates TNF \$\alpha\$ -Induced NF- \$\kappa\$ B Signaling through Modulating LUBAC Activity.](#)

Mol Cell. 2019 Mar 21;73(6):1138-1149.e6. doi: 10.1016/j.molcel.2019.01.022.

PubMed PMID: 30901564.

Sonoda H, Lee BR, Park KH, Nihalani D, **Yoon JH**, Ikeda M, Kwon SH.

[miRNA profiling of urinary exosomes to assess the progression of acute kidney injury.](#)

Sci Rep. 2019 Mar 18;9(1):4692. doi: 10.1038/s41598-019-40747-8.

PubMed PMID: 30886169; PubMed Central PMCID: PMC6423131.

Yun JS, **Yoon JH**, Choi YJ, Son YJ, Kim S, Tong L, Chang JH.

[Molecular mechanism for the inhibition of DXO by adenosine 3',5'-bisphosphate.](#)

Biochem Biophys Res Commun. 2018 Sep 26;504(1):89-95. doi: 10.1016/j.bbrc.2018.08.135.

PubMed PMID: 30180947; PubMed Central PMCID: PMC6145842.

Anantharaman A, Gholamalamdari O, Khan A, **Yoon JH**, Jantsch MF, Hartner JC, Gorospe M, Prasanth SG, Prasanth KV.

[RNA-editing enzymes ADAR1 and ADAR2 coordinately regulate the editing and expression of Ctn RNA.](#)

FEBS Lett. 2017 Sep;591(18):2890-2904. doi: 10.1002/1873-3468.12795.

PubMed PMID: 28833069; PubMed Central PMCID: PMC5612911.

Anantharaman A, Tripathi V, Khan A, **Yoon JH**, Singh DK, Gholamalamdari O, Guang S, Ohlson J, Wahlstedt H, Öhman M, Jantsch MF, Conrad NK, Ma J, Gorospe M, Prasanth SG, Prasanth KV.

[ADAR2 regulates RNA stability by modifying access of decay-promoting RNA-binding proteins.](#)

Nucleic Acids Res. 2017 Apr 20;45(7):4189-4201. doi: 10.1093/nar/gkw1304.

PubMed PMID: 28053121; PubMed Central PMCID: PMC5397167.

Lee ES, Won YJ, Kim BC, Park D, Bae JH, Park SJ, Noh SJ, Kang YR, Choi SH, **Yoon JH**, Heo K, Yang K, Son TG.

[Low-dose irradiation promotes Rad51 expression by down-regulating miR-193b-3p in hepatocytes.](#)

Sci Rep. 2016 May 26;6:25723. doi: 10.1038/srep25723.

PubMed PMID: 27225532; PubMed Central PMCID: PMC4880923.

During postdoctoral training

Noh JH, Kim KM, Abdelmohsen K, **Yoon JH**, Panda AC, Munk R, Kim J, Curtis J, Moad CA, Wohler CM, Indig FE, de Paula W, Dudekula DB, De S, Piao Y, Yang X, Martindale JL, de Cabo R, Gorospe M.

[HuR and GRSF1 modulate the nuclear export and mitochondrial localization of the lncRNA RMRP.](#)

Genes Dev. 2016 May 15;30(10):1224-39. doi: 10.1101/gad.276022.115. Epub 2016 May 19.

PubMed PMID: 27198227; PubMed Central PMCID: PMC4888842.

Kim J, Kim KM, Noh JH, **Yoon JH**, Abdelmohsen K, Gorospe M.

[Long noncoding RNAs in diseases of aging.](#)

Biochim Biophys Acta. 2016 Jan;1859(1):209-21. doi: 10.1016/j.bbagr.2015.06.013. Epub 2015 Jul 2. Review.

PubMed PMID: 26141605; PubMed Central PMCID: PMC4698248.

Yoon JH, Gorospe M.

[Cross-Linking Immunoprecipitation and qPCR \(CLIP-qPCR\) Analysis to Map Interactions Between Long Noncoding RNAs and RNA-Binding Proteins.](#)

Methods Mol Biol. 2016;1402:11-17. doi: 10.1007/978-1-4939-3378-5_2.

PubMed PMID: 26721479; PubMed Central PMCID: PMC5140280.

Zhang P, Abdelmohsen K, Liu Y, Tominaga-Yamanaka K, **Yoon JH**, Ioannis G, Martindale JL, Zhang Y, Becker KG, Yang IH, Gorospe M, Mattson MP.

[Novel RNA- and FMRP-binding protein TRF2-S regulates axonal mRNA transport and presynaptic plasticity.](#)

Nat Commun. 2015 Nov 20;6:8888. doi: 10.1038/ncomms9888.

PubMed PMID: 26586091; PubMed Central PMCID: PMC4673492.

Yoon JH, Kim J, Gorospe M.

[Long noncoding RNA turnover.](#)

Biochimie. 2015 Oct;117:15-21. doi: 10.1016/j.biochi.2015.03.001. Epub 2015 Mar 10. Review.

PubMed PMID: 25769416; PubMed Central PMCID: PMC4565787.

DeMicco A, Naradikian MS, Sindhava VJ, **Yoon JH**, Gorospe M, Wertheim GB, Cancro MP, Bassing CH.

[B Cell-Intrinsic Expression of the HuR RNA-Binding Protein Is Required for the T Cell-Dependent Immune Response In Vivo.](#)

J Immunol. 2015 Oct 1;195(7):3449-62. doi: 10.4049/jimmunol.1500512. Epub 2015 Aug 28.

PubMed PMID: 26320247; PubMed Central PMCID: PMC4575876.

Yoon JH, Jo MH, White EJ, De S, Hafner M, Zucconi BE, Abdelmohsen K, Martindale JL, Yang X, Wood WH 3rd, Shin YM, Song JJ, Tuschl T, Becker KG, Wilson GM, Hohng S, Gorospe M.

[AU1 promotes let-7b loading on Argonaute 2.](#)

Genes Dev. 2015 Aug 1;29(15):1599-604. doi: 10.1101/gad.263749.115.

PubMed PMID: 26253535; PubMed Central PMCID: PMC4536308.

Gunzburg MJ, Sivakumaran A, Pendini NR, **Yoon JH**, Gorospe M, Wilce MC, Wilce JA.

[Cooperative interplay of let-7 mimic and HuR with MYC RNA.](#)

Cell Cycle. 2015;14(17):2729-33. doi: 10.1080/15384101.2015.1069930. Epub 2015 Jul 15.

PubMed PMID: 26177105; PubMed Central PMCID: PMC4612438.

Lee S, Lee TA, Lee E, Kang S, Park A, Kim SW, Park HJ, **Yoon JH**, Ha SJ, Park T, Lee JS, Cheon JH, Park B. [Identification of a subnuclear body involved in sequence-specific cytokine RNA processing.](#) **Nat Commun.** 2015 Jan 5;6:5791. doi: 10.1038/ncomms6791. PubMed PMID: 25557830.

Yoon JH, De S, Srikantan S, Abdelmohsen K, Grammatikakis I, Kim J, Kim KM, Noh JH, White EJ, Martindale JL, Yang X, Kang MJ, Wood WH 3rd, Noren Hooten N, Evans MK, Becker KG, Tripathi V, Prasanth KV, Wilson GM, Tuschl T, Ingolia NT, Hafner M, Gorospe M. [PAR-CLIP analysis uncovers AUF1 impact on target RNA fate and genome integrity.](#) **Nat Commun.** 2014 Nov 4;5:5248. doi: 10.1038/ncomms6248. PubMed PMID: 25366541; PubMed Central PMCID: PMC4291169.

Yoon JH, Abdelmohsen K, Gorospe M. [Functional interactions among microRNAs and long noncoding RNAs.](#) **Semin Cell Dev Biol.** 2014 Oct;34:9-14. doi: 10.1016/j.semedb.2014.05.015. Epub 2014 Jun 2. Review. PubMed PMID: 24965208; PubMed Central PMCID: PMC4163095.

Abdelmohsen K, Panda AC, Kang MJ, Guo R, Kim J, Grammatikakis I, **Yoon JH**, Dudekula DB, Noh JH, Yang X, Martindale JL, Gorospe M. [7SL RNA represses p53 translation by competing with HuR.](#) **Nucleic Acids Res.** 2014 Sep;42(15):10099-111. doi: 10.1093/nar/gku686. Epub 2014 Aug 14. PubMed PMID: 25123665; PubMed Central PMCID: PMC4150789.

Panda AC, Abdelmohsen K, **Yoon JH**, Martindale JL, Yang X, Curtis J, Mercken EM, Chenette DM, Zhang Y, Schneider RJ, Becker KG, de Cabo R, Gorospe M. [RNA-binding protein AUF1 promotes myogenesis by regulating MEF2C expression levels.](#) **Mol Cell Biol.** 2014 Aug;34(16):3106-19. doi: 10.1128/MCB.00423-14. Epub 2014 Jun 2. PubMed PMID: 24891619; PubMed Central PMCID: PMC4135590.

Ramírez CM, Lin CS, Abdelmohsen K, Goedeke L, **Yoon JH**, Madrigal-Matute J, Martin-Ventura JL, Vo DT, Uren PJ, Penalva LO, Gorospe M, Fernández-Hernando C. [RNA binding protein HuR regulates the expression of ABCA1.](#) **J Lipid Res.** 2014 Jun;55(6):1066-76. doi: 10.1194/jlr.M044925. Epub 2014 Apr 11. PubMed PMID: 24729624; PubMed Central PMCID: PMC4031938.

Yoon JH, Gorospe M. [Ribonucleoprotein therapy in Alzheimer's disease?.](#) **Aging (Albany NY).** 2014 Jun;6(6):428-9. doi: 10.18632/aging.100672. PubMed PMID: 25011426; PubMed Central PMCID: PMC4100804.

Cruz-Gallardo I, Aroca Á, Gunzburg MJ, Sivakumaran A, **Yoon JH**, Angulo J, Persson C, Gorospe M, Karlsson BG, Wilce JA, Díaz-Moreno I. [The binding of TIA-1 to RNA C-rich sequences is driven by its C-terminal RRM domain.](#) **RNA Biol.** 2014;11(6):766-76. doi: 10.4161/rna.28801. Epub 2014 Apr 24. PubMed PMID: 24824036; PubMed Central PMCID: PMC4156507.

Yoon JH, Abdelmohsen K, Srikantan S, Guo R, Yang X, Martindale JL, Gorospe M. [Tyrosine phosphorylation of HuR by JAK3 triggers dissociation and degradation of HuR target mRNAs.](#)

Nucleic Acids Res. 2014 Jan;42(2):1196-208. doi: 10.1093/nar/gkt903. Epub 2013 Oct 7.
PubMed PMID: 24106086; PubMed Central PMCID: PMC3902907.

Yoon JH, Abdelmohsen K, Gorospe M.

[Posttranscriptional gene regulation by long noncoding RNA.](#)

J Mol Biol. 2013 Oct 9;425(19):3723-30. doi: 10.1016/j.jmb.2012.11.024. Epub 2012 Nov 23. Review.
PubMed PMID: 23178169; PubMed Central PMCID: PMC3594629.

Abdelmohsen K, Panda A, Kang MJ, Xu J, Selimyan R, **Yoon JH**, Martindale JL, De S, Wood WH 3rd, Becker KG, Gorospe M.

[Senescence-associated lncRNAs: senescence-associated long noncoding RNAs.](#)

Aging Cell. 2013 Oct;12(5):890-900. doi: 10.1111/accel.12115. Epub 2013 Jul 14.
PubMed PMID: 23758631; PubMed Central PMCID: PMC3773026.

Panda AC, Grammatikakis I, **Yoon JH**, Abdelmohsen K.

[Posttranscriptional regulation of insulin family ligands and receptors.](#)

Int J Mol Sci. 2013 Sep 18;14(9):19202-29. doi: 10.3390/ijms140919202. Review.
PubMed PMID: 24051403; PubMed Central PMCID: PMC3794829.

Ramírez CM, Goedeke L, Rotllan N, **Yoon JH**, Cirera-Salinas D, Mattison JA, Suárez Y, de Cabo R, Gorospe M, Fernández-Hernando C.

[MicroRNA 33 regulates glucose metabolism.](#)

Mol Cell Biol. 2013 Aug;33(15):2891-902. doi: 10.1128/MCB.00016-13. Epub 2013 May 28.
PubMed PMID: 23716591; PubMed Central PMCID: PMC3719675.

Yoon JH, Abdelmohsen K, Kim J, Yang X, Martindale JL, Tominaga-Yamanaka K, White EJ, Orjalo AV, Rinn JL, Kreft SG, Wilson GM, Gorospe M.

[Scaffold function of long non-coding RNA HOTAIR in protein ubiquitination.](#)

Nat Commun. 2013;4:2939. doi: 10.1038/ncomms3939.
PubMed PMID: 24326307; PubMed Central PMCID: PMC4556280.

Abdelmohsen K, Tominaga-Yamanaka K, Srikantan S, **Yoon JH**, Kang MJ, Gorospe M.

[RNA-binding protein AUF1 represses Dicer expression.](#)

Nucleic Acids Res. 2012 Dec;40(22):11531-44. doi: 10.1093/nar/gks930. Epub 2012 Oct 11.
PubMed PMID: 23066106; PubMed Central PMCID: PMC3526313.

Yoon JH, Srikantan S, Gorospe M.

[MS2-TRAP \(MS2-tagged RNA affinity purification\): tagging RNA to identify associated miRNAs.](#)

Methods. 2012 Oct;58(2):81-7. doi: 10.1016/j.ymeth.2012.07.004. Epub 2012 Jul 17.
PubMed PMID: 22813890; PubMed Central PMCID: PMC3493847.

Yoon JH, Abdelmohsen K, Srikantan S, Yang X, Martindale JL, De S, Huarte M, Zhan M, Becker KG, Gorospe M.

[LincRNA-p21 suppresses target mRNA translation.](#)

Mol Cell. 2012 Aug 24;47(4):648-55. doi: 10.1016/j.molcel.2012.06.027. Epub 2012 Jul 26.
PubMed PMID: 22841487; PubMed Central PMCID: PMC3509343.

During Ph.D. training

Walters RW, Shumilin IA, **Yoon JH**, Minor W, Parker R.

[Edc3 function in yeast and mammals is modulated by interaction with NAD-related compounds.](#)

G3 (Bethesda). 2014 Apr 16;4(4):613-22. doi: 10.1534/g3.114.010470.

PubMed PMID: 24504254; PubMed Central PMCID: PMC4059234.

Hwang HS, Hwang SG, Yoon KW, **Yoon JH**, Roh KH, Choi EJ.

[CIIA negatively regulates the Ras-Erk1/2 signaling pathway through inhibiting the Ras-specific GEF activity of SOS1.](#)

J Cell Sci. 2014 Apr 15;127(Pt 8):1640-6. doi: 10.1242/jcs.139931.

PubMed PMID: 24522193.

Yun HJ, **Yoon JH**, Lee JK, Noh KT, Yoon KW, Oh SP, Oh HJ, Chae JS, Hwang SG, Kim EH, Maul GG, Lim DS, Choi EJ.

[Daxx mediates activation-induced cell death in microglia by triggering MST1 signalling.](#)

EMBO J. 2011 May 13;30(12):2465-76. doi: 10.1038/emboj.2011.152.

PubMed PMID: 21572393; PubMed Central PMCID: PMC3116283.

Buchan JR, **Yoon JH**, Parker R.

[Stress-specific composition, assembly and kinetics of stress granules in *Saccharomyces cerevisiae*.](#)

J Cell Sci. 2011 Jan 15;124(Pt 2):228-39. doi: 10.1242/jcs.078444.

PubMed PMID: 21172806; PubMed Central PMCID: PMC3010191.

Yoon JH, Choi EJ, Parker R.

[Dcp2 phosphorylation by Ste20 modulates stress granule assembly and mRNA decay in *Saccharomyces cerevisiae*.](#)

J Cell Biol. 2010 May 31;189(5):813-27. doi: 10.1083/jcb.200912019.

PubMed PMID: 20513766; PubMed Central PMCID: PMC2878948.

Yoon JH, Parker R.

[Coil-in-to snRNP assembly and Cajal bodies.](#)

Nat Struct Mol Biol. 2010 Apr;17(4):391-3. doi: 10.1038/nsmb0410-391.

PubMed PMID: 20368721.

Han SY, Hwang HS, Chae JS, Yang SJ, **Yoon JH**, Yeom YI, Choi EJ.

[CIIA induces the epithelial-mesenchymal transition and cell invasion.](#)

Biochem Biophys Res Commun. 2009 Sep 25;387(3):548-52. doi: 10.1016/j.bbrc.2009.07.050.

PubMed PMID: 19615336.

Kim EK, Noh KT, **Yoon JH**, Cho JH, Yoon KW, Dreyfuss G, Choi EJ.

[Positive regulation of ASK1-mediated c-Jun NH\(2\)-terminal kinase signaling pathway by the WD-repeat protein Gemin5.](#)

Cell Death Differ. 2007 Aug;14(8):1518-28. doi: 10.1038/sj.cdd.4402157.

PubMed PMID: 17541429.

MENTORING EXPERIENCE

- a. Kyung-Won Min, Ph.D. (**Postdoctoral Scholar**, 2015 – 2018)
current: Associate Professor in Gangneung-Wonju National University, Korea
- b. Lawson Lloyd (**Lab Technologist**, 2015 – 2016)
current: Ph.D. Student in University of Chicago
- c. Cale Cummings (**Lab Volunteer**, College of Charleston, 2016 - 2018)
current: M.D. Student in Medical University of South Carolina
- d. Joseph Karam (**Master Student**, Dr. Vamsi Gangaraju Lab, 2015 – 2016)
current: Ph.D. Student in Medical University of South Carolina
- e. Sam Wrenn (**Summer Student**, University of Wisconsin, 2016)
- f. Richard Zealy (**Volunteer**, The Citadel, The Military College of SC, 2016)
- g. Sylvia Davila (**Lab Technologist**, 2016 – 2018)
- h. Aubrey Smith (**Graduate Student**, 2016)
current: Ph.D. from Medical University of South Carolina
- i. Brandon Presswood (**Lab Volunteer**, College of Charleston, 2017)
current: Lab technician in University of North Carolina
- j. Sarah English (**Lab Volunteer**, College of Charleston, 2017)
- k. Daniel Makowsky (**Lab Volunteer**, 2017)
- l. Isabelle Malouf (**Lab Volunteer**, 2017)
current: Lab technician in Johns Hopkins University
- m. Haley Thigpen (**Summer Student**, 2017)
- n. Holland McDowell (**Lab Volunteer**, 2017)
- o. Sean Lee (**Lab Volunteer**, 2017)
- p. Richard Zealy (**Master Student**, 2017 – 2018)
- q. Mikhail Fomin (**Master Student**, 2018)
- r. Grayson Evans (**M.D/Ph.D. Student**, 2018)
- s. Holland McDowell (**Summer Student**, 2018)
current: M.D. student in George Washington University
- t. Erick Won (**Lab Volunteer**, 2018 - 2019)
current: College student in Clemson University
- u. Catherine Bridges (**Ph.D. Student**, Dr. Antonis Kourtidis Lab, 2018 - 2022)
- v. Sonali Jathar (**Visiting Student**, 2019)
- w. Sean Lee (**Lab Volunteer**, 2019)
current: College student in University of South Carolina
- x. Aalya Malik (**Lab Volunteer**, 2019)
- y. Shinjini Misra (**Lab Volunteer**, 2019)
- z. Jung-Hyun Cho (**Postdoctoral Scholar**, 2019 – 2020)
- aa. Ulysses Roesner (**Lab Technologist**, 2019 – 2020)
current: Lab Technician in University of Wisconsin
- bb. Yoo Lim Chun (**Visiting Student**, 2020 – 2020)
current: Ph.D. from Kyung Hee University, Korea.
- cc. Kelly Misra (**Lab Technologist**, 2020 – 2020)
current: Lab Technologist in Medical University of South Carolina
- dd. Megan Maples (**Lab Technologist**, 2020 – 2020)
current: Lab Specialist in Charleston, SC.

- bb. Marina Howard-McGuire (**Lab Volunteer**, 2020 – 2021)
current: M.D. student from University of Washington
- cc. Nathan T. Millison (**Summer Student**, 2021)
current: College student in Washington & Jefferson College
- dd. Syed Shah (**Visiting Scholar**, 2021)
current: Clinician in Columbia, SC
- ee. Mohamad Hani Lababidi (**Visiting Scholar**, 2021)
current: Clinician in Columbia, SC
- ff. Benjamin Deaton (**Lab Volunteer**, 2021)
- gg. Seungbeom Ko (**Postdoctoral Scholar**, 2021 - 2023)
- hh. Clay T. Yeager (**Summer Student**, 2022)
current: College student in Washington & Jefferson College
- ii. Audrey Boyette (**Summer Student**, 2022)
current: College student in University of South Carolina
- jj. Juliana Palmera (**Summer Student**, 2022)
- kk. London Newman (**Lab Volunteer**, 2022)
- ll. Suyoung Choi (**Visiting Scholar**, 2023)
current: Ph.D. student in Chungnam National University, Korea
- mm. Ji-Hoon Jeong (**Postdoctoral Scholar**, 2023 - 2024)
- nn. Hyejin Mun (**Clinical Laboratory Technician**, 2023 - Present)
- oo. Jayden Lee (**Lab Volunteer**, 2024)
current: College student in University of Oklahoma, Norman, OK
- pp. Kane Hoffman (**Lab Volunteer**, 2024)
current: College student in University of Oklahoma, Norman, OK
- qq. Sydney Lewis (**Summer Student**, 2024) DiCR program, OUHSC
- rr. Ahmet Eroglu (**Summer Student**, 2024) BRIDGE program, OUHSC
- ss. Nniharika Warty (**Summer Student**, 2024)
current: College student in University of Oklahoma, Norman, OK
- tt. Haripriya Gupta (**Postdoctoral Scholar**, 2024 - 2024)
- uu. Min Jeong Jo (**Postdoctoral Scholar**, 2024 - 2024)
- vv. Kyoung-Min Choi (**Postdoctoral Scholar**, 2024 - 2025)
- ww. Reagan Miller (**Graduate Student**, Dr. Mehla Lab, 2024 - Present)
- xx. Seonghyun Ryu (**Graduate Student**, Dr. Kim Lab, 2024 - Present)
- yy. Zahra Asadi (**Graduate Student**, Dr. Mehla Lab, 2025 - Present)
- zz. Chang Hoon Shin (**Postdoctoral Fellow**, 2025 - Present)
- åå. Ryan T. Westrope (**Lab Volunteer**, 2025)
current: College student in University of Oklahoma, Norman, OK
- ää. Michelle H. Shay (**Lab Volunteer**, 2025)
current: College student in University of Oklahoma, Norman, OK
- öö. Edward Nguyen (**Lab Volunteer**, 2025)
current: Oklahoma School of Science and Mathematics, OKC, OK
- aaa. Dongin Kim (**Assistant Professor**, 2025) College of Pharmacy, U of Oklahoma, OK
- bbb. Nirmal Choradia (**Assistant Professor**, 2025) College of Medicine, U of Oklahoma, OK

TEACHING EXPERIENCE

Techniques and Experimental Design (CGS 768, 2 Credit Hours, 2016 – 2019)
Cell Systems II (BMSC 6052, 2 Credit Hours, 2023 – Present)
Cell Systems I (BMSC 6051, 2 Credit Hours, 2024 – Present)
Interdisciplinary First Year Journal Club (BMSC 5221, 1 Credit Hour, 2024 – Present)

JOURNAL PEER-REVIEWER

- a. **Editorial board (Molecules and Cells, 2021 – Present)**
- b. **Editorial board (Cell Cycle, 2025 – Present)**
- c. **Ad Hoc Reviewers** (Nature Communications, Clinical and Molecular Hepatology, Journal of Hematology & Oncology, Signal Transduction and Targeted Therapy, MedComm, Cancer Communications, Cancer and Metastasis Reviews, eLife, Nucleic Acids Research, PLoS Biology, Oncogene, FASEB Journal, Scientific Reports, BMC Molecular Biology, Aging Cell, WIREs RNA, Theranotics, BMC Genomics, Clinical Epigenetics, Gene, Experimental Dermatology, Molecules and Cells)
- d. Past: Editorial board (MicroRNA, 2018 – 2023)
- e. Past: Editorial board (Frontiers in Neuroscience, 2018 – 2022)
- f. Past: Editorial board (International Journal of Molecular Sciences, 2019 – 2024)
- g. Past: Editorial board (Biology, 2021 – 2024)
- h. Past: Associate Editor (Frontiers in Genetics, 2022 – 2024)
- i. Past: Reviewer board (Cells, 2020 – 2024)
- j. Past: Reviewer board (non-coding RNA, 2021 – 2024)

PRESENTATIONS

Invited Oral Presentations:

- a. RNA metabolism in aging and aging-associated diseases
Chungnam National University 2025, Korea
Soonchunhyang Institute of Medi-bio Science 2025, Korea
Seoul National University 2025, Korea
- b. Long noncoding RNAs in metabolic disorders
KAIST 2024, Korea
DGIST 2024, Korea
Chonnam National University 2024, Korea
Chungnam National University 2024, Korea
Sungkyunkwan University 2024, Korea
University of Oklahoma, Department of Pharmaceutical Sciences 2024, OKC, OK
2nd International Conference on Innovations and Advances in Cancer Research and Treatment 2024, Boston, MA
Cell and Experimental Biology Conferences 2025, Houston, TX
Kyungpook National University 2025, Korea
- c. Profiling of ionizing radiation-sensitive mRNAs
Korea Institute of Radiological & Medical Sciences 2023, Korea
Chungnam National University 2023, Korea

- d. RNA-binding Protein and Precursor mRNA Decay in Inflammation
4th International Conference on Cell and Experimental Biology 2023, Houston, TX
Seoul National University 2023, Korea
Korea University 2023, Korea
Yonsei University 2023, Korea
POSTECH 2023, Korea
DGIST 2023, Korea
- e. mature microRNA-binding proteins and extracellular release
RNA Society Meeting 2022, Boulder, CO
American Society for Exosomes and Microvesicles 2022, Pacific Grove, CA
Keystone Symposia - Protein RNA Interactions 2023, Vancouver, Canada
University of Oklahoma, Department of Physiology 2023, Oklahoma City, OK
- f. Intestinal Exosomes in Alcohol-Induced Liver Injury
Gordon Research Conference 2022, Ventura, CA
Louisiana State University 2022, New Orleans, LA
- g. Long noncoding RNAs in glucose metabolism and breast cancer
Emory University 2021, Atlanta, GA
Penn State University 2021, Hershey, PA
New York Medical College 2021, Valhalla, NY
Thomas Jefferson University 2022, Philadelphia, PA
National Cancer Center Korea 2022, Korea
Kyung Hee University 2022, Korea
Hanyang University 2022, Korea
Cancer Research & Drug Development 2022, Baltimore, MD
Wayne State University 2022, Detroit, MI
- h. Existence, profiling, and function of microRNA-binding proteins.
Korea Genome Organization Annual Conference 2021, Seoul, Korea
- i. Hippo/Mst1 is essential for adipogenic aging.
KSBMB 2020, Seoul, Korea
- j. CYP2E1 regulation of miRNAs in alcohol-induced intestine and liver injury
International Symposium on ALPD and Cirrhosis 2020, Seoul, Korea
- k. Intestinal miRNA Release by Phosphorylation of RNA-Binding Protein AUF1
Gordon Research Conference 2019, Ventura, CA
- l. Mechanisms of Long noncoding RNA translation.
KSBMB 2017, Pusan, Korea
- m. RNA methylation and novel microRNA-binding proteins in human aging.
MD Anderson Cancer Center 2016, Houston, TX
- n. RNA methylation in human aging.
KSBMB 2016, Seoul, Korea
- o. Integrative AUF1 PAR-CLIP analysis uncovers AUF1 role in translation and genome integrity.
RiboClub 2013, Orford, Québec

Je-Hyun Yoon, Ph.D.

- p. LincRNA-p21 Suppresses Target mRNA translation
The RNA Meeting 2012, Ann Arbor, MI, US
- q. Genome-wide role of P-bodies mRNP in mRNA decay of *Saccharomyces cerevisiae*
ASBMB 2011, Washington, D.C.

FUNDING SOURCES

Ongoing

Institution Startup

Yoon (PI)

04/01/23-03/31/28

University of Oklahoma

Energy metabolism in Cancer and Aging

The goal of this project is to study roles of energy metabolites in cancer and aging.

Role: PI

Technology Innovation R&D Program

Kang (PI); Yoon (Consultant)

07/01/25-06/30/26

Korea Technology and Information Promotion Agency

Development of IBD-oriented Treg therapy and AI-based Treg-specific automated cell culture system

The goal of this project is to develop strategies for treating Inflammatory bowel disease by using Treg therapy.

Role: Consultant

R01AA027532

Yoon (PI)

08/01/19-07/31/25

NIH/NIAAA

Intestinal exosomes in alcohol-induced liver injury

The goal of this project is to study roles of intestine-originated miRNAs in alcohol-induced liver injury.

Role: PI

W81XWH2211040

Choo (PI); Yoon (MPI)

09/15/22-06/15/25

Department of Defense/Duchenne Muscular Dystrophy Research Program

The Role of Circular-Utrophin RNAs for Muscle Sparing in DMD

The goal of this project is to study roles of circular RNAs processed from Utrophin mRNA.

Role: MPI

Completed

R56AG069769

Ogretmen (PI); Yoon (co-I)

09/15/20-08/31/21

NIH/NIA

Sphingolipid Metabolism and Signaling in the Regulation of Senescence and Aging

The goal of this project is to study roles of sphingosine 1-phosphate in senescence and aging.

Role: co-Investigator

P20 GM130457

Duncan (PI); Yoon (Project PI)

12/01/19 (declined)

NIH/NIGMS

CYP2E1 regulation of ethanol-induced miRNAs in intestinal epithelial cells

The goal of this project is to study roles of miRNA targeting CYP2E1 in alcohol-induced intestine injury.

Role: Project PI (7719)

P30CA138313

Leone (PI); Cho (Project PI); Yoon (Mentor)

07/01/19-03/31/20

Hollings Cancer Center Postdoctoral Fellowship

LncRNA Regulation of Glycolysis in Breast Cancer

The goal of this project is to study roles of long noncoding RNAs in glucose metabolism of breast cancer.

Je-Hyun Yoon, Ph.D.

Role: Mentor

442659 Yoon (PI) 07/01/16-06/30/17
Simmons Foundation: Autism Research Initiative-Explorer Awards
Analysis of Shank3 Ubiquitination Regulation by RNF31 Phosphorylation
The goal of this project is to study roles of Autism-associated regulation of Shank3 ubiquitination by Hippo/Mst1 pathway.
Role: PI

P30AG050911 Richardson (PI); Yoon (Pilot Project PI) 07/01/17-06/30/18
NIH/NIA
Oklahoma Nathan Shock Center of Excellence in the Biology of Aging: Pilot Project
RNA Methylation in Human Aging and Senescence
The goal of this project is to study roles of m6A RNA modification in process of human aging and cellular senescence.
Role: Pilot Project PI

P30AG013280 Rabinovitch (PI); Yoon (Pilot Project PI) 07/01/17-06/30/18
NIH/NIA
University of Washington Nathan Shock Center for Excellence in the Basic Biology of Aging: Pilot Project
RNA Granules in Mitochondrial Function and Lifespan Regulation
The goal of this project is to study roles of assembly of RNA granules and mitochondrial mRNA decay in eukaryotic lifespan.
Role: Pilot Project PI

NA Yoon (PI) 10/01/17-09/30/18
College of Medicine Digestive Diseases Pilot & Feasibility Studies Award
CYP2E1 Regulation of Alcohol-induced miRNAs
The goal of this project is to study roles of miRNA targeting CYP2E1 in gut leakiness.
Role: PI

IRG-16-185-17 Watson (PI); Yoon (Project PI) 05/01/17-12/31/18
American Cancer Society – Institutional Research Grant
Glycolytic Enzymes Scaffold of Long Noncoding RNA *NEAT1* in Breast Cancer
The goal of this project is to study roles of long noncoding RNA *NEAT1* in breast cancer glycolysis.
Role: Project PI

P30CA138313 Leone (PI); Yoon (Project PI) 02/01/18-01/31/19
Hollings Cancer Center Idea Development Award
Glycolytic Senescence in Tumor Suppression
The goal of this project is to study roles of glucose metabolism in senescence suppressing breast cancer glycolysis.
Role: PI

REFERENCES

Roy Parker, Ph. D.

Investigator of the Howard Hughes Medical Institute
Professor and Cech-Leinwand Endowed Chair of Biochemistry
the University of Colorado at Boulder
3415 Colorado Avenue
JSCBB B450
Boulder, CO 80303, US
Phone: (303) 735-7780
Email: roy.parker@colorado.edu

Myriam Gorospe, Ph. D.

Senior Investigator, RNA Regulation Section
Laboratory of Genetics
National Institute on Aging, National Institutes of Health
Biomedical Research Center
251 Bayview Blvd.
Baltimore, MD, 21224, US
Phone: (410) 558-8443
Fax: (410) 558-8386
Email : gorospem@grc.nia.nih.gov

J. Alan Diehl, Ph. D.

Professor and Chair of Biochemistry
the Case Western Reserve University
10900 Euclid Avenue
Cleveland, OH 44106, US
Phone: (216) 368-0268
Email: jad283@case.edu

Min Sup Song, Ph. D.

Associate Professor of Molecular and Cellular Oncology
the University of Texas MD Anderson Cancer Center
Phone: (713) 745-4904
Email: msong1@mdanderson.org