Curriculum Vitae

1. Personal Information

Jae-Hoon Choi,
Professor
Department of life science, College of Natural Sciences, Wangsimni-ro 222, Seongdong Gu, Seoul 133-791, Republic of Korea

Academic Appointments

2011 ~ 2013, Assistant Professor, Hanyang University, Seoul, Republic of Korea
2013 ~ 2018, Associate Professor, Hanyang University, Seoul, Republic of Korea
2018 ~ present, Professor, Hanyang University, Seoul, Republic of Korea

Educational Background

1. Feb., 1998 B.S., DVM, College of Veterinary Medicine, Seoul National University
2. Feb., 2000 M.S. in veterinary pathology, College of Veterinary Medicine, Seoul National University
3. Aug., 2003 Ph.D. in veterinary pathology, College of Veterinary Medicine, Seoul National University

Training history

1. 2003.11-2004.05 Postdoctoral Fellow in Korea Research Institute of Bioscience and Biotechnology, Republic of Korea
2. 2004.05-2006.07 Postdoctoral Fellow, Ewha Womans University, Republic of Korea
3. 200608-2011.02 Postdoctoral Associate, Rockefeller University, USA (PI: Ralph M Steinman)
4. 2017.01-2018.01 Visiting Scholar, Department of Pathology and Immunology, Washington University in Saint Louis, School of Medicine

License

1998, Korean Doctor of Veterinary Medicine

2. Research Activities

1. Woo SH, Kyung D, Hyun Lee S, Seong Park K, Kim M, Kim K, Kwon HJ, Won YS, Choi I, Park YJ, Go DM, Oh JS, Kee Yoon W, Sam Paik S, Hyeon Kim J, Kim YH, Choi JH*****, Kim DY*****. TXNIP Suppresses the Osteochondrogenic Switch of VSMCs in Atherosclerosis. ***Circ Res***. 2022 Nov 30. doi: 10.1161/CIRCRESAHA.122.321538. Online ahead of print. **(*Corresponding author)**
2. Kim KD, Choe JM, Myoung S, Lee SH, Kim M, Choi JH*****, Park HT*****. Estradiol treatment increases M2-like visceral adipose tissue macrophages in obese ovariectomized mice regardless of its anorectic action. ***Anim Cells Syst*** (Seoul). 2022 Sep 29;26(5):243-253. **(*Corresponding author)**
3. Lee SH, Kim N, Kim M, Woo SH, Han I, Park J, Kim K, Park KS, Kim K, Shim D, Park SE, Zhang JY, Go DM, Kim DY, Yoon WK, Lee SP, Chung J, Kim KW, Park JH, Lee SH, Lee S, Ann SJ, Lee SH, Ahn HS, Jeong SC, Kim TK, Oh GT, Park WY, Lee HO*****, Choi JH*****. Single-cell transcriptomics reveal cellular diversity of aortic valve and the immunomodulation by PPARγ during hyperlipidemia. ***Nat Commun***. 2022 Sep 17;13(1):5461. **(*Corresponding author)**

4. K Kim, SE Park, JS Park, JH Choi, Characteristics of plaque lipid-associated macrophages and their possible roles in the pathogenesis of atherosclerosis. ***Curr Opin Lipidol***., 2022 Aug 4. doi: 10.1097/MOL **(Corresponding author)**
5. Go DM, Lee SH, Lee SH, Woo SH, Kim K, Kim K, Park KS, Park JH, Ha SJ, Kim WH, Choi JH*****, Kim DY*****. Programmed Death Ligand 1-Expressing Classical Dendritic Cells Mitigate Helicobacter-Induced Gastritis. ***Cell Mol Gastroenterol Hepatol***. 2021;12(2):715-739 **(*Corresponding author)**
6. Jeon S, Kim TK, Jeong SJ, Jung IH, Kim N, Lee MN, Sonn SK, Seo S, Jin J, Kweon HY, Kim S, Shim D, Park YM, Lee SH, Kim KW, Cybulsky MI, Shim H, Roh TY, Park WY, Lee HO, Choi JH, Park SH, Oh GT. Anti-Inflammatory Actions of Soluble Ninjurin-1 Ameliorate Atherosclerosis. ***Circulation.*** 2020 Nov 3;142(18):1736-1751**.**
7. Williams JW, Zaitsev K, Kim KW, Ivanov S, Saunders BT, Schrank PR, Kim K, Elvington A, Kim SH, Tucker CG, Wohltmann M, Fife BT, Epelman S, Artyomov MN, Lavine KJ, Zinselmeyer BH, Choi JH, Randolph GJ,.Limited proliferation capacity of aortic intima resident macrophages requires monocyte recruitment for atherosclerotic plaque progression. ***Nat Immunol***. 2020 Oct;21(10):1194-1204.
8. Lee J, Choi JH*. Deciphering Macrophage Phenotypes upon Lipid Uptake and Atherosclerosis. ***Immune Netw.*** 2020 Jun 22;20(3):e22. **(Corresponding author)**
9. Jang HS, Kim K, Lee MR, Kim SH, Choi JH*, Park MJ*. Treatment of Growth Hormone attenuates Hepatic Steatosis in Hyperlipidemic Mice via Downregulation of Hepatic CD36 Expression. ***Anim Cells Syst***. 2020 Jun 12;24(3):151-159. **(*Corresponding author)**
10. Jin J, Jung IH, Moon SH, Jeon S, Jeong SJ, Sonn SK, Seo S, Lee MN, Song EJ, Kweon HY, Kim S, Kim TK, Kim J, Cho HR, Choi JH, Kwon B, Oh GT. CD137 Signaling Regulates Acute Colitis via RALDH2-Expressing CD11b-CD103+ DCs. ***Cell Rep***. 2020 Mar 24;30(12):4124-4136.
11. Choi EW, Lee M, Song JW, Kim K, Lee J, Yang J, Lee SH, Kim IY, Choi JH, Seong JK. Fas mutation reduces obesity by increasing IL-4 and IL-10 expression and promoting white adipose tissue browning. ***Sci Rep***. 2020 Jul 20;10(1):12001.
12. Lee DK, Jang HS, Chung H, Jeon S, Jeong J, Choi JH*, Cho WS*. Aggravation of atherosclerosis by pulmonary exposure to indium oxide nanoparticles. ***Nanotoxicology***. 2020 Apr;14(3):355-371.doi: 10.1080/17435390.2019.1704590. **(Corresponding author)**
13. Park JB, Suh M, Park JY, Park JK, Kim YI, Kim H, Cho YS, Kang H, Kim K, Choi JH, Nam JW, Kim HK, Lee YS, Jeong JM, Kim YJ, Paeng JC, Lee SP. Assessment of Inflammation in Pulmonary Artery Hypertension by 68Ga-Mannosylated Human Serum Albumin. ***Am J Respir Crit Care Med***. 2020 Jan 1;201(1):95-106.
14. Kim K, Choi JH. Involvement of immune responses in pulmonary arterial hypertension; lessons from rodent models. ***Lab Anim Res.*** 2019 Nov 6;35:22. **(Corresponding author)**
15. Lee JO, Yang YM, Choi JH, Kim TW, Lee JW, Kim YP. Microbial Redox Regulator-Enabled Pulldown for Rapid Analysis of Plasma Low-Molecular-Weight Biothiols. ***Anal Chem***. 2019 Aug 6;91(15):10064-10072.
16. Kim K, Choi JH. Response by Kim and Choi to Letter Regarding Article, "Transcriptome Analysis Reveals Nonfoamy Rather Than Foamy Plaque Macrophages Are Proinflammatory in Atherosclerotic Murine Models". ***Circ Res***. 2018 Nov 9;123(11):e50. **(Corresponding author)**
17. Lee SH, Choi JH. Involvement of inflammatory responses in the early development of calcific aortic valve disease: lessons from statin therapy. ***Anim Cells Syst*** **(Seoul).** 2018 Sep 28;22(6):390-399. **(Corresponding author)**
18. Kim K, Shim D, Lee JS, Zaitsev K, Williams JW, Kim KW, Jang MY, Jang HS, Yun TJ, Lee SH, Yoon WK, Prat A, Seidah NG, Choi J, Lee SP, Yoon SH, Nam JW, Seong JK, Oh GT, Randolph GJ, Artyomov MN, Cheong C, Choi JH, Transcriptome analysis reveals non-foamy rather than foamy plaque macrophages are pro-inflammatory in atherosclerotic murine models. ***Circ Res.,*** 2018 Oct 26;123(10):1127-1142. **(Corresponding author)**

19. Lee JS, Jeong SJ, Kim S, Chalifour L, Yun TJ, Miah MA, Li B, Majdoubi A, Sabourin A, Keler T, Guimond JV, Haddad E, Choi EY, Epelman S, Choi JH, Thibodeau J, Oh GT, Cheong C. Conventional Dendritic Cells Impair Recovery after Myocardial Infarction. ***J Immunol***. 2018 Sep 15;201(6):1784-1798.
20. Lee MY, Kang JS, Go RE, Byun YS, Wi YJ, Hwang KA, Choi JH, Kim HC, Choi KC, Nam KH. Collagen-Induced Arthritis Analysis in Rhbdf2 Knockout Mouse. ***Biomol Ther (Seoul).*** 2018 May 1;26(3):298-305.
21. Kim TG, Kim SH, Park J, Choi W, Sohn M, Na HY, Lee M, Lee JW, Kim SM, Kim DY, Kim HP, Choi JH, Park CG, Lee MG. Skin-Specific CD301b+ Dermal Dendritic Cells Drive IL-17-Mediated Psoriasis-Like Immune Response in Mice. ***J Invest Dermatol***. 2018 Apr;138(4):844-853.
22. Min J, Yang D, Kim M, Haam K, Yoo A, Choi JH, Schraml BU, Kim YS, Kim D, Kang SJ. Inflammation induces two types of inflammatory dendritic cells in inflamed lymph nodes. ***Exp Mol Med***. 2018 Mar 16;50(3):e458.
23. Jeong SJ, Kim S, Park JG, Jung IH, Lee MN, Jeon S, Kweon HY, Yu DY, Lee SH, Jang Y, Kang SW, Han KH, Miller YI, Park YM, Cheong C, Choi JH, Oh GT. Prdx1 (peroxiredoxin 1) deficiency reduces cholesterol efflux via impaired macrophage lipophagic flux. ***Autophagy***. 2018;14(1):120-133.
24. Ul Ain Q, Chung H, Chung JY, Choi JH, Kim YH. Amelioration of atherosclerotic inflammation and plaques via endothelial adrenoceptor-targeted eNOS gene delivery using redox-sensitive polymer bearing l-arginine. ***J Control Release***. 2017 Jul 11;262:72-86.
25. Williams JW, Elvington AF, Ivanov S, Kessler S, Luehmann H, Baba O, Saunders BT, Kim KW, Johnson MW, Craft CS, Choi JH, Sorci-Thomas MG, Zinselmeyer BH, Brestoff JR, Liu Y, Randolph GJ. Thermoneutrality but not UCP1 Deficiency Suppresses Monocyte Mobilization into Blood. ***Circ Res***. 2017 Sep 1;121(6):662-676.
26. Ryu SH, Na HY, Sohn M, Choi W, In H, Shin HS, Choi JH, Park CG. Competent antigen-presenting cells are generated from the long-term culture of splenocytes with granulocyte-macrophage colony-stimulating factor. ***Immunol Lett***. 2017 Aug;188:96-107.
27. Yun TJ, Lee JS, Shim D, Choi JH*, Cheong C*. Isolation and Characterization of Aortic Dendritic Cells and Lymphocytes in Atherosclerosis. ***Methods Mol Biol***. 2017;1559:419-437. **(*Corresponding author)**
28. Lee KS, Yu J, Shim D, Choi H, Jang MY, Kim KR, Choi JH*, Cho SH*. Local Immune Responses in Children and Adults with Allergic and Nonallergic Rhinitis. ***PLoS One***. 2016 Jun 9;11(6):e0156979. **(*Corresponding author)**
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30. Shin JH, Lee SH, Kim YN, Kim IY, Kim YJ, Kyeong DS, Lim HJ, Cho SY, hoi J, Wi YJ, Choi JH, Yoon YS, Bae YS, Seong JK. AHNAK deficiency promotes browning and lipolysis in mice via increased responsiveness to β-adrenergic signalling. ***Sci Rep***. 2016 Mar 18;6:23426.
31. Lee SH, Choi JH. Involvement of Immune Cell Network in Aortic Valve Stenosis: Communication between Valvular Interstitial Cells and Immune Cells. ***Immune Netw***. 2016 Feb;16(1):26-32. **(Corresponding author)**
32. Lee KM, Nam K, Oh S, Lim J, Kim RK, Shim D, Choi JH, Lee SJ, Yu JH, Lee JW, Ahn SH, Shin I. ECM1 regulates tumor metastasis and CSC-like property through stabilization of β-catenin. ***Oncogene***. 2015 Dec 10;34(50):6055-65.
33. Lee MR, Yoon J, Shim D, Jang HS, Oh SW, Suh SH, Choi JH*, Oh GT*. Retnla overexpression attenuates allergic inflammation of the airway. ***PLoS One***, 2014 Nov 21;9(11):e112666. **(*Corresponding author)**

34. Jung IH, Choi JH, Jin J, Jeong SJ, Jeon S, Lim C, Lee MR, Yoo JY, Sonn SK, Kim YH, Choi BK, Kwon BS, Seoh JY, Lee CW, Kim DY, Oh GT. CD137-inducing factors from T cells and macrophages accelerate the destabilization of atherosclerotic plaques in hyperlipidemic mice. ***FASEB J***. 2014 Nov;28(11):4779-91.
35. Lee MR, Lim CJ, Lee YH, Park JG, Sonn SK, Lee MN, Jung IH, Jeong SJ, Jeon S, Lee M, Oh KS, Yang Y, Kim JB, Choi HS, Jeong W, Jeong TS, Yoon WK, Kim HC, Choi JH, Oh GT. The adipokine Retnla modulates cholesterol homeostasis in hyperlipidemic mice. ***Nat Commun***. 2014 Jul 15;5:4410.
36. Ruane D, Brane L, Reis BS, Cheong C, Poles J, Do Y, Zhu H, Velinzon K, Choi JH, Studt N, Mayer L, Lavelle EC, Steinman RM, Mucida D, Mehandru S. Lung dendritic cells induce migration of protective T cells to the gastrointestinal tract. ***J Exp Med***. 2013 Aug 26;210(9):1871-88.
37. Rodriguez JM, Wolfrum S, Robblee MM, Chen KY, Gilbert ZN, Choi JH, Teupser D, Breslow JL. Altered Expression of Raet1e, an MHC Class 1-Like Molecule, Underlies the Atherosclerosis Modifier Locus Ath11 10b. ***Circ Res***. 2013 Oct 12;113(9):1054-64.
38. Jo DH, Son D, Na Y, Jang M, Choi JH, Kim JH, Yu YS, Seok SH, Kim JH. Orthotopic transplantation of retinoblastoma cells into vitreous cavity of zebrafish for screening of anticancer drugs. ***Mol Cancer***. 2013 Jul 9;12:71.
39. Yoon Y, Yoon J, Jang MY, Na Y, Ko Y, Choi JH*, Seok SH*. ***PLoS One*****.** 2013 Jun 25;8(6):e66970 **(*Corresponding Author).**
40. Choi JH*, Yoo JY*, Kim SO, et al., KR-31543 reduces the production of proinflammatory molecules in human endothelial cells and monocytes and attenuates atherosclerosis in mouse model. ***Exp Mol Med***. 2012;44(12):733-9. *equal contribution
41. Cheong C, Choi JH. Dendritic cells and regulatory T cells in atherosclerosis. ***Mol Cells***. 2012;34(4):341-7. **(Corresponding Author)**
42. Choi JH, Cheong C, Dandamudi CB, et al., Flt3 signaling-dependent dendritic cells protect against atherosclerosis. ***Immunity***. 2011 Nov 23;35(5):819-31.
    -Preview by Bedouli S and Heath WR. A local role for CD103+ dendritic cells in atherosclerosis. ***Immunity*** 23:665-7 (2011)
    -Article identified as outstanding by F1000's
    -Highlighted by Ralph M. Steinman: Decisions About Dendritic Cells: Past, Present and Future. ***Annu. Rev. Immunol***. 30:1-22 (2012)
43. Park JG, Yoo JY, Jeong SJ, Choi JH, et al., Peroxiredoxin 2 Deficiency Exacerbates Atherosclerosis in Apolipoprotein E-Deficient Mice. ***Circ Res***. 2011 Sep 16;109(7):739-49.
44. Choi JH*, Park JG*, Jeon HJ, et al., 2.5-(4-Hydroxy-2,3,5-trimethylbenzylidene) thiazolidine-2,4-dione attenuates atherosclerosis possibly by reducing monocyte recruitment to the lesion. ***Exp Mol Med*****.** 2011 Aug 31;43(8):471-8.
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46. Do Y, Koh H, Park CG, Dudziak D, Seo P, Mehandru S, Choi JH, Cheong C, Park S, Perlin DS, Powell BS, Steinman RM. Targeting of LcrV virulence protein from Yersinia pestis to dendritic cells protects mice against pneumonic plague. ***Eur J Immunol***. 2010 Oct;40(10):2791-6.
47. Cheong C, Matos I, Choi JH, et al., Fully differentiated, DC-SIGN/CD209+, monocyte-derived dendritic cells are recruited to T cell areas in vivo in response to microbial stimulation. ***Cell***. 2010 Oct 29;143(3):416-29.
    -Preview by Sallusto F and Lanzavecchia A. Monocytes Join the Dendritic Cell Family. ***Cell*** 143:339-340(2010)
    -Highlighted by Bordon Y. Prime time for monocytes. ***Nat. Rev. Immunol***. 10:808 (2010)
    -Article identified as outstanding by ***F1000's***.
    -Highlighted by Detlef Schlondorff. A novel way of generating dendritic cells from monocytes.

Kidney Int. 79: 375-376 (2011)
-Highlighted by Ralph M. Steinman: Decisions About Dendritic Cells: Past, Present and Future. ***Annu. Rev. Immunol.*** 30:1-22 (2012)
-Highlighted by **Cell** press as a Nobel Prize work for Physiology or Medicine 2011 (http://www.cell.com/cellpress/nobelprize2011)

48. Choi JH, Jeon HJ, Park JG, et al., Anti-atherogenic effect of BHB-TZD having inhibitory activities on cyclooxygenase and 5-lipoxygenase in hyperlipidemic mice. ***Atherosclerosis***. 2010 Sep;212(1):146-52.
49. Cheong C, Matos I, Choi JH, et al., New monoclonal anti-mouse DC-SIGN antibodies reactive with acetone-fixed cells. ***J Immunol Methods***. 2010 Aug 31;360(1-2):66-75.
50. Lee MN, Lee SN, Kim SH, Kim B, Jung BK, Seo JH, Park JH, Choi JH, Yim SH, Lee MR, Park JG, Yoo JY, Kim JH, Lee ST, Kim HM, Ryeom S, Kim KW, Oh GT. Roles of Arrest-Defective Protein 1225 and Hypoxia Inducible Factor-1α in Tumor Growth and Metastasis. ***J Natl Cancer Inst***. 2010;102(6):426-442.
51. Jeon HJ*, Choi JH*, Jung IH*, Park JG, et al., CD137 (4-1BB) Deficiency Reduces Atherosclerosis in Hyperlipidemic Mice. ***Circulation***. 2010;121(9):1124-1133. *equal contribution
52. Choi JH, Do Y, Cheong C, Koh H, Boscardin SB, Oh YS, Bozzacco L, Trumpfheller C, Park CG, Steinman RM. Identification of antigen presenting dendritic cells in mouse aorta and cardiac valves. ***J Exp Med***. 2009;206(3):497-505. (**Cover paper of March issue**)
53. Park SH, Cheong C, Idoyaga J, Kim JY, Choi JH, Do Y, Lee H, Jo JH, Oh YS, Im W, Steinman RM, Park CG. Generation and application of new rat monoclonal antibodies against synthetic FLAG and OLLAS tags for improved immunodetection. ***J Immunol Methods***. 2008;331(1-2):27-38.
54. Cheong C, Idoyaga J, Do Y, Pack M, Park SH, Lee H, Kang YS, Choi JH, Kim JY, Bonito A, Inaba K, Yamazaki S, Steinman RM, Park CG. Production of monoclonal antibodies that recognize the extracellular domain of mouse langerin/CD207. ***J Immunol Methods***. 2007;324(1-2):48-62.
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58. Nam KW, Kim J, Hong JJ, Choi JH, Mar W, Cho MH, Kim YN, Oh SR, Lee HK, Nam KH, Oh GT. Inhibition of cytokine-induced IkB kinase activation as a mechanism contributing to the anti-atherogenic activity of Tilanin in hyperlipidemic mice. ***Atherosclerosis*** 2005;180(1):27-35.
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60. Choi JH, Oh SW, Kang MS, Kwon HJ, Oh GT, Kim DY. Trichostatin A attenuates airway inflammation in mouse asthma model. ***Clin Exp Allergy***. 2005;35(1):89-96.
61. Jeong S, Han M, Lee H, Kim M, Kim J, Nicol CJ, Kim BH, Choi JH, Nam KH, Oh GT, Yoon M. Effects of fenofibrate on high-fat diet-induced body weight gain and adiposity in female C57BL/6J mice. ***Metabolism***. 2004;53(10):1284-1289.

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63. Kim JH, Choi YK, Kwon HJ, Yang HK, Choi JH, Kim DY. Downregulation of gelsolin and retinoic acid receptor beta expression in gastric cancer tissues through histone deacetylase 1. ***J Gastroenterol Hepatol.*** 2004;19(2):218-224.
64. Choi JH, Jeong TS, Kim DY, Kim YM, Na HJ, Nam KH, Lee SB, Kim HC, Oh SR, Choi YK, Bok SH, Oh GT. Hematein inhibits atherosclerosis by inhibition of reactive oxygen generation and NF-kappaB-dependent inflammatory mediators in hyperlipidemic mice. ***J Cardiovasc Pharmacol***. 2003;42(2):287-295.
65. Choi JH, Choi JH, Kim DY, Yoon JH, Youn HY, Yi JB, Rhee HI, Ryu KH, Jung K, Han CK, Kwak WJ, Cho YB. Effects of SKI 306X, a new herbal agent, on proteoglycan degradation in cartilage explant culture and collagenase-induced rabbit osteoarthritis model. ***Osteoarthritis Cartilage***. 2002;10(6):471-478.
66. Lee JK, Park JS, Choi JH, Park BK, Lee BC, Hwang WS, Kim JH, Jean YH, Haritani M, Yoo HS, Kim DY. Encephalomyelitis associated with akabane virus infection in adult cows. ***Vet Pathol***. 2002;39(2):269-273.
67. Choi JH, Yoo HS, Park JY, Kim YK, Kim E, Kim DY. Morganelliasis pneumonia in a captive jaguar. ***J Wildl Dis***. 2002 Jan;38(1):199-201.
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69. Oh GT, Choi JH, Hong JJ, Kim DY, Lee SB, Kim JR, Lee CH, Hyun BH, Oh SR, Bok SH, Jeong TS. Dietary hematein ameliorates fatty streak lesions in the rabbit by the possible mechanism of reducing VCAM-1 and MCP-1 expression. ***Atherosclerosis***. 2001;159(1):17-26.
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71. Lee JK, Choi JH, Lee DW, Kim SJ, Fitzgerald SD, Lee YS, Kim DY. Marble spleen disease in pheasants in Korea. ***J Vet Med Sci***. 2001;63(6):699-701.
72. Hong JH, Choi JH, Oh SR, Lee HK, Park JH, Lee KY, Kim JJ, Jeong TS, Oh GT. Inhibition of cytokine-induced vascular cell adhesion molecule-1 expression; possible mechanism for anti-atherogenic effect of Agastache rugosa. ***FEBS Lett***. 2001;27;495(3):142-147.
73. Hong JJ, Jeong TS, Choi JH, Park JH, Lee KY, Seo YJ, Oh SR, Oh GT. Hematein inhibits tumor necrotic factor-alpha-induced vascular cell adhesion molecule-1 and NF-kappaB-dependent gene expression in human vascular endothelial cells. ***Biochem Biophys Res Commun***. 2001;281(5):1127-1133.
74. Han CW, Choi JH, Kim JM, Kim WY, Lee KY, Oh GT. Glucocorticoid-mediated repression of inflammatory cytokine production in fibroblast-like rheumatoid synoviocytes is independent of nuclear factor-kappaB activation induced by tumor necrosis factor alpha. ***Rheumatology***. 2001;40(3):267-273.
75. Hur K, Gazdar AF, Rathi A, Jang JJ, Choi JH, Kim DY. Overexpression of human telomerase RNA in Helicobacter pylori-infected human gastric mucosa. ***Jpn J Cancer Res***.(currnent "***Cancer Science***") 2000;91(11):1148-1153.
76. Yang SY, Ahn ST, Rhie JW, Lee KY, Choi JH, Lee BJ, Oh GT. Platelet supernatant promotes proliferation of auricular chondrocytes and formation of chondrocyte mass. ***Ann Plast Surg***. 2000;44(4):405-411.
77. Hur K, Bae JS, Choi JH, Kim JH, Kwon SW, Lee KW, Kim DY. Canine distemper virus infection in binturongs (Arctictis binturong). ***J Comp Pathol***. 1999;121(3):295-299.

3. Service and Outreach

- **Activities in international journal and domestic academic societies**
  a. Editorial Board – editorial board member of "Animal Cells and Systems (SCIE)" (2015 ~ present)
  b. Korean Association of Immunologists - Member of academic committee, planning committee (2013, 2015), Chair of Information Committee (2020)
  c. Korean Dendritic Cell Society – Chairperson in academic committee (2015 ~ 2016), academic committee member
  d. Vascular Science and Medicine Organization – Member of planning committee, financial committee, and membership, education committee (2014 ~ present)
  e. Korean Association of Laboratory Animal Science - Member of academic committee, and planning committee (2013 ~ 2017)

- **Campus Service in HYU**
  a. Operation committee member of HYU animal facility (2012 ~ present)
  b. Publicity committee member of College of Natural Sciences (2014 ~ 2016)
  c. Chair, Department of life science (2019 ~ present)

- **International Invited Lectures**
  a. 2011.08, The 9th Japan-Korea Joint Symposium on Vascular Biology "The intima of mouse aorta contains two distinct lineages of dendritic cells one of which resists atherosclerosis"
  b. 2012.10, DC2012, (Largest International Symposium on Dendritic cell), "Understanding of dendritic cell functions in atherosclerosis"
  c. 2016.05, Annual Meeting of Japanese Laboratory Animal Society, "Assessment of atherosclerosis and therapeutic potential of anti-atherogenic drug candidates"
  d. 2017.05, Immunology 2017, Washington DC, USA (Canadian Society Meeting at Annual meeting of American Association of Immunologists), "Dissecting the function of dendritic cells in atherosclerosis"
  e. 2019.06, The 13th TALAS International Conference, Bangkok, Thailand, "Transcriptomic Analysis of Aortic Dendritic Cells and Macrophages in Mouse Atherosclerosis Model"

4. Awards, Honors and Recognition

- Excellent Research Achievement Award 2017 at Hangyang University