


Curriculum Vitae

* Within 3 pages

	Name in Full	Chulhee Choi
	Country	Republic of Korea
	Affiliation	ILIAS Biologics, Inc
	Email	cchoi@iliasbio.com

Educational Background

1999 PhD Degree, Microbiology, Yonsei University College of Medicine, Seoul, Korea
 1995~1999 Residency, Neurology, Yonsei University Medical Center Severance Hospital
 1997 Masters Degree, Neurology, Yonsei University College of Medicine
 1991~1992 Internship, Internal Medicine, Severance Hospital
 1991 MD Degree, Yonsei University College of Medicine

Professional Career

2015~present CEO, Founder: ILIAS Biologics Incorporated
 2012~2022 Professor: Department of Bio and Brain Engineering, KAIST
 2009~2019 Chair, Optical Bioimaging Center, KAIST
 2006~2013 Chair, BK21 Center for Bio-Medical Information Technology, KAIST
 2005~2012 Associate Professor: Department of Bio and Brain Engineering, KAIST
 2002~2005 Assistant Professor: Division of Molecular Life Sciences, Ewha Womans University, Korea
 2001~2003 Research Instructor: Department of Cell Biology, UAB
 1999~2001 Postdoctoral Fellow: Department of Cell Biology, University of Alabama at Birmingham (UAB), Mentor: Etty N. Benveniste, PhD

Research Field

1. Exosome Engineering for Drug and Protein Delivery
2. Cell Signaling: Cell death and proliferation, Inflammation, Cancer micro environment and invasion
3. Cancer Biology: Glioblastoma and breast cancer target discovery
4. Neuroimmunology, Glial Cell Biology
5. Biomedical Imaging:; Near-infrared fluorescence imaging, Dynamic ICG perfusion imaging

1. Kim HH, Shim YR, Choi SE, Falana TE, Yoo JK, Ahn SH, Park M, Seo H, **Choi C***, Jeong WI*. Exosome-Based Delivery of Super-Repressor IκBα Alleviates Alcohol-Associated Liver Injury in Mice. *Pharmaceutics* 2023 Feb 14; 15(2): 636 [[PubMed: 36839957](#)]
2. Chae JS, Park H, Ahn SH, Han EC, Lee Y, Kim YJ, Ahn EJ, Oh HW, Lee HJ, **Choi C**, Choi YH*, Kim WJ*. The Effect of Super-Repressor IκB-Loaded Exosomes (Exo-srIκBs) in Chronic Post-Ischemia Pain (CPIP) Models. *Pharmaceutics* 2023 Feb 7; 15(2): 553 [[PubMed: 36839876](#)]
3. Choi H, Kim MY, Kim D-H, Yun H, Oh B-K, Kim SB, Song IH, Park HS, Kim SE, Park C*, **Choi C***. Quantitative Biodistribution and Pharmacokinetics Study of GMP-Grade Exosomes Labeled with ⁸⁹Zr Radioisotope in Mice and Rats. *Pharmaceutics*, 2022 May 24; 14(6): 1118 [[PubMed: 35745690](#)]
4. Ahn S-H, Ryu, S, Choi H, You S, Park J*, **Choi C***. Manufacturing therapeutic exosomes: from bench to industry. *Mol Cells*, 2022 May 31; 45(5): 284-290 [[PubMed: 35534190](#)]
5. Choi H, Choi K, Kim D-H, Oh B-K, Yim, H, Jo S, **Choi C***. Strategies for targeted delivery of exosomes to the brain: advantages and challenges. *Pharmaceutics*, 2022 Mar 18; 14(3): 672 [[PubMed: 35336049](#)]
6. **Choi C***, Therapeutic exosomes for various human diseases: Special issue of BMB Reports in 2022. *BMB Rep*, 2022 Jan; 55(1), 1-2 [[PubMed: 35074043](#)]
7. Choi H, Yim H, Park C, Ahn SH, Ahn Y, Lee A, Yang H, **Choi C***. Targeted Delivery of Exosomes Armed with Anti-Cancer Therapeutics. *Membranes (Basel)*, 2022 Jan 13; 12(1), 85 [[PubMed: 35054611](#)]
8. Choi H, Choi Y, Yim HW, Mizaaghasi A, Yoo J-K*, **Choi C***. Biodistribution of exosomes and engineering for active targeting of therapeutic exosomes. *Tissue Engineering and Regenerative Medicine*, 2021 Jul 14 [[PubMed: 34260047](#)]
9. Kim S, Lee SA, Yoon H, Kim MY, Yoo J-K, Ahn S-H, Park CH, Park J, Nam Y, Park JT, Han SH, Kang S-W, Kim NH, Kim HS, Han D, Yook JI*, **Choi C***, Yoo T-H*. Exosome-based delivery of super-repressor IκBα ameliorates kidney ischemia-reperfusion injury. *Kidney International*, 2021 May 27 [[PubMed: 34051264](#)]
10. Lee SA, **Choi C***, Yoo TH*. Extracellular vesicles in kidneys and their clinical potential in renal diseases. *Kidney Res Clin Pract* 2021 Jun; 40(2): 194-207 [[PubMed: 33866768](#)]
11. Kim J, Song Y, Park CH, **Choi C***. Platform technologies and human cell lines for the production of therapeutic exosomes. *Extracellular Vesicles and Circulating Nucleic Acids*, 2021 Mar 30, 2(1):3-17
12. Mizaaghasi A, Han Y, Ahn S-H, **Choi C***, Park J-H*. Biodistribution and Pharmacokinetics of Liposomes and Exosomes in a Mouse Model of Sepsis. *Pharmaceutics*, 2021 Mar 22; 13(3), 427 [[PubMed: 33809966](#)]
13. Sheller-Miller S, Radnaa E, Yoo J-K, Choi K, Kim Y, Kim Y, Richardson L, **Choi C**, Menon R*. Exosomal delivery of NF-κB inhibitor delays LPS-induced preterm birth and modulates fetal immune cell profile in mouse models *Sci Adv*, 2021 Jan 22; 7(4):eabd3865 [[PubMed: 33523942](#)]
14. Song Y, Kim Y, Ha S, Sheller-Miller S, Yoo J, **Choi C***, Park CH*. The emerging role of exosomes as novel therapeutics: biology, technologies, clinical applications and the next. *Am J Reprod Immunol*, 2021 Feb; 85(2):e13329 [[PubMed: 32846024](#)]
15. Choi H, Kim Y, Mizaaghasi A, Heo J, Kim YN, Shin JH, Kim S, Kim NH, Cho ES, Yook JI, Yoo T-H, Song E, Kim P, Shin E-C*, Chung K*, Choi K*, **Choi C**. Exosome-based delivery of super-repressor IκBα relieves sepsis-associated organ damage and mortality. *Sci Adv*, 2020 Apr 8; 6(15):eaaz6980 [[PubMed: 32285005](#)]
16. Sheller-Miller S, Choi K, **Choi C**, Menon R*. Cre-reporter mouse model to determine exosome communication and function during pregnancy. *Am J Obstet Gynecol*, 2019 Jun 14 [[PubMed: 31207235](#)]
17. Baek G, Choi H, Kim Y, Lee HC*, **Choi C***. Mesenchymal stem cell-derived extracellular vesicles as therapeutics and as a drug delivery platform. *Stem Cells Transl Med*, 2019 Sep; 8(9): 880-886 [[PubMed: 31045328](#)]
18. Yim N, **Choi C***. Extracellular vesicles as novel carriers for therapeutic molecules. *BMB Reports*, 2016 Nov; 49(11): 585-586 [[PubMed: 27733233](#)]