

CURRICULUM VITAE



Biography:

Prof/Dr **Cheorl-Ho Kim** has received his MS and PhD in The University of Tokyo during the period of 1985-1990. Currently, since 2006 he is professor and chair of Department of Biological Sciences, College of Science, Sungkyunkwan University and Samsung Advanced Institute of Health Science and Technology (SAIHST), Korea. He has successfully completed his Administrative responsibilities as Genome Program Head, Korea Research Institute of Bioscience and Biotechnology on 1990-1996 and Chairman, Department of Biochemistry and Molecular Biology, College of Oriental Medicine, Dongguk University during 1996-2006. His research has included the molecular biology of gene expression, ER-Golgi glycosyltransferases, oncogenesis, cancer metastasis and angiogenesis. He has authored 368 research articles/books with H-index 66. He is a member of International Scientific Advisory Board Member, International Symposium for Glycosyltransferases (GlycoT 2006), IUBMB symposium, Tsukuba and International Symposium for Glycosyltransferases (GlycoT 2008), Emory University, GA, USA, 2010 Tokai University GlycoResearch Center and 2015 Visiting Professor, The Ohio State University.

Research Interests: Cancer biology, Metastasis, Innate Immunology, vasion, Glycobiology, Angiogenesis, Leukemia, Gene expression and transcriptional regulation, Glycosyltransferase, Sialobiology, Tumor associated carbohydrate antigen, Carbohydrate Vaccines, Cell cycle, apoptosis, carcinogenesis, oncogenic transformation, growth factor-receptor interaction; cell differentiation; carbohydrate antigen; cell adhesion and angiogenesis; signal transduction. Metalloproteinase, Low molecular molecules, Macromolecules,

Name : **Cheorl-Ho KIM**

Birth Date and Place : May 12, 1962, Seoul (KOREA)

Current Professional Position:

Professor and Chairman

**Department of Biological Science, College of Science, Sungkyunkwan University,
Head of Molecular Glycobiology Unit**

**Co-positional Professor,
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Education

1984. Bachelor of Science, Chung-ang University, Seoul, Korea

1987. Master Degree in Laboratory of Biochemistry, Department of Agricultural Chemistry, The University of Tokyo, Japan.

1990. Ph.D. in Laboratory of Biochemistry, Department of Agricultural Chemistry, The University of Tokyo, Japan.

1. Positions

1990.4.-1996.2. Senior Researcher, KIST (presently Korea Research Institute of BioScience and BioTechnology, KRIBB), Daejon, Korea and Head of Genome Program, KRIBB.

1996.3. - 2006.2. Assistant Professor, Associate Professor, Professor, Chairman, Department of Biochemistry and Molecular Biology, DongGuk University, Korea

2006.3.-present. Professor and Chair, Molecular and Cellular Glycobiology Unit, Department of Biological Science, Sungkyunkwan University, Korea

2012.3.-present, Co-positional Professor, Samsung Advances Institute of Health Science and Technology (SAIHST), Seoul, Korea

2010-2010 Visiting Professor, Tokai University GlycoResearch Center, Japan

2015-2016 Visiting Professor, The Ohio State University Functional Genomics, USA.

2. Academic Activities

2005-2006 Organizer, Chairman of Bomun Conference Committee, KSBMB

2006-2007 President of YeoungNam District Branch of Korean Society of Biochemistry and Molecular Biology (KSBMB)

3. International Symposium Organization

Organization Committee for "1st to 6th Korea-Japan and Korea-Japan Collaborative Symposium on Glycobiology", 2001. 2. (Taejon), 2002.8 (Wako), 2003.3 (Busan), 2004.7 (Wako), 2004. 10 (Daejon), 2005.8.25(Wako)

International Scientific Advisory Board Member, International Symposium for Glycosyltransferase (GlycoT 2006), IUBMB symposium, Tsukuba, Japan 2006.6.24-27.

Organization Committee for "1st Korea-France Collaborative Symposium on Glycobiology", 2007. 11.31.

International Scientific Advisory Board Member, International Symposium for Glycosyltransferase (GlycoT 2008), Emory University, GA, USA, 2008.5.17-22.

Plenary lecture, The 38th International Annual Meeting in Pharmaceutical Sciences (IAMPS38). ERGolgi network glycosylation during cellular differentiation and anti-cancer and cardiovascular mechanism(s) of natural products. "Integration of pharmaceutical sciences advancing research and innovation" Faculty of Pharmaceutical Sciences, Chulalongkorn University, March 23-24, 2023. Pathumwan Princess Hotel, Bangkok, Thailand.

Invited Lectures

Many international lectures

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Editors

Associate Editor, *Frontiers in Pharmacology* (5.9) Editor, *Plos One* (3.5) Co-Editor, *Current Pharmaceutical Biotechnology* (2.9) Section Editor, *Current Medicinal Chemistry* (4.7) Associate Editor, *Evidenced Complementary and Alternative Medicine* (2.8) Editor member, *Journal of Cellular Biochemistry* (4.7), Wiley Editor member, *International Journal of Molecular Science* (6.2) Guest Associate Editor, *Frontiers in Immunology* (Section: Molecular Innate Immunity), Guest Associate Editor, *Cellular and Infection Microbiology* (Section: Molecular Bacterial Pathogenesis) (IF 8.78), Editor board, *International Immunopharmacology*, Elsevier (IF 5.6)

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Research Keywords: Molecular and Cell Biology, Glycobiology, Vascular Biology, Carcinogenesis, Cancer Biology, Metalloproteinase

4. Peer review paper

1. Lee JH, Lakshmana Perumal N, Kwon S, Kim HC, Ahn NH, Choi SB, Hwang E, Song H, Elmaleh DR, Kim A, Yang WS, Kim CH, Jang BC, Choi S, Yang SH. The derivatives of cromolyn ameliorate the abnormal misfolding of amyloid proteins and neuroinflammation in the neural cells. *Curr Med Chem*. 2023 Jan 23. doi: 10.2174/0929867330666230123101934.
2. Yang YF, Li CH, Cai HY, Lin BS, Kim CH, Chang YC. Application of Metabolic Reprogramming to Cancer Imaging and Diagnosis. *Int J Mol Sci*. 2022 Dec 13;23(24):15831. doi: 10.3390/ijms232415831.
3. Kim IS, Yang WS, Kim CH. Physiological Properties, Functions, and Trends in the Matrix Metalloproteinase Inhibitors in Inflammation-Mediated Human Diseases. *Curr Med Chem*. 2022 Oct 21. 30(18), 2075-2112. doi:

- 10.2174/0929867329666220823112731.
4. An SY, Kim KS, Cho JH, Kim HD, Kim CH, Lee YC. Curcumin-mediated transcriptional regulation of human N-acetylgalactosamine- α 2,6-sialyltransferase which synthesizes sialyl-Tn antigen in HCT116 human colon cancer cells. *Front Mol Biosci.* 2022 Sep 12;9:985648. doi: 10.3389/fmolb.2022.985648.
 5. Kim CH, Echeverria Moran V, Hohmann J, Echeverria J, Yen HR, Lu A, Heinrich M. Editorial: Insights in ethnopharmacology: 2021. *Front Pharmacol.* 2022 Sep 20;13:997577. doi: 10.3389/fphar.2022.997577. eCollection 2022.
 6. Fukushi A, Kim HD, Chang YC, Kim CH. Revisited Metabolic Control and Reprogramming Cancers by Means of the Warburg Effect in Tumor Cells. *Int J Mol Sci.* 2022 Sep 2;23(17):10037. doi: 10.3390/ijms231710037.
 7. Park JY, Kim CH, Cho SH. Glycan-Adhering Lectins and Experimental Evaluation of a Lectin FimH Inhibitor in Enterohemorrhagic Escherichia coli (EHEC) O157:H7 Strain EDL933. *Int J Mol Sci.* 2022 Sep 1;23(17):9931. doi: 10.3390/ijms23179931.
 8. Chang YC, Kim CH. Molecular Research of Glycolysis. *Int J Mol Sci.* 2022 May 2;23(9):5052. doi: 10.3390/ijms23095052.
 9. Lee JK, Kim I, Jeon EK, Ha JH, Hwang CW, Kim JC, Yang WS, Choi H, Kim HD, Kim CH. Bacterially Converted Oat Active Ingredients Enhances Antioxidative and Anti-UVB Photoaging Activities. *Evid Based Complement Alternat Med.* 2022 May 28;2022:1901564. doi: 10.1155/2022/1901564.
 10. Abekura F, Park J, Lim H, Kim HD, Choi H, Lee MJ, Kim CH. Mycobacterium tuberculosis glycolipoprotein LprG inhibits inflammation through NF- κ B signaling of ERK1/2 and JNK in LPS-induced murine macrophage cells. *J Cell Biochem.* 2022 Apr;123(4):772-781. doi: 10.1002/jcb.30220.
 11. Cho SH, Park JY, Kim CH. Systemic Lectin-Glycan Interaction of Pathogenic Enteric Bacteria in the Gastrointestinal Tract. *Int J Mol Sci.* 2022 Jan 27;23(3):1451. doi: 10.3390/ijms23031451.
 12. Choi MJ, Kim YR, Park NG, Kim CH, Oh YD, Lim HK, Kim JM. Characterization of a C-Type Lectin Domain-Containing Protein with Antibacterial Activity from Pacific Abalone (*Haliotis discus hannai*) *Int J Mol Sci.* 2022 Jan 9;23(2):698. doi: 10.3390/ijms23020698.
 13. Kim IS, Yang WS, Kim CH. Beneficial Effects of Soybean-Derived Bioactive Peptides. *Int J Mol Sci.* 2021 Aug 9;22(16):8570. doi: 10.3390/ijms22168570.
 14. Kim CH. Anti-SARS-CoV-2 Natural Products as Potentially Therapeutic Agents. *Front Pharmacol.* 2021 May 27;12:590509. doi: 10.3389/fphar.2021.590509. eCollection 2021.
 15. Kim IS, Hwang CW, Yang WS, Kim CH. Current Perspectives on the Physiological Activities of Fermented Soybean-Derived Cheonggukjang. *Int J Mol Sci.* 2021 May 27;22(11):5746. doi: 10.3390/ijms22115746.
 16. Cho SH, Kim JB, Kim CH, Bak YS. Evaluation of Microbiological Contamination of Dummies Used in Cardiopulmonary Resuscitation in Korea. *Curr Pharm Biotechnol.* 2021;22(2):281-287. doi: 10.2174/1389201021666200807105136.

17. Kim IS, Hwang CW, Yang WS, Kim CH. 2021. Multiple Antioxidative and Bioactive Molecules of Oats (*Avena sativa* L.) in Human Health. *Antioxidants*, 10 (9), 1454, 1-20. <https://doi.org/10.3390/antiox10091454>.
18. Park JY, Choi HJ, Park T, Lee MJ, Lim HS, Yang WS, Hwang CW, Park D, Kim CH. 2021. Inhibitory Effect of Avenanthramides (Avn) on Tyrosinase Activity and Melanogenesis in α -MSH-Activated SK-MEL-2 Cells: In Vitro and In Silico Analysis. *Int J Mol Sci*. 2021 Jul 22;22(15):7814.
19. Kim IS, Kim CH, Yang WS. Physiologically Active Molecules and Functional Properties of Soybeans in Human Health-A Current Perspective. *Int J Mol Sci*. 2021 Apr 14;22(8):4054.
20. Kim C.H. 2021. Anti-SARS-CoV-2 Natural Products as Potentially Therapeutic Agents. *Front Pharmacol*. 2021 May 27;12:590509. doi: 10.3389/fphar.2021.590509.
21. Kim IS, Kim CH, Yang WS. 2021. Physiologically Active Molecules and Functional Properties of Soybeans in Human Health-A Current Perspective. *Int J Mol Sci*. 2021 Apr 14;22(8):4054. doi: 10.3390/ijms22084054.
22. Kim IS, Hwang CW, Yang WS, Kim CH. 2021. Current Perspectives on the Physiological Activities of Fermented Soybean-Derived Cheonggukjang. *Int J Mol Sci*. 2021 May 27;22(11):5746.
23. Park J, Choi H, Abekura F, Lim HS, Im JH, Yang WS, Hwang CW, Chang YC, Lee YC, Park NG, Kim CH. 2021. Avenanthramide C Suppresses Matrix Metalloproteinase-9 Expression and Migration Through the MAPK/NF- κ B Signaling Pathway in TNF- α -Activated HASMC Cells. *Front Pharmacol*. 2021 Mar 25;12:621854.
24. Lim H, Park JY, Abekura F, Choi H, Kim HD, Magae J, Chang YC, Lee YC, Kim CH. 2021. 4-O-methylascochlorin attenuates inflammatory responses induced by lipopolysaccharide in RAW 264.7 macrophages. *Int Immunopharmacol*. 2021 Jan;90:107184.
25. An SY, Lee M, Yoon HK, Abekura F, Kim KS, Kim DH, Kim HJ, Lee K, Kim CH, Lee YC. 2020. Regulation of human β -galactoside α 2,6-sialyltransferase (hST6Gal I) gene expression during differentiation of human osteoblastic MG-63 cells. *Glycoconj J*. 2020 Dec;37(6):681-690. Doi: 10.1007/s10719-020-09959-3. Epub 2020 Oct 27.
26. Cho SH, Bak YS, Kim CH, Kim JB. 2000. Evaluation of Microbiological Contamination of Dummies used in Cardio-pulmonary Resuscitation in Korea. *Curr Pharm Biotechnol*. 2020 Aug 6. Doi: 10.2174/1389201021666200807105136.
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- Mol Sci. 2020 Jun 26;21(12):4549. Doi: 10.3390/ijms21124549. NRF
29. Lee KM, Cho SH, Kim CH, Kim JH, Kim SS. E-Membranome: a Database for Genome-Wide Analysis of Escherichia coli Outer Membrane Proteins. *Curr Pharm Biotechnol.* 2020 Jun 9. Doi: 10.2174/1389201021666200610105549.
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 33. Ha SH, Kwak CH, Park JY, Abekura F, Lee YC, Kim JS, Chung TW, Kim CH. 3'-sialyllactose targets cell surface protein, SIGLEC-3, and induces megakaryocyte differentiation and apoptosis by lipid raft-dependent endocytosis. *Glycoconj J.* 2020 Apr;37(2):187-200. Doi: 10.1007/s10719-019-09902-1. Epub 2020 Jan 4. NRF
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 39. Park J, Kim HD, Lee SH, Kwak CH, Chang YC, Lee YC, Chung TW, Magae J,

- Kim CH. Ascochlorin induces caspase-independent necroptosis in LPS-stimulated RAW 264.7 macrophages. *J Ethnopharmacol.* 2019 Jul 15;239:111898. Doi: 10.1016/j.jep.2019.111898. Epub 2019 Apr 24.
40. Park J, Ha SH, Abekura F, Lim H, Magae J, Ha KT, Chung TW, Chang YC, Lee YC, Chung E, Ku J, Kim CH. 4-O-Carboxymethylascochlorin Inhibits Expression Levels of on Inflammation-Related Cytokines and Matrix Metalloproteinase-9 Through NF- κ B/MAPK/TLR4 Signaling Pathway in LPS-Activated RAW264.7 Cells. *Front Pharmacol.* 2019 Mar 27;10:304. Doi: 10.3389/fphar.2019.00304. eCollection 2019.
41. Yang WS, Kim JC, Lee JY, Kim CH, Hwang CW. Antihyperlipidemic and Antioxidative Potentials of Onion (*Allium cepa* L.) Extract Fermented with a Novel *Lactobacillus casei* HD-010. *Evid Based Complement Alternat Med.* 2019 Mar 3;2019:3269047. Doi: 10.1155/2019/3269047. eCollection 2019.
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43. Kim JC, Jeon JY, Yang WS, Kim CH, Eom DW. Combined Amelioration of Ginsenoside (Rg1, Rb1, and Rg3)-enriched Korean Red Ginseng and Probiotic *Lactobacillus* on Non-alcoholic Fatty Liver Disease. *Curr Pharm Biotechnol.* 2019;20(3):222-231. Doi: 10.2174/1389201020666190311143554.
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45. Abekura F, Park J, Kwak CH, Ha SH, Cho SH, Chang YC, Ha KT, Chang HW, Lee YC, Chung TW, Kim CH. 2019. Esculentoside B inhibits inflammatory response through JNK and downstream NF- κ B signaling pathway in LPS-triggered murine macrophage RAW 264.7 cells. *Int Immunopharmacol.* 2019 Mar;68:156-163. Doi: 10.1016/j.intimp.2019.01.003. Epub 2019 Jan 9.
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48. Lee M, Choi H, Kim KS, Kim DH, Kim CH, Lee YC. 2018. Curcumin Downregulates Human GM3 Synthase (hST3Gal V) Gene Expression with Autophagy Induction in Human Colon Carcinoma HCT116 Cells. *Evid Based*

- Complement Alternat Med. 2018 Nov 11;2018:6746412. Doi: 10.1155/2018/6746412. eCollection 2018.
49. Seok JY, Jeong YJ, Hwang SK, Kim CH, Magae J, Chang YC. 2018. Upregulation of AMPK by 4-O-methylascochlorin promotes autophagy via the HIF-1 α expression. *J Cell Mol Med.* 2018 Dec;22(12):6345-6356. Doi: 10.1111/jcmm.13933. Epub 2018 Oct 19.
 50. Park J, Ha SH, Abekura F, Lim H, Chang YC, Lee MJ, Lee M, Lee YC, Kim CH. 2018. 4-O-carboxymethylascochlorin protected against microglial-mediated neurotoxicity in SH-SY5Y and BV2 cocultured cells from LPS-induced neuroinflammation and death by inhibiting MAPK, NF- κ B, and Akt pathways. *J Cell Biochem.* 2018 Oct 15. Doi: 10.1002/jcb.27464. [Epub ahead of print]
 51. Lee M, Kim KS, Fukushi A, Kim DH, Kim CH, Lee YC. 2018. Transcriptional Activation of Human GD3 Synthase (hST8Sia I) Gene in Curcumin-Induced Autophagy in A549 Human Lung Carcinoma Cells. *Int J Mol Sci.* 2018 Jul 2;19(7). Pii: E1943. Doi: 10.3390/ijms19071943.
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58. Chung TW, Kim EY, Kim SJ, Choi HJ, Jang SB, Kim KJ, Ha SH, Abekura F, Kwak CH, Kim CH, Ha KT. Sialyllactose suppresses angiogenesis by inhibiting VEGFR-2 activation, and tumor progression. *Oncotarget*. 2017 Mar 14;8(35):58152-58162. Doi: 10.18632/oncotarget.16192. eCollection 2017 Aug 29.
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Books

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