

## KIM Cheorl-Ho

Professor, Department of Biological Sciences



- Office 32102, Science Building 2, Sungkyunkwan University (SKKU) Natural Sciences Campus, 2066 Seobu-ro, Jangan-gu, Suwon, Gyeonggi-do, Republic of Korea
- Phone +82-31-290-7002
- E-mail chkimbio@skku.edu
- Website <http://www.glycobio.org>
- Social Media

**Key Words** Glycobiology, Glycolipids, Sialic acid, Sphingolipid, Cell Differentiation, Cancer, Atherosclerosis

**Research Area** Research interests are on glycomics and glycobiology. Academic findings: Hepatic B Viral hepatocarcinoma and PTEN (Cancer Res 2003), asialo-1 acid glycoprotein in liver cirrhosis and carcinoma (Hepatol Res, 2003), GlcNAc:βMan1,4GlcNAc-III in hepatitis (Glycoconj J, 2003), plasma MMP-9/2 and α-fetoproteins in HBV chronic hepatitis (J. Gastroent Hepatol 2004), HBV metastatic potential (FASEB J. 2004), Hepatic V and N-acetylglucosaminyltransferase GnT-III-Apolipoprotein B (JBC. 2004), Disialo GD3 in VSMC responses (JBC. 2004), therapeutic hepatocarcinoma cells (FASEB J. 2004), Transglutaminase 2 signaling in leukemia (FEBS Lett. 2004), bisecting N-GlcNAc-III in HBV (J Gastroent Hepatol, 2004), Monosialyl GM3 in leukemic differentiation (Glycobiology 2005), MMP-9 in In Vitro Fertilization (British J Obstetrics and Gynecology 2005), disialo GD3 Fas-induced T cells (Glycobiology 2006), GM3 in PTEN-mediated progression (Glycobiology 2006), ROS in sialic GD3-cell function (FASEB J 2006), AP-2a in GM3-PTEN (Glycobiology 2008), sialidase in leukemia (Biochim Biophys Acta 2008), GM3-VEGFR-2 interaction (Glycobiology 2009), GD3 in breast cancer cells (Biological Chemistry 2009), pig CMAH and N-glycolylneuraminic acid (Biochem J 2010), pST6GalNAc IV for Neu5Aca2-3Galb1-3GalNAc (Glycoconjugate J 2011), GM3 in TGF-β1-induced EMT (Biochem J. 2013), VEGFR-2 in neovascularization (J Mol Medicine 2013), monosialyl GMs (Plos One 2014) and TGF-receptor interaction (Int. J. of Biochem. Cell Biol. 2014), Sialyl Le A/X preference of HBx (Mol Cancer 2014, J Cell Biochem 2015). Transcriptional adaptation of CMP-N-acetylneuraminic acid hydroxylase gene for NeuGc expression (Glycoconj ugate J, 2016).

**Education**

• 1990	PhD	University of Tokyo, Tokyo, Japan
• 1987	MSc	University of Tokyo, Tokyo, Japan
• 1984	BSc	Chung-Ang University, Seoul, Korea

**Experience**

• 2015 July – 2015 Sep	Visiting Scholar, The Ohio State University, USA (KC Lee)
• 2010 April – 2010 August	Visiting Scholar, Glycoscience, Tokai University, Japan (A. Suzuki)
• 2006 March - Present	Professor, Dept. Biological Sciences, Sungkyunkwan University
• 1996 March – 2006 Feb	Assistant, Associate, Full Professor and Chairman, College of Oriental Medicine, Dongguk University, Gyeongju
• 1990 May – 1996 Feb	Senior Researcher and Genome Program Head, Genetic Engineering Center, Korea Institute of Science and Technology, KIST (Later, KRIBB)
• 1987 April– 1989 Sep	Lecturer, Tokyo College of Pharmaco and Medico-Technology, Tokyo, Japan

**Position**

• 2010 Jan – Present	The Peer Journal, Editor (SCIE, 2.3)
• 2010 March – Present	eCAM, editor (SCIE, 2.8)
• 2012 Jan – Present	Current Pharm. Biotechnology, Editor (SCIE. 2.1)
• 2016-June-Present	Int. J. Molecular Science, Editor (SCIE, 3.5)

**Publication**

- Exogenous and Endogeneous Disialosyl Ganglioside GD1b Induces Apoptosis of MCF-7 Human Breast Cancer Cells. Int J Mol Sci. 2016 Apr 30;17(5). pii: E652.
- Housekeeping promoter 5'pcmah-2 of pig CMP-N-acetylneuraminic acid hydroxylase gene for NeuGc expression. Glycoconjugate J. 2016;May 17.
- Hepatitis B virus X protein specially regulates the sialyl leA synthesis among glycosylation events for metastasis. Molecular Cancer. 2014;13:222-229.
- Induction of Apoptosis and Antitumor Activity of Eel Skin Mucus, Containing Lactose-Binding Molecules, on Human Leukemic K562 Cells. Mar Drugs. 2015 Jun 19;13(6):3936-49.