

CURRICULUM VITAE

KI HYUN KIM

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2018–present	Sungkyunkwan University (Associate Professor)	Suwon, Korea
2014–2017	Sungkyunkwan University (Assistant Professor)	Suwon, Korea

EDUCATION

2007–2010	Sungkyunkwan University	Suwon, Korea
■	Completed a Ph. D in natural products chemistry	
2005–2006	Sungkyunkwan University	Suwon, Korea
■	Earned a M.S. in natural products chemistry	
2001-2004	Sungkyunkwan University	Suwon, Korea
■	Earned a B.S. in pharmacy	
■	Acquired Pharmacist license	

RESEARCH EXPERIENCE

2013	Harvard University (Harvard Medical School)	MA, USA
	<i>Postdoctoral Research Fellow</i> (Prof. Jon Clardy)	
■	Natural product chemistry	
2012	Harvard University	MA, USA
	<i>Postdoctoral Research Fellow</i> (Prof. Yoshito Kishi)	
■	Organic chemistry	
2011	Pharmacy research institute (Sungkyunkwan University)	Suwon, Korea
	<i>Postdoctoral researcher</i> (Prof. Kang Ro Lee)	
■	Currently studying the isolation and structural elucidation of natural products from Korean medicinal plants and Korean poisonous mushrooms	
2007–2010	Sungkyunkwan University	Suwon, Korea
	<i>Graduate student</i> (Prof. Kang Ro Lee)	
■	Studied the isolation and structural elucidation of natural products from Korean medicinal plants and Korean poisonous mushrooms	
■	Studied analysis of main constituents from Korean medicinal herbs	
2005–2006	Sungkyunkwan University	Suwon, Korea
	<i>Research assistant and Graduate student</i> (Prof. Kang Ro Lee)	
■	Studied the isolation and structural elucidation of natural products from Korean medicinal plants	

TEACHING EXPERIENCE

- 2011 Sungkyunkwan University Suwon, Korea
Part-time Lecturer
- Taught advanced natural products chemistry and structural elucidation of natural products to graduate students
- 2007–2010 Sungkyunkwan University Suwon, Korea
Teaching assistant
- Taught advanced natural products chemistry and general chemistry to graduate students in laboratory

PUBLICATIONS

339. Park, Dogun;† Hong, Joo-Hyun;† Choi, Daekyu; Kim, Donghyeun; Jung, Won Hee; Yoon, Sam S.;* Kim, Ki Hyun.* An, Seongpil.* Biocompatible and Mechanically-reinforced Tribopositive Nanofiber Mat for Wearable and Antifungal Human Kinetic Energy Harvester based on Wood-derived Natural Product. *Nano Energy* **2022**, in press.
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337. Yoon, Sun-Young;† Kim, Jinsoo;† Lee, Bum Soo;† Baek, Su Cheol; Chung, Sang J.;* Kim, Ki Hyun.* Terminalin from African Mango (*Irvingia gabonensis*) Stimulates Glucose Uptake through Inhibition of Protein Tyrosine Phosphatases. *Biomolecules* **2022**, *12*, 321.
336. Yu, Jae Sik; Jeong, Se Yun; Li, Chunshun; Oh, Taehoon; Kwon, Mincheol; Ahn, Jong Seog; Ko, Sung-Kyun; Ko, Yoon-Joo; Cao, Shugeng; Kim, Ki Hyun.* New phenalenone derivatives from the Hawaiian volcanic soil-associated fungus *Penicillium herquei* FT729 and their inhibitory effects on indoleamine 2,3-dioxygenase 1 (IDO1). *Arch. Pharm. Res.* **2022**, in press.
335. Park, Moon Nyeo;‡ Jeon, Hee Won;‡ Rahman, Md. Ataur; Park, Se Sun; Jeong, Se Yun; Kim, Ki Hyun; Kim, Sung-Hoon; Kim, Woojin; Kim, Bonglee.* *Daemonorops draco* Blume induces apoptosis against acute myeloid leukemia cells via regulation of miR-216b/c-Jun signal pathway. *Front. Oncol.* **2022**, in press.
334. Lee, Seulah; Jeong, Se Yun; Nguyen, Dieu Linh; So, Jae Eun; Kim, Ki Hyun; Kim, Ji Hee; Han, Se Jong; Suh, Sung-Suk; Lee, Jun Hyuck; Youn, Ui Joung.* Stereocalpin B, a New Cyclic Depsipeptide from the Antarctic Lichen *Ramalina terebrata*. *Metabolites* **2022**, *12*, 141.
333. Lee, Seoung Rak; Lee, Bum Soo; Yu, Jae Sik; Kang, Heesun; Yoo, Min Jeong; Yi, Sang Ah; Han, Jeung-Whan; Kim, Sil; Kim, Jung Kyu; Kim, Jin-Chul; Kim, Ki Hyun.* Identification of anti-adipogenic withanolides from the roots of Indian ginseng (*Withania somnifera*). *J. Ginseng Res.* **2022**, in press.

332. Lee, Seulah;† Yu, Jae Sik;† Lee, Seoung Rak;† Kim, Ki Hyun.* Non-peptide secondary metabolites from poisonous mushrooms: overview of chemistry, bioactivity, and biosynthesis. *Nat. Prod. Rep.* **2022**, *in press*.
331. Min, Hyeongho;¹ Baik, Sangyul;¹ Lee, Jihyun; Kim, Da Wan; Song, Jin Ho; Kim, Ki Hyun; Kim, Min-Seok;* Pang, Changhyun.* Enhanced biocompatibility and multidirectional wet adhesion of insect-like synergistic wrinkled pillars with microcavities. *Chem. Eng. J.* **2022**, *429*, 132467.
330. Lee, Seulah; Alishir, Akida; Kim, Tae Wan; Kang, Dong-Min; Ryoo, Rhim; Pang, Changhyun; Ahn, Mi-Jeong; Kim, Ki Hyun.* First Chemical Investigation of Korean Wild Mushroom, *Amanita hemibapha* subsp. *javonica* and the Identification of Anti-*Helicobacter pylori* Compounds. *Pharmaceuticals* **2022**, *15*, 152.
329. Lee, Seulah;† Kim, Tae Wan;† Lee, Yong Hoon; Kang, Dong-Min; Ryoo, Rhim; Ko, Yoon-Joo; Ahn, Mi-Jeong; Kim, Ki Hyun.* Two New Fatty Acid Derivatives, Omphalotols A and B and Anti-*Helicobacter pylori* Fatty Acid Derivatives from Poisonous Mushroom *Omphalotus japonicus*. *Pharmaceuticals* **2022**, *15*, 139.
328. Huong, Pham; Doan, Thi Phuong; Kim, Hyun Woo; Kim, Tae Wan; Park, So-Yeon; Kim, Hangun; Lee, Mina; Kim, Ki Hyun; Oh, Won Keun; Lim, Young Woon; Kang, Kyo Bin.* Cyclohumulanoid Sesquiterpenes Induced by the Non-competitive Co-culture of Two Basidiomycetous Fungi *Phellinus orientoasiaticus* and *Schizophora flavipora*. *J. Nat. Prod.* **2022**, *in press*.
327. Lee, Dahae;† Ko, Yuri;† Pang, Changhyun; Ko, Yoon-Joo; Choi, You-Kyoung; Kim, Ki Hyun.* Kang, Ki Sung.* Estrogenic Activity of Mycoestrogen (3 β ,5 α ,22E)-Ergost-22-en-3-ol via Estrogen Receptor α -Dependent Signaling Pathways in MCF-7 Cells. *Molecules* **2022**, *27*, 36.
326. Jo, Beom-Geun; Park, Young-Hun; Kim, Ki Hyun; Kim, Su-Nam;* Yang, Min Hye.* Simultaneous Determination of Four Marker Compounds in *Lobelia chinensis* Lour. Extract by HPLC-PDA. *Appl. Sci.* **2021**, *11*, 12080.
325. Alishir, Akida; Kim, Ki Hyun.* Antioxidant Phenylpropanoid Glycosides from *Ginkgo biloba* Fruit and Identification of a New Phenylpropanoid Glycoside, Ginkgopanoside. *Plants* **2021**, *10*, 2702.
324. Paje, Leo Adrienne; Lee, Hak-Dong; Choi, Jungwon; Kim, Juree; Kim, Ki Hyun; Yu, A Ram; Bae, Min-Jung; Lee, Sanghyun.* Phytochemical constituents from the aerial parts of *Salvia plebeian*. *J. Appl. Biol. Chem.* **2021**, *64*, 391–397.
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322. Yu, Jae Sik;^a Kim, Ji-Hoon;^a Rashan, Luay; Kim, Inseo; Lee, Wonsik;* Kim, Ki Hyun.* Potential Antimicrobial Activity of Galloyl-flavonoid Glycosides from *Woodfordia unijflora* against Methicillin-resistant *Staphylococcus aureus*. *Front. Microbiol.* **2021**, *12*, 784504.
321. Kang, Heesun;† Yoo, Min Jeong;† Yi, Sang Ah; Kim, Tae Wan; Ha, Ji Won; Na, Myung Woo; Park, Kun Hee; Kim, Seon-Hee; Han, Jeung-Whan; Jang, Tae Su; Kim, Ki Hyun.* Phytochemical

Constituents Identified from the Aerial Parts of *Lespedeza cuneata* and their Effects on Lipid Metabolism during Adipocyte Maturation. *Separations* **2021**, *8*, 203.

320. Lee, Yong Hoon;† Hong, Joo-Hyun;† Park, Kun Hee; Kim, Seon-Hee; Kim, Jin-Chul; Kim, Do Hoon; Park, Yu Hwa; Lee, Kye Wan; Kim, Jung Kyu;* Kim, Ki Hyun* Phytochemical Investigation of Bioactive Compounds from White Kidney Beans (Fruits of *Phaseolus multiflorus* var. *albus*): Identification of Denatonium with Osteogenesis-Inducing Effect. *Plants* **2021**, *10*, 2205.

319. Yun, Chae-Eun;† So, Hyun-Kyung;† Vuong, Tuan Anh ; Na, Myung Woo; Anh, Subin; Lee, Hyo-Gun; Kim, Ki Hyun; Kang, Jong-Sun; Bae, Gyu-Un;* Lee, Sang-Jin.* Aronia upregulates myogenic differentiation and augments muscle mass and function through muscle metabolism. *Front. Nutr.* **2021**, *8*, 753643.

318. Lee, Bum Soo;† Yoo, Min Jeong;† Kang, Heesun;† Lee, Seoung Rak; Kim, Sil; Yu, Jae Sik; Kim, Jin-Chul; Jang, Tae Su; Pang, Changhyun;* Kim, Ki Hyun* Withasomniferol D, a New Anti-adipogenic Withanolide from the Roots of Ashwagandha (*Withania somnifera*). *Pharmaceuticals* **2021**, *14*, 1017.

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316. Kwon, Haeun;[#] Nguyen, Quynh Nhu;[#] Na, Myung Woo; Kim, Ki Hyun; Guo, Yuanqiang; Yim, Joung Han; Shim, Sang Hee; Kim, Jae-Jin; Kang, Ki Sung;* Lee, Dongho.* A new *a*-pyrone from *Arthrinium pseudosinense* culture medium and its estrogenic activity in MCF-7 cells. *J. Antibiot.* **2021**, *74*, 893–897.

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311. Ghaffari, Tayyeb; Asnaashari, Solmaz; Irannejad, Ebrahim; Delazar, Abbas; Farajnia, Safar; Hong, Joo-Hyun; Pang, Changhyun; Hamishehkar, Hamed;* Kim, Ki Hyun* Comparative Evaluation of Apoptosis Induction Using Needles, Bark, and Pollen Extracts and Essential Oils of *Pinus eldarica* in Lung Cancer Cells. *Appl. Sci.* **2021**, *11*, 5763.

310. Ha, Sang Keun;† Kang, Min Cheol;† Lee, Seulah;† Darlami, Om; Shin, Dongyun; Choi, Inwook;* Kim, Ki Hyun.* Kim, Sun Yeou.* Generation of Stilbene Glycoside with Promising Cell Rejuvenation Activity through Biotransformation by the Entomopathogenic Fungus *Beauveria bassiana*. *Biomedicines* **2021**, *9*, 555.
309. Lee, Dahae;¹ Kim, Ki Hyun;¹ Jang, Tae Su;* Kang, Ki Sung.* Identification of bioactive compounds from mulberry enhancing glucose-stimulated insulin secretion. *Bioorg. Med. Chem. Lett.* **2021**, *43*, 128096.
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305. Lim, Sung Ho;† Yu, Jae Sik;† Lee, Ho Seon; Choi, Chang-Ik;* Kim, Ki Hyun.* Antidiabetic Flavonoids from Fruits of *Morus alba* Promoting Insulin-stimulated Glucose Uptake via Akt and AMP-activated Protein Kinase Activation in 3T3-L1 Adipocytes. *Pharmaceutics* **2021**, *13*, 526.
304. Lee, Dahae; Alishir, Akida; Jang, Tae Su;* Kim, Ki Hyun.* Identification of Bioactive Natural Product from the Stems and Stem Barks of *Cornus walteri*: Benzyl Salicylate Shows Potential Anti-inflammatory Activity in Lipopolysaccharide-stimulated RAW 264.7 Macrophages. *Pharmaceutics* **2021**, *13*, 443.
303. Park, Yong Joo;¹ Jeon, Mi Seon;¹ Lee, Seulah;¹ Kim, Jung Kyu; Jang, Tae Su; Chung, Kyu Hyuck; Kim, Ki Hyun.* Anti-fibrotic effects of brevilin A in hepatic fibrosis via inhibiting the STAT3 signaling pathway. *Bioorg. Med. Chem. Lett.* **2021**, *41*, 127989.
302. Kim, Ga-Ram; Kim, Eun-Nam; Park, Kyoung Jin; Kim, Ki Hyun.* Jeong, Gil-Saeng.* Inhibitory Effect of LGS and ODE Isolated from the twigs of *Syringa oblata* var. *dilatata* on RANKL Induced Osteoclastogenesis in Macrophages Cells. *Molecules* **2021**, *26*, 1779.
301. Kim, Eui Jin;† Seo, Ji Bin;† Yu, Jae Sik;† Lee, Seoyoung; Lim, Jae Sung; Choi, Jeong Uk; Lee, Chang-Min; Rahan, Luay; Kim, Ki Hyun.* Cho, Young-Chang.* Anti-inflammatory Effects of a Polyphenol, Catechin-7,4'-O-digallate, from *Woodfordia unijflora* by Regulating NF-κB Signaling Pathway in Mouse Macrophages. *Pharmaceutics* **2021**, *13*, 408.
300. Yoon, Sun-Young; Yu, Jae Sik; Hwang, Ji Young; So, Hae Min; Seo, Seung Oh; Kim, Jung Kyu; Jang, Tae Su; Chung, Sang J.;* Kim, Ki Hyun.* Phloridzin Acts as an Inhibitor of Protein-tyrosine Phosphatase MEG2 Relevant to Insulin Resistance. *Molecules* **2021**, *26*, 1612.
299. Lee, Dahae; Kim, Ki Hyun; Jang, Taesu;* Kang, Ki Sung.* (-)-Leucophyllone, a Tirucallane Triterpenoid from *Cornus walteri* Enhances Insulin Secretion in INS-1 Cells. *Plants* **2021**, *10*, 431.

298. Schorn, Michelle A.; Verhoeven, Stefan; Ridder, Lars; [...]; [Kim, Ki Hyun](#); [...]; van der Hoof, Justin J. J. A community resource for paired genomic and metabolomic data mining. *Nat. Chem. Biol.* **2021**, *17*, 363–368.
297. Yu, Jae Sik;† Lim, Sung Ho;† Lee, Seoung Rak; Choi, Chang-Ik;* [Kim, Ki Hyun](#).* Antioxidant and anti-inflammatory effects of white mulberry (*Morus alba* L.) fruits on lipopolysaccharide-stimulated RAW 264.7 macrophages. *Molecules* **2021**, *26*, 920.
296. So, Hae Min;¹ Lee, Seul;¹ Baek, Kwan-Hyuck; Roh, Hyun-Soo; Kim, Sil; Jo, Mun Seok; Baek, Su Cheol; Seok, Soonja; Ryoo, Rhim; [Kim, Ki Hyun](#).* Bioactivity-based analysis and chemical characterization of cytotoxic compounds from a poisonous mushroom, *Amanita spissacea*, in human lung cancer cells *in vitro*. *Nat. Prod. Res.* **2021**, *35*, 649–654.
295. Pham, Huong; Lee, Kwang Ho; Jeong, Eunah; Woo, Sunmin; Yu, Jinsuh; Kim, Woo-Young; Lim, Young Woon; [Kim, Ki Hyun](#).* Kang, Kyo Bin.* Species Prioritization Based on Spectral Dissimilarity: A Case Study of Polyporoid Fungal Species. *J. Nat. Prod.* **2021**, *84*, 298–309.
294. Baik, Sangyul;* Hwang, Gui Won; Jang, Siyeon; Jeong, Suyeon; [Kim, Ki Hyun](#); Yang, Tae-Heon; Pang, Changhyun.* Bioinspired Microsphere-Embedded Adhesive Architectures for Electrothermally Actuating Transport Device of Dry/Wet Pliable Surfaces. *ACS Appl. Mater. Interfaces* **2021**, *13*, 6930–6940.
293. Alishir, Akida; Yu, Jae Sik; Park, Minji; Kim, Jin-Chul; Pang, Changhyun; Kim, Jung Kyu; Jang, Tae Su; Jung, Won Hee; [Kim, Ki Hyun](#).* Ulmusakidian, a new coumarin glycoside and antifungal phenolic compounds from the root bark of *Ulmus davidiana* var. *japonica*. *Bioorg. Med. Chem. Lett.* **2021**, *36*, 127828.
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290. Kim, Eun-Nam; Kim, Ga-Ram; Yu, Jae Sik; [Kim, Ki Hyun](#).* Jeong, Gil-Saeng.* Inhibitory Effect of (2R)-4-(4-hydroxyphenyl)-2-butanol 2-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside on RANKL-induced Osteoclast Differentiation and ROS generation in Macrophages. *Int. J. Mol. Sci.* **2021**, *22*, 222.
289. Oh, Taehoon; Kwon, Mincheol; Yu, Jae Sik; Jang, Mina; Kim, Gun-Hee; [Kim, Ki Hyun](#).* Ko, Sung-Kyun;* Ahn, Jong Seog.* *Ent*-Penicilerqueinone Suppresses Acetaldehyde-Induced Cytotoxicity and Oxidative Stress by Inducing ALDH and Suppressing MAPK Signaling. *Pharmaceutics* **2020**, *12*, 1229.
288. Chae, Sook In;† Yi, Sang Ah;† Nam, Ki Hong; Park, Kyoung Jin; Yun, Jihye; [Kim, Ki Hyun](#); Lee, Jaecheol; Han, Jeung-Whan.* Morolic Acid 3-O-Caffeate Inhibits Adipogenesis by Regulating Epigenetic Gene Expression. *Molecules* **2020**, *25*, 5910.

287. Park, Yong Joo;^a Lee, Kwang Ho;^a Jeon, Mi Seon; Lee, Yong Hoon; Ko, Yoon-Joo; Pang, Changhyun; Kim, Bonglee; Chung, Kyu Hyuck;* Kim, Ki Hyun* Hepatoprotective Potency of Chrysophanol 8-O-Glucoside from *Rheum palmatum* L. against Hepatic Fibrosis via Regulation of the STAT3 Signaling Pathway. *Int. J. Mol. Sci.* **2020**, *21*, 9044.
286. Lee, Hyun-Su; Yu, Jae Sik; Kim, Ki Hyun*; Jeong, Gil-Saeng.* Diketoacetylphenalenone, Derived from Hawaiian Volcanic Soil-Associated Fungus *Penicillium Herquei* FT729, Regulates T Cell Activation via Nuclear Factor- κ B and Mitogen-Activated Protein Kinase Pathway. *Molecules* **2020**, *25*, 5374.
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284. Lee, Kwang Ho; Yu, Jae Sik; Choi, Jin Hee; Kim, Seon-Hee; Ko, Yoon-Joo; Pang, Changhyun; Kim, Ki Hyun* Ginkgobilol, a new diarylpentanoid and an osteogenic diarylpentanoid analog from *Ginkgo biloba* leaves. *Bioorg. Med. Chem. Lett.* **2020**, *30*, 127641.
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277. Lee, Seoung Rak; Kang, Heesun; Yoo, Min Jeong; Yu, Jae Sik; Lee, Seulah; Yi, Sang Ah; Beemelmans, Christine; Lee, Jaecheol; Kim, Ki Hyun* Anti-adipogenic Pregnane Steroid from a *Hydractinia*-associated Fungus, *Cladosporium sphaerospermum* SW67. *Nat. Prod. Sci.* **2020**, *26*, 230-235.
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특허 (Patent)

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