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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

316. A new α -pyrone from *Arthrinium pseudosinense* culture medium and its estrogenic activity in MCF-7 cells. *J. Antibiot.* **2021**, *74*, in press.

315. Lee, Dahae; Lee, Seoung Rak; Kang, Ki Sung;* Kim, Ki Hyun.* Bioactive Phytochemicals from Mulberry: Potential Anti-Inflammatory Effects in Lipopolysaccharide-Stimulated RAW 264.7 Macrophages. *Int. J. Mol. Sci.* **2021**, *22*, 8120.

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312. Lee, Dahae;# Yu, Jae Sik;# Ryoo, Rhim; Kim, Jin-Chul; Jang, Tae Su; Kang, Ki Sung;* Kim, Ki Hyun.* *Pulveraven A* from the fruiting bodies of *Pulveroboletus ravenelii* induces apoptosis in breast cancer cell via extrinsic apoptotic signaling pathway. *J. Antibiot.* **2021**, *74*, in press.

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.

308. Lee, Kwang Ho;^a Kim, Jung Kyu;^a Yu, Jae Sik; Jeong, Se Yun; Choi, Jin Hee; Kim, Jin-Chul; Ko, Yoon-Joo; Kim, Seon-Hee; Kim, Ki Hyun.^{*} Ginkwanghols A and B, osteogenic coumaric acid-aliphatic alcohol hybrids from the leaves of *Ginkgo biloba*. *Arch. Pharm. Res.* **2021**, *44*, 514–524.
307. Lee, Yong Hoon;[†] Jang, Hee Joo;[†] Park, Kun Hee; Kim, Seon-Hee; Kim, Jung Kyu; Kim, Jin-Chul; Jang, Tae Su;^{*} Kim, Ki Hyun.^{*} Phytochemical Analysis of the Fruits of Sea Buckthorn (*Hippophae rhamnoides*): Identification of Organic Acid Derivatives. *Plants* **2021**, *10*, 860.
306. Lee, Seulah;[#] Kim, Chung Sub;[#] Yu, Jae Sik; Kang, Heesun; Yoo, Min Jeong; Youn, Ui Joung; Ryoo, Rhim; Bae, Han Yong; Kim, Ki Hyun.^{*} Ergopyrone, a Styrylpyrone-Fused Steroid with a Hexacyclic 6/5/6/6/6/5 Skeleton from a Mushroom *Gymnopilus orientispectabilis*. *Org. Lett.* **2021**, *23*, 3315–3319.
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.
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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.
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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.
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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.
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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 $\rightarrow$ 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-Penicilherqueinone 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.

285. Lee, Dahae;† Yu, Jae Sik;† Huang, Peng; Qader, Mallique; Manavalan, Arulmani; Wu, Xiaohua; Kim, Jin-Chul; Pang, Changhyun; Cao, Shugeng;* Kang, Ki Sung;* Kim, Ki Hyun.* Identification of Anti-inflammatory Compounds from Hawaiian Noni (*Morinda citrifolia* L.) Fruit Juice. *Molecules* **2020**, *25*, 4968.

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278. Lee, Seoung Rak; Schalk, Felix; Schwitalla, Jan W.; Berndorf, René; Vollmers, John; Kastner, Anne-Kristin; de Beer, Z. Wilhelm; Park, Minji; Ahn, Mi-Jeong; Jung, Won Hee; Beemelmans, Christine;* Kim, Ki Hyun.* Polyhalogenation of Isoflavonoids by the Termite-Associated *Actinomadura* sp. RB99. *J. Nat. Prod.* **2020**, *83*, 3102–3110.

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.

276. Lee, Seoung Rak; Choi, Jin Hee; Ryoo, Rhim; Kim, Jin-Chul; Pang, Changhyun; Kim, Seon-Hee; and Kim, Ki Hyun.* Ergostane-Type Steroids from Korean Wild Mushroom *Xerula furfuracea* that Control Adipocyte and Osteoblast Differentiation. *J. Microbiol. Biotechnol.* **2020**, *30*, 1769–1776.

275. Yu, Jae Sik; Sahar, Namood E; Bi, Yan-Ran; Jung, Kiwon; Pang, Changhyun; Huh, Joo Young;* Kim, Ki Hyun.* The Effects of Triterpenoid Saponins from the Seeds of *Momordica cochinchinensis* on

Adipocyte Differentiation and Mature Adipocyte Inflammation. *Plants* **2020**, *9*, 984.

274. Baek, Su Cheol; Lee, Bum Soo; Yi, Sang Ah; Lee, Jaecheol; Kim, Ki Hyun.^{*} Carthamusuchuric acid, an enolic glucoside of phenylpyruvic acid from the florets of *Carthamus tinctorius* and anti-adipogenic phenolic compounds. *Tetrahedron Lett.* **2020**, *61*, 152237.

273. Thapa, Punam; Gu, Ye; Kil, Yun-Seo; Baek, Su Cheol; Kim, Ki Hyun; Han, Ah-Reum; Seo, Eun Kyoung; Choi, Hyukjae; Chang, Jae-Hoon; Nam, Joo-Won.^{*} N-Acetyldopamine Derivatives from Periostracum Cicadae and Their Regulatory Activities on Th1 and Th17 Cell Differentiation. *Bioorg. Chem.* **2020**, *102*, 104095.

272. Baek, Su Cheol;† Lee, Bum Soo;† Yi, Sang Ah; Yu, Jae Sik; Lee, Jaecheol; Ko, Yoon-Joo; Pang, Changhyun;^{*} Kim, Ki Hyun.^{*} Discovery of Dihydrophaseic Acid Glucosides from the Florets of *Carthamus tinctorius*. *Plants* **2020**, *9*, 858.

271. Ha, Ji Won; Kim, Juhui; Kim, Hyunwoo; Jang, Wonyoung; Kim, Ki Hyun.^{*} Mushrooms: An Important Source of Natural Bioactive Compounds. *Nat. Prod. Sci.* **2020**, *26*, 118-131.

270. Yu, Jae Sik; Park, Minji; Pang, Changhyun; Rashan, Luay; Jung, Won Hee; Kim, Ki Hyun.^{*} Antifungal Phenols from *Woodfordia unijflora* Collected in Oman. *J. Nat. Prod.* **2020**, *83*, 2261–2268.

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267. Lee, Dahae;† Lee, Yong Hoon;† Lee, Kwang Ho;† Lee, Bum Soo; Alishir, Akida; Ko, Yoon-Joo; Kang, Ki Sung;^{*} Kim, Ki Hyun.^{*} Aviculin Isolated from *Lepedeza cuneata* Induce Apoptosis in Breast Cancer Cells through Mitochondria-Mediated Caspase Activation Pathway. *Molecules* **2020**, *25*, 1708.

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265. Lee, Seoung Rak; Kreuzenbeck, Nina B.; Jang, Mina; Oh, Taehoon; Ko, Sung-Kyun; Ahn, Jong Seog; Beemelmans, Christine; Kim, Ki Hyun.^{*} Xyloneside A: a new glycosylated incisterol derivative from *Xylaria* sp. FB. *ChemBioChem* **2020**, *21*, 2253-2258.

264. Kim, Yong-Goo; Komakech, Richard; Jeong, Dae Hui; Park, Yun Mi; Lee, Tae Kyoung; Kim, Ki Hyun; Lee, A Yeong; Moon, Byeong Cheol; Kang, Youngmin.^{*} Verification of the Field Productivity of *Rehmannia glutinosa* (Gaertn.) DC. Developed Through Optimized *In Vitro* Culture Method. *Plants* **2020**, *9*, 317.

263. Lee, Dahae;† Kang, Kyo Bin;† Kim, Hyun Woo; Park, Jung Sik; Hwang, Gwi Seo; Kang, Ki Sung; Choi, Sungyoul; Yamabe, Noriko;^{*} Kim, Ki Hyun.^{*} Unique Triterpenoid of Jujube Root Protects Cisplatin-induced Damage in Kidney Epithelial LLC-PK1 Cells via Autophagy Regulation. *Nutrients* **2020**, *12*, 677.

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260. Baek, Su Cheol;[†] Lee, Dahae;[†] Jo, Mun Seok; Lee, Kwang Ho; Lee, Yong Hoon; Kang, Ki Sung; Yamabe, Noriko;^{*} Kim, Ki Hyun.^{*} Inhibitory Effect of 1,5-Dimethyl Citrate from Sea Buckthorn (*Hippophae rhamnoides*) on Lipopolysaccharide-induced Inflammatory Response in RAW 264.7 Mouse Macrophages. *Foods* **2020**, *9*, 269.
259. Babaie, Soraya; Rahmani Del Bakhshayesh, Azizeh; Ha, Ji Won; Hamishehkar, Hamed;^{*} Kim, Ki Hyun.^{*} Invasome: A Novel Nanocarrier for Transdermal Drug Delivery. *Nanomaterials* **2020**, *10*, 341.
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257. Lee, Dahae; Lee, Seoung Rak; Kang, Ki Sung;^{*} Kim, Ki Hyun.^{*} Benzyl salicylate from the stems and stem barks of *Cornus walteri* as a nephroprotective agent against cisplatin-induced apoptotic cell death in LLC-PK1 cells. *RSC Adv.* **2020**, *10*, 5777–5784.
256. Lee, Seoung Rak; Lee, Dahae; Park, Musun; Lee, Joo Chan; Park, Hyun-Ju; Kang, Ki Sung; Kim, Chang-Eop; Beemelmans, Christine; Kim, Ki Hyun.^{*} Absolute Configuration and Corrected NMR Assignment of 17-Hydroxycyclooctatin, a Fused 5-8-5 Tricyclic Diterpene. *J. Nat. Prod.* **2020**, *83*, 354–361.
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253. Yi, Sang Ah;[†] Nam, Ki Hong;[†] Kim, Sil; So, Hae Min; Ryoo, Rhim; Han, Jeung-Whan; Kim, Ki Hyun.^{*} Lee, Jaecheol.^{*} Vulpinic Acid Controls Stem Cell Fate toward Osteogenesis and Adipogenesis. *Genes* **2020**, *11*, 18.
252. Park, Yong Joo;[†] Kim, Dong Min;[†] Jeong, Mi Ho; Yu, Jae Sik; So, Hae Min; Bang, In Jae; Kim, Ha Ryong; Kwon, Seung-Hwan; Kim, Ki Hyun.^{*} Chung, Kyu Hyuck.^{*} (-)-Catechin-7-O- β -D-Apiofuranoside Inhibits Hepatic Stellate Cells Activation by Suppressing STAT3 Signaling Pathway. *Cells* **2020**, *9*, 30.
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multiple egg-shaped micro-tubers (MESMT) through optimized growth conditions for use in ethnomedicine. *Plant Cell Tiss. Organ Cult.* **2020**, *140*, 173–184.

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특허 (Patent)

1. 항염증 활성 조성물 및 이를 포함하는 염증 질환예방 또는 치료용 약학적 조성물, 출원일: 2014.06.10, 특허 등록: 2016.01.07 (10-2014-0070369), 농촌진흥청
2. 조골세포 분화를 촉진하며 지방세포 분화를 억제하는 신규화합물 그 제조방법 및 그 응용, 출원일 2017.05.12, 특허 등록: 2018.09.05 (10-2017-0059133; 10-1897726), 성균바이오텍
3. 뽕나무버섯부치 추출물 또는 그의 분획물을 포함하는 염증성 위장관 질환의 예방 또는 치료용 조성물, 출원일 2017.02.24
4. 야관문 추출물의 분획물을 포함하는 암의 예방 또는 치료용 약학적 조성물, 출원일 2018.01.12 특허 등록: 2019.11.29 (10-2018-0004289; 10-2052516 호), 중앙대학교 산학협력단
5. 말톨, 이소소이아말로사이드 I 또는 이들의 혼합물을 유효성분으로 함유하는 아토피성 피부염 예방 또는 치료용 조성물, 출원일 2018.05.17 특허 등록: 2018.12.28 (10-2018-0056547; 10-1935371), 부산대학교 산학협력단, 성균관대학교 산학협력단
6. 흰개미-연관 *Actinomadura* sp. RB99로부터 수득된 사이클린 트리펩타이드 나탈렌아미드 A-C, 출원일 2018.11.21 (출원번호 : 10-2018-0144664)
7. 신규 화합물 및 이를 유효성분으로 함유하는 암의 예방 또는 치료용 조성물, 출원일 2019.10.24 (출원번호: 10-2019-0132722); 우선권번호 [KR 10-2019-0063526 (2019.05.30)]
8. 사이클릭 트리펩타이드, 이의 제조 방법, 및 이를 포함하는 미백용 조성물, 출원일 2019.09.05 (출원번호 : 10-2019-0109976) 등록일 : 2020.03.23 (등록번호 : 10-2094220)
9. 미국 특허 등록 – Novel compound promoting osteoblast differentiation and inhibiting adipocyte differentiation, preparation method thereof and application thereof, 출원일 2018.11.09 (출원번호 : US 16/300,086), WO/2017/209410, 특허 등록: 2019.12.03, US 10,494,356 B2)
10. 일본 특허 등록 – Novel compound promoting osteoblast differentiation and inhibiting adipocyte differentiation, preparation method thereof and application thereof, JP2019521091 특허 등록: 2019.10.25, 6605760)
11. 신규 폴리페놀 화합물 및 이를 유효성분으로 함유하는 항진균용 조성물, 출원일 2020.05.14 (출원번호 : 10-2020-0057720).
12. 산자나무 열매 추출물을 유효성분으로 하는 골대사 질환 예방 또는 치료용 조성물, 출원일 2020.09.07 (출원번호 : 10-2020-0113907).
13. 6-펜틸- α -피론을 유효성분으로 포함하는 항진균 조성물, 출원일 2020.09.10 출원번호 : 10-2020-0116150).
14. 페날레논 유도체를 유효성분으로 포함하는 숙취해소용 조성물, 출원일 2020.06.02 출원번호 : 10-2020-0066318).

AWARDS AND HONORS

Namgang Academic Prize (The Korean Pharmacognosy Society, 2011) – 남강학술상

The Promising Future Pharmaceutical Scientist Prize (The Pharmaceutical Society of Korea, 2010)
– 미래유망약학자상

Young Pharmacognosist Prize (The Korean Pharmacognosy Society, 2014) – 젊은 생약학자상

기술개발과제 산학협력 우수과제 수상 (성균관대학교 LINC 사업단, 2015)

우수 연구상 (Outstanding Research Award) (고려인삼학회, 2016)

BMB Reports 학술지상 (학술지공로부문) 수상 (생화학분자생물학회, 2017)

우수 연구상 (Outstanding Research Award) (고려인삼학회, 2018)

BMB Reports 학술지상 (학술지공로부문) 수상 (생화학분자생물학회, 2018)

학술기여상 수상 (생약학회, 2018)

우수 연구상 (Outstanding Research Award) (고려인삼학회, 2019)

우수연구논문상 (대한약학회, 2019)

학술기여상 수상 (생약학회, 2019)

우수 연구상 (Outstanding Research Award) (고려인삼학회, 2020)

학술기여상 수상 (생약학회, 2020)

SKKU Young Fellow (성균관대학교, 2021)

의산 우수논문상 (고려인삼학회, 2021)

Student Poster Award (The Pharmaceutical Society of Korea, 2010)

Student Poster Award (The Korean Pharmacognosy Society, 2010)

Academic Full Scholarship Award (six semesters, Sungkyunkwan Univ., 2001-2004)

2014.05- 현재 *Archives of Pharmacal Research* Associate Editor

2015.03- 현재 *Journal of Ginseng Research* Associate Editor

2017.05- 현재 *Bioorganic Chemistry* Editorial Board Member

2018.10- 현재 *Separations* Journal Editorial Board

2018.12- 현재 *Plants* Journal Editorial Board

2019.01- 현재 *Mycobiology* Associate Editor

2020.05 - 현재 *Longhua Chinese Medicine* Editorial Board Member

2021.06- 현재 *Frontiers in Bioscience-Landmark* Editorial Board Member

2021.07- 현재 국제기구 세계녹색기후기구(IO-WGCA) 국제 검증위원

2016.08- 현재 중앙약사심의위원회 전문가 식품의약품 안전처

2018.12.28 – 현재 아시아 균학회 (AMC) 유치 조직위원회 위원

REFERENCES

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