

CURRICULUM VITAE

Gyoonhee Han, Ph. D, FRSC

**Head, Graduate Program in Integrated Biotechnology and
Translational Medicine
CEO, S2Cbio**

**Professor
Department of Biotechnology
Department of Pharmacy
Department of the Integrated OMICS for Biomedical Sciences
(World Class University Program in Graduate School)
Department of Life Science and Biotechnology (UIC)
Yonsei University**

Educational Background:

Aug. 1992 - June 1997 Pennsylvania State University

Department of Chemistry, Ph. D. in Chemistry

Thesis Advisor: Professor Steven M. Weinreb

“Development of New Amide Oxidation Methodology and Its Application to
Enantioselective Total Synthesis of the *Securinega* Alkaloid: Approach to (+)-
8,9- Dihydro- norsecurinine and (-)-Norsecurinine”

March 1988 - Feb. 1990 Seoul National University

College of Pharmacy, M.S. in Medicinal Chemistry

Thesis Advisor: Professor Deukjoon Kim

March 1984 - Feb. 1988 Seoul National University

College of Pharmacy, B.S. in Pharmacy

Professional Experience:

Sep. 2009 - Present Professor, Department of the Integrated OMICS for
Biomedical Sciences (WCU Program in Graduate School),
Yonsei University

Mar. 2008 - Present Professor, Department of Biotechnology, Yonsei University

Mar. 2020 – Feb. 2021 Director, Research Institute of Integrated Biotechnology and
Translational Medicine

Mar. 2018 – Feb. 2020 Chair Person, Korea Association of Pharmacy Education

Mar. 2016 – Feb. 2018 Senior Director, Korea Association of Pharmacy Education

CURRICULUM VITAE

- Feb. 2015 – Jan. 2021 [Dean](#), College of Pharmacy, Yonsei University
- Mar. 2014 – Feb. 2016 [Director](#), Division of Integrated Science and Engineering, Underwood International College, Yonsei University
- Sep. 2013 - Feb. 2015 [Associate Dean for Planning](#), Underwood International College, Yonsei University
- Sep. 2011 - Aug. 2013 [Head](#), Department of Biotechnology, Yonsei University
- Apr. 2010 - Jan. 2011 [Vice Chair](#), Preparative Committee for College of Pharmacy, Yonsei University
- Mar. 2008 - Feb. 2010 [Associate Dean](#), College of Life Science and Biotechnology, Yonsei University
- Sep. 2004 - Mar. 2008 [Associate Professor](#), Department of Biotechnology, Yonsei University
- Feb. 2002 - Aug. 2004 [Senior Research Scientist](#), Korea Research Institute of Bioscience and Biotechnology
- Sept. 1999 - Feb. 2002 [Senior Research Scientist](#), Bayer Research Center Kyoto
“Development of New Chemical Entity for Asthma Therapy”
- July 1997 - Aug. 1999 [Postdoctoral Fellow](#), Department of Chemistry, Johns Hopkins University
Research Advisor: Professor Gary H. Posner
“Design, Development and Biological Evaluation of the Conceptually New Antiproliferative Analogs of $1\alpha,25$ -dihydroxyvitamin D₃”
- Mar. 1991 - June 1992 [Commissioned Research Scientist](#), Korea Institute of Science and Technology (KIST)

Awards and Honors

- ✓ The Prime Minister’s award for the Scientific Achievement and Promotion (in 43rd Korean National Science Day, 2010. 4. 23)
- ✓ The Best Teaching Award in 2008, Yonsei University
- ✓ The Outstanding Research Award in 2014 (Research Grant), Yonsei University
- ✓ The Outstanding Reviewer in 2014, Bioorganic & Medicinal Chemistry
- ✓ The Outstanding Reviewer in 2013, Journal of Medicinal Chemistry (2014. 7. 2)
- ✓ The Outstanding Reviewer in 2016, Journal of Medicinal Chemistry (2017. 2. 7)
- ✓ Cover Highlighted Article (The Journal of Organic Chemistry: 2000. 10. 8)

ACS Short Course:

"The Organic Chemistry of Drug Design and Drug Action"

CURRICULUM VITAE

by Professor Richard Silverman (Northwestern University)

Academic Affiliations

- ✓ Editorial Advisory Board: MedChemComm
- ✓ Fellow of Royal Society of Chemistry (RSC)
- ✓ Executive Member: Asian Chemical Biology Initiatives
- ✓ Member:
 - International: American Chemical Society
 - Domestic: Korean Society of Pharmacy, Korean Chemical Society, Korean Society of Bioinformatics and Systems Biology, Korean Society of Biochemistry and Molecular Biology, Korean Society of Biotechnology and Bioengineering

Publications

1. Novel pendrin inhibitor attenuates airway hyperresponsiveness and mucin expression in experimental murine asthma. Jinhong Park, Hyun Jae Lee, Doona Song, Mia Gi, Sungwoo Jo, Dong-kyu Jeon, Yohan Seo, Bomin Kim, Ho Lee, Wan Namkung, [Gyoonhee Han](#), Jae Young Choi, *Journal of Allergy and Clinical Immunology*, **2019**, *144*, 1425.
2. Therapeutic effects of the novel Leucyl-tRNA synthetase inhibitor BC-LI-0186 in non-small cell lung cancer. un Young Kim, Jin Gu Lee, Jung Mo Lee, Arum Kim, Hee Chan Yoo, Kibum Kim, Minji Lee, Chulho Lee, [Gyoonhee Han](#), Jung Min Han, Yoon Soo Chang, *Therapeutic Advances in Medical Oncology*, **2019**, *11*, 1758835919846798.
3. Nontranslational function of leucyl-tRNA synthetase regulates myogenic differentiation and skeletal muscle regeneration. Kook Son, Jae-Sung You, Mee-Sup Yoon, Chong Dai, Jong Hyun Kim, Nidhi Khanna, Aditi Banerjee, Susan A Martinis, [Gyoonhee Han](#), Jung Min Han, Sunghoon Kim, Jie Chen, *The Journal of Clinical Investigation*, **2019**, *129*. 2088.
4. CXXC5 mediates growth plate senescence and is a target for enhancement of longitudinal bone growth. Sehee Choi, Hyun-Yi Kim, Pu-Hyeon Cha, Seol Hwa Seo, Chulho Lee, Yejoo Choi, Wookjin Shin, Yunseok Heo, [Gyoonhee Han](#), Weontae Lee, Kang-Yell Choi, *Life Science Alliance*, **2019**, *2*, e201800254
5. Simultaneous Suppression of Multiple Programmed Cell Death Pathways by miRNA-105 in Cardiac Ischemic Injury. unhye Shin, Jung-Won Choi, Hanbyeol

CURRICULUM VITAE

- Moon, Chang Youn Lee, Jun-Hee Park, Jiyun Lee, Hyang-Hee Seo, [Gyoonhee Han](#), Soyeon Lim, Seahyoung Lee, Sang Woo Kim, Ki-Chul Hwang, *Molecular Therapy-Nucleic Acids*, **2019**, *14*, 438-449.
6. RNA-dependent chaperone (chaperna) as an engineered pro-region for the folding of recombinant microbial transglutaminase. Jinhee Lee, Ahyun Son, Paul Kim, Soon Bin Kwon, Ji Eun Yu, [Gyoonhee Han](#), Baik L Seong, *Biotechnology and bioengineering*, **2019**, *116*, 490-502.
 7. A Ras destabilizer KYA1797K overcomes the resistance of EGFR tyrosine kinase inhibitor in KRAS-mutated non-small cell lung cancer. ieun Park, Yong-Hee Cho, Wook-Jin Shin, Sang-Kyu Lee, JaeHeon Lee, Taehyung Kim, Pu-Hyeon Cha, Jee Sun Yang, Jaebeom Cho, [Gyoonhee Han](#), Ho-Young Lee, Kang-Yell Choi, *Scientific Reports*, **2019**, *9*, 648.
 8. Optimization of Vinyl Sulfone Derivatives as Potent Nuclear Factor Erythroid 2-Related Factor 2 (Nrf2) Activators for Parkinson's Disease Therapy. i Won Choi, Siwon Kim, Jong-Hyun Park, Hyeon Jeong Kim, Su Jeong Shin, Jin Woo Kim, Seo Yeon Woo, Changho Lee, Sang Moon Han, Jaeick Lee, Ae Nim Pae, Gyoonhee Han, Ki Duk Park, *Journal of Medicinal Chemistry*, **2018**, *62*, 811-830.
 9. β -Catenin-RAS interaction serves as a molecular switch for RAS degradation via GSK3 β . Sang-Kyu Lee, Woo-Jeong Jeong, Yong-Hee Cho, Pu-Hyeon Cha, Jeong-Su Yoon, Eun Ji Ro, Soho Choi, Jeong-Min Oh, Yunseok Heo, Hyuntae Kim, [Gyoonhee Han](#), Weontae Lee, Kang-Yell Choi, *EMBO Report*, **2018**, *19*.
 10. A small molecule approach to degrade RAS with EGFR repression is a potential therapy for KRAS mutation-driven colorectal cancer resistance to cetuximab. Sang-Kyu Lee, Yong-Hee Cho, Pu-Hyeon Cha, Jeong-Soo Yoon, Eun Ji Ro, Woo-Jeong Jeong, Jieun Park, Hyuntae Kim, Tae Il Kim, Gyoonhee Han, Kang-Yell Choi, *Experimental & molecular medicine*, **2018**, *50*, 153.
 11. Coordination of the leucine-sensing Rag GTPase cycle by leucyl-tRNA synthetase in the mTORC1 signaling pathway, Minji Lee, Jong Hyun Kim, Ina Yoon, Chulho Lee, Mohammad Fallahi Sichani, Jong Soon Kang, Jeonghyun Kang, Min Guo, Kang Young Lee, [Gyoonhee Han](#), Sunghoon Kim, Jung Min Han, *Proceedings of the National Academy of Sciences*, 2018, *115*, E5279-E5288.
 12. Glycosylation of hemagglutinin and neuraminidase of influenza a virus as signature for ecological spillover and adaptation among influenza reservoirs, Paul Kim, Yo Jang, Soon Kwon, Chung Lee, [Gyoonhee Han](#), Baik Seong, *Viruses*, 2018, *10*, 183
 13. Synthesis and evaluation of biaryl derivatives for structural characterization of selective monoamine oxidase B inhibitors toward Parkinson's disease therapy. Seul

CURRICULUM VITAE

- Ki Yeon, Ji Won Choi, Jong-Hyun Park, Ye Rim Lee, Hyeon Jeong Kim, Su Jeong Shin, Bo Ko Jang, Siwon Kim, Yong-Sun Bahn, [Gyoonhee Han](#), Yong Sup Lee, Ae Nim Pae, Ki Duk Park, *Bioorganic & medicinal chemistry*, **2018**, 26, 232-244.
- Control of leucine-dependent mTORC1 pathway through chemical intervention of leucyl-tRNA synthetase and RagD interaction. Jong Hyun Kim, Chulho Lee, Minji Lee, Haipeng Wang, Kibum Kim, Seung Joon Park, Ina Yoon, Jayun Jang, Hanchao Zhao, Hoi Kyoung Kim, Nam Hoon Kwon, Seung Jae Jeong, Hee Chan Yoo, Jae Hyun Kim, Jee Sun Yang, Myeong Youl Lee, Chang Woo Lee, Jieun Yun, Soo Jin Oh, Jong Soon Kang, Susan A. Martinis, Kwang Yeon Hwang, Min Guo, [Gyoonhee Han](#), Jung Min Han & Sunghoon Kim *Nature Communications* **2017**, 732.
 - HDAC6 deacetylates p53 at lysines 381/382 and differentially coordinates p53-induced apoptosis. Hyun-Wook Ryu, Dong-Hee Shin, Dong Hoon Lee, Junjeong Choi, [Gyoonhee Han](#), Kang Young Lee, So Hee Kwon, *Cancer Letter*, **2017**, 391, 162-171.
 - Synthetic strategy for increasing solubility of potential FLT3 inhibitor thieno[2,3-d]pyrimidine derivatives through structural modifications at the C2 and C6 positions. Changmok Oh, Hyuntae Kim, Jong Soon Kang, Jieun Yun, Jaejun Sim, Hwan-Mook Kim, [Gyoonhee Han](#) *Bioorganic & Medicinal Chemistry Letters* **2017**, 27, 496–500.
 - HDAC6 deacetylates p53 at lysines 381/382 and differentially coordinates p53-induced apoptosis. Hyun-Wook Ryu, Dong-Hee Shin, Dong Hoon Lee, Junjeong Choi, [Gyoonhee Han](#), Kang Young Lee, So Hee Kwon *Cancer Letters* **2017**, 391, 162–171.
 - Improving potency and metabolic stability by introducing an alkenyl linker to pyridine-based histone deacetylase inhibitors for orally available RUNX3 modulators. Doona Song, Chulho Lee, Yoon Jeong Kook, Soo Jin Oh, Jong Soon Kang, Hyun-Jung Kim, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry* **2017**, 126, 997-1010.
 - Small-molecule binding of the axin RGS domain promotes β -catenin and Ras degradation. Pu-Hyeon Cha, Yong-Hee Cho, Sang-Kyu Lee, JaeHeon Lee, Woo-Jeong Jeong, Byoung-San Moon, Ji-Hye Yun, Jee Sun Yang, Sooho Choi, Juyong Yoon, Hyun-Yi Kim, Mi-Yeon Kim, Saluja Kaduwal, Weontae Lee, Do Sik Min, Hoguen Kim, [Gyoonhee Han](#), Kang-Yell Choi *Nature Chemical Biology* **2016**, 12, 593-600.
 - Potential therapeutic application of small molecule with sulfonamide for

CURRICULUM VITAE

- chondrogenic differentiation and articular cartilage repair. Eunhyun Choia, Jiyun Lee, Seahyoung Lee, Byeong-Wook Song, Hyang-Hee Seo, Min-Ji Cha, Soyeon Lim, Chulho Lee, Suk-Won Song, [Gyoonhee Han](#), Ki-Chul Hwang *Bioorganic & Medicinal Chemistry Letters* **2016**, *15*, 5098-5102.
21. Structural modifications at the 6-position of thieno[2,3-d]pyrimidines and their effects on potency at FLT3 for treatment of acute myeloid leukemia. Hyuntae Kim, Chulho Lee, Jee Sun Yang, Seonghwi Choi, Chun-Ho Park, Jong Soon Kang, Soo Jin O, Jieun Yun, Myung-Hwa Kim, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry* **2016**, *120* 74-85.
 22. M1 RNA is important for the in-cell solubility of its cognate C5 protein: Implications for RNA-mediated protein folding. Ahyun Son, Seong Il Choi, [Gyoonhee Han](#), Baik L Seong *RNA Biology*, 2015, *12:11*, 1198-1208.
 23. Synthesis of a series of unsaturated ketone derivatives as selective and reversible monoamine oxidase inhibitors. Ji Won Choi, Bo Ko Janga, Nam-chul Cho, Jong-Hyun Park, Seul Ki Yeon, Eun Ji Ju, Yong Sup Lee, [Gyoonhee Han](#), Ae Nim Pae, Dong Jin Kim, Ki Duk Park *Bioorganic & Medicinal Chemistry* **2015**, *23*, 6486-6496.
 24. Identification of a thienopyrimidine derivatives target by a kinome and chemical biology approach. Chulho Lee, Jee Sun Yang, [Gyoonhee Han](#) *Archives of Pharmacal Research* **2015**, *38*, 1575-1581.
 25. Discovery of Orally Available Runt-Related Transcription Factor 3 (RUNX3) Modulators for Anticancer Chemotherapy by Epigenetic Activation and Protein Stabilization. Jee Sun Yang, Chulho Lee, Misun Cho, Hyuntae Kim, Jae Hyun Kim, Seonghwi Choi, Soo Jin Oh, Jong Soon Kang, Jin-Hyun Jeong, Hyun-Jung Kim, [Gyoonhee Han](#) *J. Med. Chem.*, **2015**, *58*, 3512–3521
 26. *Euodia sutchuenensis* Dode extract stimulates osteoblast differentiation via Wnt/ β -catenin pathway activation. Jeong-Ha Hwang, Pu-Hyeon Cha, [Gyoonhee Han](#), Tran The Bach, Do Sik Min, Kang-Yell Choi *Exp Mol Med*. **2015**, *47*, e152.
 27. The small molecule indirubin-3'-oxime activates Wnt/ β -catenin signaling and inhibits adipocyte differentiation and obesity. O. M. Choi, Y.-H. Cho, S. Choi, S.-H. Lee, S. H. Seo, H.-Y. Kim, G. Han, D. S. Min, T. Park, K. Y. Choi *International Journal of Obesity* **2014**, *38*, 1044–1052

CURRICULUM VITAE

28. Development of a Novel Class of Mitochondrial Ubiquinol–Cytochrome cReductase Binding Protein (UQCRB) Modulators as Promising Antiangiogenic Leads. Hye Jin Jung, Misun Cho, Yonghyo Kim, [Gyoonhee Han](#), Ho Jeong Kwon *Journal of Medicinal Chemistry* **2014**, 57, 7990–7998
29. Synthesis and biological evaluation of novel thieno[2,3-*d*]pyrimidine-based FLT3 inhibitors as anti-leukemic agents. Jee Sun Yang, Chun-Ho Park, Chulho Lee, Hwan Kim, Changmok Oh, Yejoo Choi, Jong Soon Kang, Jieun Yun, Jin-Hyun Jeong, Myung-Hwa Kim, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry*, **2014**, 85, 399–407.
30. Discovery of thienopyrimidine-based FLT3 inhibitors from the structural modification of known IKK β inhibitors. Chun-Ho Park, Chulho Lee, Jee Sun Yang, Bo-Young Joe, Kwangwoo Chun, Hyuntae Kim, Hye Yun Kim, Jong Soon Kang, Jangik I. Lee, Myung-Hwa Kim, [Gyoonhee Han](#) *Bioorganic & Medicinal Chemistry Letters* **2014**, 24, 2655–2660.
31. p300 cooperates with c-Jun and PARP-1 at the p300 binding site to activate RhoB transcription in NSC126188-mediated apoptosis. Bo-Kyung Kim, Joo-Young Im, [Gyoonhee Han](#), Woo-Jung Lee, Kyoung-Jae Wona, Kyung-Sook Chung, Kyeong Lee, Hyun Seung Ban, KyungBin Song, Misun Won *Biochimica et Biophysica Acta* **2014**, 1839, 364–373
32. NSC126188 induces apoptosis of prostate cancer PC-3 cells through inhibition of Akt membrane translocation, FoxO3a activation, and *RhoB* transcription. Kyoung-Jae Won, Bo Kyung Kim, [Gyoonhee Han](#), Kyeong Lee, Young-Jin Jung, Hwan-Mook Kim, Kyung Bin Song, Kyung-Sook Chung, Misun Won *Apoptosis* **2014**, 19, 179-190.
33. Lactam-Based HDAC Inhibitors for Anticancer Chemotherapy: Restoration of RUNX3 by Posttranslational Modification and Epigenetic Control. Misun Cho, Eunhyun Choi, Hyun Kim, Hwan Kim, Hwan Mook Kim, Jang Ik Lee, Ki-Chul Hwang, Hyun-Jung Kim, Gyoonhee Han *ChemMedChem* (Special Issue: Epigenetics & Drug Discovery) **2014**, 9, 649–656.
34. Chemical suppression of the pro-metastatic lysyl-tRNA synthetase-laminin receptor interaction. Dae Gyu Kim, Jin Young Lee, Nam Hoon Kwon, Pengfei Fang, Qian

CURRICULUM VITAE

- Zhang, Jing Wang, Nicolas L. Young, Alan G. Marshall, Min Guo, Hye Young Cho, AmeerqUl Mushtaq, Young Ho Jeon, Jin Woo Choi, Jung Min Han, Ho Woong Kang, Jae Eun Joo, Youn Hur, Wonyoung Kang, Heekyo ung Yang, Do-Hyun Nam, Mi-Sook Lee, Jung Weon Lee, Eun-Sook Kim, Aree Moon, Kibom Kim, Doyeun Kim, Eun Joo Kang, Youngji Moon, Kyung Hee Rhee, Byung Woo Han, Jee Sun Yang, [Gyoonhee Han](#), Won Suk Yang, Cheolju Lee, Ming-Wei Wang, Sunghoon Kim *Nature Chemical Biology* **2014**, *10*, 29-34.
- 35.** New synthetic aliphatic sulfonamido-quaternary ammonium salts as anticancer chemotherapeutic agents. Doona Song, Jee Sun Yang, Changmok Oh, Cui Shuolin, Bo-Kyung Kim, Misun Won, Jang-ik Lee, Hwan Mook Kim, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry* **2013**, *69*, 670–677
- 36.** A248, a novel synthetic HDAC inhibitor, induces apoptosis through the inhibition of specificity protein 1 and its downstream proteins in human prostate cancer cells. Eun-Sun Choi, [Gyoonhee Han](#), Song-Kyu Park, Kiho Lee, Hyun-Jung Kim, Sung-Dae Cho, Hwan Mook Kim *Molecular Medicine Report* **2013**, *8*, 195-200
- 37.** Identification of methyl violet 2B as a novel blocker of focal adhesion kinase signaling pathway in cancer cells. Hwan Kim, Nam Doo Kim, Jiyeon Lee, [Gyoonhee Han](#), Taebo Sim. *Biochemical and Biophysical Research Communications* **2013**, *437*, 319–324.
- 38.** Synthesis and biological evaluation of novel aliphatic amido-quaternary ammonium salts for anticancer chemotherapy: Part II. Jee Sun Yang, Doona Song, Won Jin Ko, Bunyea Kim, Bo-Kyung Kim, Song-Kyu Park, Misun Won, Kiho Lee, Kyeong Lee, Hwan Mook Kime, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry* **2013**, *63*, 621-628.
- 39.** Design, synthesis and biological evaluation of novel aliphatic amido/sulfonamido-quaternary ammonium salts as antitumor agents. Doona Song, Jee Sun Yang, Seo Joong Kim, Bo-Kyung Kim, Song-Kyu Park, Misun Won, Kiho Lee, Hwan Mook Kim, Kang-Yell Choi, , Kyeong Lee, [Gyoonhee Han](#) *Bioorganic & Medicinal Chemistry* **2013**, *21*, 788–794.
- 40.** Discovery of Pyridone-Based Histone Deacetylase Inhibitors: Approaches for Metabolic Stability. Misun Cho, Eunhyun Choi, Jee Sun Yang, Chulho Lee, Jeong Jea Seo, Beom Seok Kim, Soo Jin Oh, Hwan Mook Kim, Kiho Lee, Song-Kyu Park,

CURRICULUM VITAE

Ho Jeong Kwon, Gyoonhee Han *ChemMedChem*. **2013**, *8*, 272–279.

41. Property-Based Optimization of Hydroxamate-Based γ -Lactam HDAC Inhibitors to Improve Their Metabolic Stability and Pharmacokinetic Profiles. Eunhyun Choi, Chulho Lee, Misun Cho, Jeong Jea Seo, Jee Sun Yang, Soo Jin Oh, Kiho Lee, Song-Kyu Park, Hwan Mook Kim, Ho Jeong Kwon, [Gyoonhee Han](#) *Journal of Medicinal Chemistry* **2012**, *55*, 10766–10770.
42. Structure and property based design, synthesis and biological evaluation of ϵ -lactam based HDAC inhibitors: Part II. Chulho Lee, Eunhyun Choi, Misun Cho, Boah Lee, Soo Jin Oh, Song-Kyu Park, Kiho Lee, Hwan Mook Kim, [Gyoonhee Han](#) *Bioorganic & Medicinal Chemistry Letters* **2012**, *22* 4189–4192.
43. Structure-Activity Relationship of Novel Lactam Based Histone Deacetylase Inhibitors as Potential Anticancer Drugs. Jee Sun Yang, Tae-Gyu Chun, Ky-young Nam, Hwan Mook Kim, [Gyoonhee Han](#) *Bull. Korean Chem. Soc.* **2012**, *33*, 2063
44. Synthesis and biological evaluation of novel aliphatic amido-quaternary ammonium salts for anticancer chemotherapy: Part I. Jee Sun Yang, Doona Song, Boah Lee, Won Jin Ko, Song-Kyu Park, Misun Won, Kiho Lee, Hwan Mook Kim, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry*, **2011**, *46*, 2861-2866.
45. Upregulation of RhoB via c-Jun N-terminal kinase signaling induces apoptosis of the human gastric carcinoma NUGC-3 cells treated with NSC12618. *Carcinogenesis*, **2011**, *32*, 254-261.
46. Structure and property based design, synthesis and biological evaluation of γ -lactam based HDAC inhibitors. Eunhyun Choi, Chulho Lee, Jung Eun Park, Jeong Jea Seo, Misun Cho, Jong Soon Kang, Hwan Mook Kim, Song-Kyu Park, Kiho Lee, [Gyoonhee Han](#) *Bioorg. Med. Chem. Lett.* **2011**, *21*, 1218–1221.
47. Identification of a novel small molecule targeting UQCRL3 of mitochondrial complex III and its anti-angiogenic activity. Hye Jin Jung, Ki Hyun Kim, Nam Doo Kim, [Gyoonhee Han](#), Ho Jeong Kwon *Bioorg. Med. Chem. Lett.* **2011**, *21*, 1052–1056.
48. Structure based Design and Synthesis of Chromen-Based TNF- α Converting Enzyme (TACE) Inhibitors: P1' Pocket Modification. Jee Sun Yang, Kwangwoo Chun, Chun-Ho Park, Bo-Young Joe, Jong-Hee Choi, Myung-Hwa Kim, Jee Sun Yang, Jung Eun Park, Misun Cho, [Gyoonhee Han](#) *Bioorg. Med. Chem.* **2010**, *18*,

CURRICULUM VITAE

8618–8629.

- 49.** Property based optimization of δ -lactam HDAC inhibitors for metabolic stability. Hong Chul Yoon, Eunhyun Choi, Jung Eun Park, Misun Cho, Jeong Jea Seo, Soo Jin Oh, Jong Soon Kang, Hwan Mook Kim, Song-Kyu Park, Kiho Lee, [Gyoonhee Han](#) *Bioorg. Med. Chem. Lett.* **2010**, *20*, 6808–6811.
- 50.** Regulation of *in vitro* A β _{1–40} Aggregation Mediated by Small Molecules. Hye Yun Kim, Young Soo Kim, [Gyoon Hee Han](#),* and Dong Jin Kim* *J. Alzh. Res.* **2010**, *22* 73–85.
- 51.** A novel δ -lactam-based histone deacetylase inhibitor, KBH-A42, induces cell cycle arrest and apoptosis in colon cancer cells. Moo Rim Kang, Jong Soon Kang, Sang-Bae Han, Jang Hyun Kim, Dong-Myung Kim, Kiho Lee, Chang Woo Lee, Ki Hoon Lee, Chul Ho Lee, [Gyoonhee Han](#), Jong Seong Kang, Hwan Mook Kim, Song-Kyu Park. *Biochemical Pharmacology* **2009**, *78*, 486-494.
- 52.** A novel γ -lactam-based histone deacetylase inhibitor potently inhibits the growth of human breast and renal cancer cells. Kwon, Hyoung Keun; Ahn, Seong Hoon; Park, Se Hong; Park, Jae Hyun; Park, Jong Woo; Kim, Hwan Mook; Park, Song-Kyu; Lee, Kiho; Lee, Chang-Woo; Choi, Eunhyun; [Han, Gyoonhee](#)*; Han, Jeung-Whan* *Biological & Pharmaceutical Bulletin* **2009**, *32*, 1723-1717.
- 53.** RhoB induces apoptosis via direct interaction with TNFAIP1 in HeLa cells. Kim, Dong-Myung; Chung, Kyung-Sook; Choi, Shin-Jung; Jung, Yu-Jin; Park, Song-Kyu; [Han, Gyoon-Hee](#); Ha, Jae-Seok; Song, Kyung-Bin; Choi, Nam-Song; Kim, Hwan-Mook; Won, Misun; Seo, Yeon-Soo *International Journal of Cancer*, **2009**, *125*, 2520-2527
- 54.** Inhibition of Human Ovarian Tumor Growth by Cytokine-induced Killer Cells. Hwan Mook Kim, Jong Soon Kang, Jaeseung Lim, SongoKyu Park, Kiho Lee, Yeo Dae Yoon, Chang Woo Lee, Ki Hoon Lee, [Gyoonhee Han](#), Kyu-Hwan Yang, Yeon Jin Kim, Youngsoo Kim, Sang-Bae Han. *Arch. Pharm. Res.* **2007**, *30*, 1464-1470.
- 55.** Reversine Increases the Plasticity of Lineage-committed Cells toward Neuroectodermal Lineage. Eun Kyung Lee, Gyu-Un Bae, Jueng Soo You, Jae Cheol Lee, Yae Jee Jeon, Jong Woo Park, Jae Hyun Park, Seong Hoon Ahn, Yong Kee Kim, Wahn Soo Choi, Jong-Sun Kang, [Gyoonhee Han](#), and Jeung-Whan Han. *J. Biol.*

CURRICULUM VITAE

- Chem.* **2009**, *284*, 2891–2901.
- 56.** Antiinflammatory Activity of Methanol Extract isolated from Stem Bark of *Magnolia kobus*. Jong Soon Kang, Ki Hoon Lee, Mi Hwa Han, Hyunju Lee, Ji-Mi Ahn, Sang-Bae Han, [Gyoonhee Han](#), Kiho Lee, Song-Kyu Park, Hwan Mook Kim. *Phytother. Res.* **2008**, *22*, 883–888.
- 57.** Inhibition of Skin Inflammation and Atopic Dermatitis by Topical Application of a Novel Ceramide Derivative, K112PC-5, in Mice. Jong Soon Kang, Chang Woo Lee, Kiho Lee, Mi Hwa Han, Hyunju Lee, Jong-Kyung Youm, Se Kyoo Jeong, Byeong Deog Park, Sang-Bae Han, [Gyoonhee Han](#), Song-Kyu Park, Hwan Mook Kim. *Arch Pharm Res.* **2008**, *31*, 1004-1009.
- 58.** Histone deacetylase inhibitor KBH-A42 inhibits cytokine production in RAW 264.7 macrophage cells and *in vivo* endotoxemia model. Yongseok Choi, Song-Kyu Park, Hwan Mook Kim, Jong Soon Kang, Yeo Dae Yoon, Sang Bae Han, Jeung Whan Han, Jee Sun Yang, [Gyoonhee Han](#). *Experimental and Molecular Medicine* **2008**, Vol. 40, No. 5, 574-581.
- 59.** Antiinflammatory Activity of Methanol Extract isolated from Stem Bark of *Magnolia kobus*. Jong Soon Kang, Ki Hoon Lee, Mi Hwa Han, Hyunju Lee, Ji-Mi Ahn, Sang-Bae Han, [Gyoonhee Han](#), Kiho Lee, Song-Kyu Park, Hwan Mook Kim. *Phytother. Res.* **2008**, *22*, 883–888.
- 60.** Synthesis of amide and urea derivatives of benzothiazole as Raf-1 inhibitor. Eun Young Song, Navneet Kaur, Mi-Young Park, Yinglan Jin, Kyeong Lee, Guncheol Kim, Ki Youn Lee, Jee Sun Yang, Jae Hong Shin, Ky-Youb Nam, Kyoung Tai No, [Gyoonhee Han](#) *European Journal of Medicinal Chemistry* **2008**, *43*, 1519-1524
- 61.** In vitro metabolism of KBH-A40, a novel δ -lactam-based histone deacetylase (HDAC) inhibitor, in human liver microsomes and serum. H. M. Kim S. J. Oh, S. , - K. Park, [G. Han](#), K. Kim, K. S. Lee, J. S. Kang, M. Nam, K. Lee *Xenobiotica* **2008**, *38*, 281-293
- 62.** Anti-tumor activity of ex vivo expanded cytokine-induced killer cells against human hepatocellular carcinoma. Hwan Mook Kim Jaeseung Lim, Yeo Dae Yoon, Ji Mi Ahn, Jong Soon Kang, Kiho Lee, Song-Kyu Park, Yu Jin Jeong, Jin Mi Kim, [Gyoonhee Han](#), Kyu-Hwan Yang, Yeon Jin Kim, Youngsoo Kim, Sang-Bae Han *International Immunopharmacology* **2007**, *7* 1793–1801.

CURRICULUM VITAE

- 63.** Antitumor activity of cytokine-induced killer cells against human lung cancer. Hwan Mook Kim, Jaeseung Lim, Song-Kyu Park, Jong Soon Kang, Kiho Lee, Chang Woo Lee, Ki Hoon Lee, Mi-Jung Yun, Kyu-Hwan Yang, [Gyoonhee Han](#), Soon Woo Kwon, Youngsoo Kim, Sang-Bae Han *International Immunopharmacology* **2007** 7, 1802–1807.
- 64.** Chromen-based TNF- α converting enzyme (TACE) inhibitors: Design, synthesis, and biological evaluation. Kwangwoo Chun, Song-Kyu Park, Hwan Mook Kim, Yongseok Choi, Myung-Hwa Kim, Chun-Ho Park, Bo-Young Joe, Tae Gyu Chun, Hyun-Moo Choi, Hee-Yoon Lee, Sung Hee Hong, Myung Sook Kim, Ky-Youb Nam, [Gyoonhee Han](#) *Bioorg. Med. Chem.* **2008**, 16, 530-535.
- 65.** Modification of cap group in d-lactam-based histone deacetylase (HDAC) inhibitors. Hwan Mook Kim, Sung Hee Hong, Myung Sook Kim, Chang Woo Lee, Jong Soon Kang, Kiho Lee, Song-Kyu Park, Jeung Whan Han, Hee Yoon Lee, Yongseok Choi, Ho Jeung Kwon, [Gyoonhee Han](#) *Bioorg. Med. Chem. Lett.* **2007**, 17, 6234-6238.
- 66.** Structure-Activity Relationship Studies of a Series of Novel δ -Lactam based Histone Deacetylase Inhibitors. Hwan Mook Kim, Dong-Kyu Ryu, Yongseok Choi, Bum Woo Park, Kiho Lee, Sang Bae Han, Chang-Woo Lee, Moo-Rim Kang, Jong Soon Kang, Shanthaveerappa K. Boovanahalli, Song-Kyu Park, Jung Whan Han, Tae-Gyu Chun, Hee-Yoon Lee, Ky-Youb Nam, Eun Hyun Choi, [Gyoonhee Han](#) *J. Med. Chem.* **2007**, 50, 2737-2741.
- 67.** A facile synthesis of 2-acyl and 2-alkylbenzimidazoles for 5-lipoxygenase inhibitors. Jin Ha Lee, Mi Hyun Ahn, Eun Hyun Choi, Hea-Young Park Choo and [Gyoonhee Han](#) *Heterocycles*, **2006**, 70, 571-580.
- 68.** Synthesis, enzymatic inhibition, and cancer cell growth inhibition of novel d-lactam-based histone deacetylase (HDAC) inhibitors. Hwan Mook Kim, Kiho Lee, Bum Woo Park, Dong Kyu Ryu, Kangjeon Kim, Chang Woo Lee, Song-Kyu Park, Jung Whan Han, Hee Yoon Lee, Hyun Yong Lee and [Gyoonhee Han](#) *Bioorg. Med. Chem. Lett.* **2006**, 16, 4068-4070.
- 69.** TNF- α Converting Enzyme (TACE) Inhibitors from a Natural Source, Gelastatins and Their Hydroxamates: Synthesis, Biological Evaluation, Mechanism Studies, and Selectivity to α -Secretase. Song-Kyu Park, Sang Bae Han, Ki-Ho Lee, Song-Kyu

CURRICULUM VITAE

- Park, , Yung Hee Kho, Hyokon Chun, Ho Jae Lee, Choon-Whan Lee, Jae Young Yang, Yeo Dae Yoon, , Hwan Mook Kim, Hyun-Moo Choi, Hyun Seop Tae, Byung Gyu Kim, Hee-Yoon Lee, Ky-Youb Nam, [Gyoonhee Han](#) *Biochem. Biophys. Res. Comm.* **2006**, *341*, 627-634.
- 70.** Solid phase combinatorial synthesis of benzothiazoles and evaluation of topoisomerase II inhibitory activity. Suk-June Choi, Hyen Joo Park, Sang Kook Lee, Sang Woong Kim, [Gyoonhee Han](#) and Hea-Young Park Choo, *Bioorg. Med. Chem.* **2006**, *14*, 1229–1235.
- 71.** A Facile Synthesis of 2-Aminothiazolo[5,4-b]pyridines and 2-Aminobenzoxazoles via Cyclization of Thiourea. Ju Hee Yoon, Hyunmin Song, Sang Wong Kim, [Gyoonhee Han](#), and Hea-Young Park Choo, *Heterocycles* **2005**, *65*, 2729~2740
- 72.** Epac1-Mediated Rap1 Activation Is Not Required for the Production of Nitric Oxide in BV2, Murine Microglial Cells. Eun-Yi Moon, Su-Young Oh, [Gyoon-Hee Han](#), Chul-Sang Lee, Song-Kyu Park, *J. Neuro. Sci. Res.* **2005**, *81*, 38-44.
- 73.** Screening and biotransformation of the interleukin-1 β converting enzyme production inhibitors from *Arctii Fructus*. Hyun A Kim, Do Young Yoon, Sang-Myung Lee, Seung-Hwa Baek, [Gyoon-Hee Han](#), Young-Hee Kho, Choong Hwan Lee *J. Micro. Biotech.* **2005**, *15*, 269-273.
- 74.** PPAR α activation abolishes LDL-stimulated IL-8 production via AP-1 deactivation in human aortic smooth muscle cells. Sungwoo Ryoo, Misun Won, Dong-Uk Kim, Lila Kim, [Gyoonhee Han](#), Seung-Kiel Park, Naofumi Mukaida, Piljae Maeng, Hyang-Sook Yoo, and Kwang-Lae Hoe *Biochemical and Biophysical Research Communications* **2004**, *318*, 329–334.
- 75.** Deprotection of benzyl and p-methoxybenzyl ethers by chlorosulfonyl isocyanate–sodium hydroxide. Ji Duck Kim, [Gyoonhee Han](#), Ok Pyo Zee and Young Hoon Jung *Tetrahedron Lett.* **2003**, *44*, 733-735.
- 76.** Dictyoquinazols, A, B and C, New Neuroprotective Compounds from the Mushroom *Dictyophora indusiata*. In Kyoung Lee, Bong-Sik Yoon, [Gyoonhee Han](#), Duck-Hyun Cho, Young-Ho Kim, Ick-Dong Yoo *J. Nat. Prod.* **2002**, *65*, 1769-1772.
- 77.** Study on the Stability of Carbocations by Chlorosulfonyl Isocyanate Reaction with Ethers. Ji Duck Kim, [Gyoonhee Han](#), Lak Shin Jeong, Hyunju Park, Ok Pyo Zee, Young Hoon Jung *Tetrahedron*, **2002**, *58*, 4395.

CURRICULUM VITAE

- 78.** Synthesis of N-Protected Allyl Amines from Allyl Ethers. Ji Duck Kim, Min Hee Lee, [Gyoonhee Han](#), Hyunju Park, Ok Pyo Zee, Young Hoon Jung *Tetrahedron*, **2001**, *57*, 8257-8266.
- 79.** Enantioselective Total Syntheses of the *Securinega* Alkaloids. (+)-14,15-Dihydronorsecurinine, (-)-Norsecurinine, and Phyllanthine. [Gyoonhee Han](#), Matthew G. LaPorte, James J. Folmer, Kim M. Werner and Steven M. Weinreb *J. Org. Chem.* **2000**, *65*, 6293-6306.
- 80.** Synthesis and Biological Evaluation of Phosphate Analogues of 1 α ,25-Dihydroxyvitamine D₃. [Gyoonhee Han](#) *Arch. Pharm. Res.* **2000**, *23*, 206-210.
- 81.** A New Enantioselective Approach to Total Synthesis of the *Securinega* Alkaloids. Application to (-)-Norsecurinine and Phyllanthine. [Gyoonhee Han](#), Matthew G. LaPorte, Jame J. Folmer, Kim M. Werner and Steven M. Weinreb *Angew. Chem. Int. Ed.* **2000**, *39*, 237-240.
- 82.** Conceptually New Sulfone Analoues of the Hormone 1 α ,25-Dihydroxyvitamine D₃: Synthesis and Preliminary Biological Evaluation. Gary H. Posner, Qiang Wang, [Gyoonhee Han](#), Jae Kyoo Lee, Kenneth Crawford, Sarvenaz Zand, Henry Brem, Sara Peleg, Patrick Dolan and Thomas W. Kensler. *J. Med. Chem.* **1999**, *42*, 3425-3435.
- 83.** Exploratory Synthetic Studies of α -Methoxylation of Amides *via* Cuprous Ion-Promoted Decompositioon of *o*-Diazobenzamides. [Gyoonhee Han](#), Matthew G. LaPorte, Mathias C. McIntosh, Steven M. Weinreb and Masood Parvez *J. Org. Chem.* **1996**, *61*, 9483-9493.
- 84.** A New synthetic Route to 6,7-Dichloro-5,8-Quinoxalinedione and Synthesis of Its Derivatives. [Gyoonhee Han](#), Kye Jung Shin, Dong Chan kim, Kyung Ho Yoo, Dong Jin Kim and Sang Woo Park *Heterocycles* **1996**, *43*, 2495-2502.
- 85.** A Convenient Synthetic Method for Amide Oxidation. [Gyoonhee Han](#), Mathias C. McIntosh and Steven M. Weinreb *Tetrahedron Lett.* **1994**, *35*, 5813-5816.
- 86.** Stereoselective Ester Enolate Alkyltion and Hydroxylation at C-22 of Steroid Side Chain. Deukjoon Kim, [Gyoonhee Han](#) and Kwan Kim *Tetrahedron Lett.* **1989**, *30*, 1579-1580.

CURRICULUM VITAE

International Patents

1. Non-calcemic, antiproliferative, transcriptionally active sulfur-containing analogs of 1 α , 25-dihydroxy vitamin D₃. US006380408 (B1), April, 30, 2002
2. Imidazopyrimidine Derivatives and Triazolopyrimidine Derivatives as Syk Kinase Inhibitors. US06911443, June 28, 2005.
3. Novel 2-oxo-heterocyclic compounds and the pharmaceutical compositions comprising the same. ZL 2004 8 0013231.0(Chinese), Sept. 02, 2009.
4. Preparation of benzoxazoles and related compounds for inhibiting 5-lipoxygenase. US 20070066577, March 22, 2007.