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# Keun-Hang Susan Yang, Ph. D.

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**Professor, Computational Neurosciences/Biology and Biosciences**  
**Director, International Science Programs at ECHO**

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## i. Professional Overview

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Dr. Keun-Hang Susan Yang is Director of International Science Programs at ECHO (Institute for Earth, Computing, Human, and Observing) and Professor of Computational Neuroscience/Biology and Bioscience at Chapman University, where she teaches Foundations of Scientific Computation, Introduction to Application in Computational Science, and Computational Neuroscience. She holds a MS in Bioinformatics and a PhD in Computational Neuroscience/Biology from George Mason University and completed her post-doctoral fellowship in Computational Neuroscience at the Epilepsy Center, Department of Neurology, Johns Hopkins University School of Medicine (JHMI). After being in JHMI/JHU she spent several years at National Institute of Neurological Disorders (NINDS)/National Institutes of Health (NIH) to work on electrophysiology using animal models.

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## ii. Education

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### Ph.D. **George Mason University**

Fairfax, Virginia, USA

Computational Neuroscience/Biology

School of Computational Sciences

Doctor of Philosophy

**M.S. George Mason University**

Fairfax, Virginia, USA

Biology/Bioinformatics

Master of Science

**M.Ed. Ewha Womans University**

Seoul, Korea

Biochemistry/Chemistry Education

Masters of Education

**B.S. Ewha Womans University**

Seoul, Korea

Chemistry

Bachelor of Science

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### **iii. Areas of Expertise**

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- |   |                     |
|---|---------------------|
| • Computational and Experimental Biology/Neuroscience | • f-MRI modeling    |
| • Electrophysiology                                   | • Bioinformatics    |
|   | • Oriental Medicine |

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### **iv. Institutional Affiliations**

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**Institute for Earth, Computing, Human,  
and Observing (ECHO)  
Chapman University  
Director of International Science  
Programs**

February 2022 to  
Current

**Schmid College of Science and  
Technology, Chapman University  
Professor of Computational  
Neuroscience/Biology and Bioscience**

September 2008 to  
Current

**College of Science, George Mason  
University**

January 2007 to  
August 2008

**Associate Professor of Computational Neuroscience/Biology**  
**Director of International Science Collaborations**

**National Institute of Neurological Disorders and Stroke, National Institutes of Health**  
**Research Fellow**  
Developmental Neurobiology Section

December 2003 to  
December 2006

**Department of Neurology, Johns Hopkins University School of Medicine**  
**Post-Doctoral Fellow**  
Computational Neuroscience, Epilepsy Center

December 2000 to  
November 2003

**School of Computational Sciences, George Mason University**  
**Research Fellow**  
Computational Neuroscience/Biology

August 2000 to  
November 2000

**School of Computational Sciences, George Mason University**  
**Research Assistant**  
Computational Neuroscience/Biology

December 1996 to  
July 2000

**Department of Biology, George Mason University**  
**Research Assistant**  
Bioinformatics

December 1995 to  
December 1996

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## **v. Teaching/Advising Experience**

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Schmid College of Science and Technology  
Orange, CA  
Professor, BIOL498, Capstone

September 2022 to  
Current

Schmid College of Science and Technology  
Orange, CA  
Professor, BIOL343, Computational Neuroscience  
Professor, BIOL145/PHYS145  
Introduction to Application in Computational Science

January 2014 to  
Current

Schmid College of Science and Technology  
Orange, CA

September 2013 to  
December 2013

Professor, PHYS 227  
Foundations of Scientific Computation

Schmid College of Science and Technology  
Chapman University Orange, CA  
Professor, CS 599-80  
Computational Biology I & II

January 2012 to  
May 2012

Chapman University  
Orange, CA  
Advisor  
Graduate Student in Computational Science

January 2012 to  
May 2012

Schmid College of Science and Technology  
Orange, CA  
Professor, PHYS145  
Introduction to Application in Computational Science

August 2011 to  
April 2012

Schmid College of Science and Technology,  
Chapman University  
Orange, CA  
Professor, BIOL145 (1&2)  
Introduction to Application in Computational Science

August 2009 to  
August 2011

Schmid College of Science and Technology,  
Chapman University  
Orange, CA  
Professor, BIOL145 (1)  
Introduction to Application in Computational Science

February 2009 to  
May 2009

Schmid College of Science and Technology,  
Chapman University  
Orange, CA  
Co-Instruct, Frontiers of Science

September 2008 to  
December 2008

College of Science, George Mason University  
Associate Professor  
Fairfax, VA  
Co-Instructor, Scientific Databases

January 2007 to  
August 2008

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## **vi. Academic Honors/Fellowships**

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**Recognized by City of Los Angeles as a Conference  
Chair, Dare to Dream II: Shine and Fly Conference  
(Appendix 19)**

April 2017

<b>Appointed as Presidential Advisor as well as Ambassador of Ewha University in South Korea</b> (Appendix 15)	January 2015
<b>Korean-American Scientists and Engineers Association (KSEA) 2014 Outstanding Community Service Award</b> <b>Recognition of Outstanding Achievement</b> (Appendix 14)	August 2014
<b>Congressional Recognition by Congressman Ed Royce</b> <b>Serving as academic advisor as well as judge for high school Science, Technology, Engineering, and Mathematics (STEM) competition</b> (Appendix 13)	May 2014
<b>Orange County Korean Cultural Center Cultural Leadership Award</b> Presented by Congresswoman Loretta Sanchez	October 2011
<b>Orange County Korean Culture Center Cultural Center's Education Award</b>	October 2011
<b>Computational Neuroscience Annual Meeting Travel Award CNS*2003</b>	July 2003
<b>Computational Neuroscience Annual Meeting Travel Award CNS*2001</b>	July 2001
<b>Computational Neuroscience Annual Meeting Travel Award CNS*2000</b>	July 2000
<b>George Mason University Doctoral Completion Fellowship</b>	May 2000 to July 2000
<b>George Mason University Graduate Research Assistantship</b> School of Computational Sciences	September 1995 to April 2000

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## **vii. Professional Activities**

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<b>Editor of the Open Cybernetics and Systemics Journal, Reviews and Letters</b>	2000-Current
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Academic Mentor for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce	2016-2017
Academic Judge for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce	2015-2016
Academic advisor as well as judge for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce	2014-2015
Presidential Advisor as well as Ambassador of Ewha University in South Korea (Appendix 15)	2015-2017
Vice President of Korean Women Scientists and Engineers (KWiSE)	2013-2015

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## viii. Professional Activities-Public Relations

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Global Blockchain Media Platform, NFT Korea 2022 conference <a href="https://www.blockchainus.co.kr/news/articleView.html?idxno=3173">https://www.blockchainus.co.kr/news/articleView.html?idxno=3173</a> (Appendix 32)	August 2022
Buddhist Broadcasting System (BBS), Korean national TV station, Dialogue between Honorable SuBul monk and Menas Kafatos, sponsored by Dongkuk University (Episode 1) <a href="https://www.youtube.com/watch?v=eT2O4VZTocM">https://www.youtube.com/watch?v=eT2O4VZTocM</a> (Appendix 31)	August 2021
Buddhist Broadcasting System (BBS), Korean national TV station, Dialogue between Honorable SuBul monk and Menas Kafatos, sponsored by Dongkuk University (Episode 2) <a href="https://www.youtube.com/watch?v=tUmVwzOUfB4">https://www.youtube.com/watch?v=tUmVwzOUfB4</a> (Appendix 31)	July 2021
Buddhist Broadcasting System (BBS), Korean national TV station Documentary 'Science and Religion' (Appendix 30) <a href="https://www.youtube.com/watch?v=bBChU0Yi1O8">https://www.youtube.com/watch?v=bBChU0Yi1O8</a> first episode <a href="https://www.youtube.com/watch?v=XLyDiO9Z_J4">https://www.youtube.com/watch?v=XLyDiO9Z_J4</a> second episode	Feb 2020

Channel Syum, national cable television in South Korea (Channel 625) Talk Concert, 'Look Inside and Create Your Reality' (Appendix 28)	June 2019
Educational Broadcasting System (EBS) human documentary in South Korea Prime documentary, 'Skills for Relaxing' <a href="http://www.mediaus.co.kr/news/articleView.html?idxno=154617">http://www.mediaus.co.kr/news/articleView.html?idxno=154617</a>	June 2019
The Korea Times, Daily Newspaper in Los Angeles The 29 <sup>th</sup> anniversary conference of Hanmi Family Counseling Center (HFCC) in Orange County (Appendix 27) <a href="http://www.koreatimes.com/article/20190506/1246078">http://www.koreatimes.com/article/20190506/1246078</a>	May 2019
Korea Economic Newspaper and Jungang Ilbo, Daily Newspaper in South Korea (Appendix 26) <a href="http://news.hankyung.com/article/201808224558p">http://news.hankyung.com/article/201808224558p</a>	August 2018
Jungang Ilbo, Daily Newspaper in Los Angeles Hanmi Family Counseling Center (HFCC) (Appendix 25) <a href="http://www.koreadaily.com/news/read.asp?art_id=6179537">http://www.koreadaily.com/news/read.asp?art_id=6179537</a>	May 2018
Jungang Ilbo, Daily Newspaper in Los Angeles Korea University Alumni Association in Sothern California (KUAASC) (Appendix 24) <a href="http://www.koreadaily.com/news/read.asp?art_id=6174988">http://www.koreadaily.com/news/read.asp?art_id=6174988</a>	May 2018
Simin Ilbo, Daily Newspaper in South Korea Korean Academy Science and Technology (KAST) (Appendix 23) <a href="http://m.siminilbo.co.kr/news/articleView.html?idxno=555533&amp;daum_check=#_enliple#_enliple">http://m.siminilbo.co.kr/news/articleView.html?idxno=555533&amp;daum_check=#_enliple#_enliple</a>	February 2018
The SUNDAY Journal USA Moderator at Book Signing & Art Concert (Appendix 22)	January 2017
SUNDAY Times Moderator at Book Concert (Appendix 21) <a href="http://www.sundaytimes.kr/bbs/board.php?bo_table=B04&amp;wr_id=728">http://www.sundaytimes.kr/bbs/board.php?bo_table=B04&amp;wr_id=728</a>	November 2016
The Korea Times Interviewed by Journalist Mr. PanKyum Kim (Appendix 16)	May 2016

<http://www.koreatimes.com/article/20160511/987101>

**BBS TV and Newspaper in Seoul Korea**  
**As moderator on Dialogue between Science and Religion at**  
**Dongkuk University in Seoul, Korea (Appendices 17,18)**

TV: <http://news.bbsi.co.kr/news/articleView.html?idxno=723717>

Newspaper:

<http://news.bbsi.co.kr/news/articleView.html?idxno=723583>

January 2016

**The Press Release in Washington DC**  
**On Royce Announces STEM Competition Judges**

(Appendix 13)

March 2014

**The Korea Times**  
**Interviewed by Journalist Mr. Moon**

(Appendix 10)

<http://www.koreatimes.com/article/758128>

October 2012

**JungAng Daily Newspaper**  
**Interviewed by Journalist Moonho Kim**

(Appendix 8)

[http://www.koreadaily.com/news/read.asp?art\\_id=1349798](http://www.koreadaily.com/news/read.asp?art_id=1349798)

February 2012

**Culture Magazine**  
**Interviewed by Roberto Hernandez, chief editor, and article**  
**written by Paul Rogers, science writer**

(Appendix 1)

<http://ireadculture.com/2011/04/news/marijuana-chemotherapy/>

April 2011

**Prescription Marijuana Without "Intoxicating" Effect in**  
**Research Stage**  
**Orange County Register**

**Interviewed by Pat Brennan, science and environment editor**

(Appendix 2)

<http://sciencedude.ocregister.com/2010/11/17/medical-marijuana-without-the-high/114728/>

November 2010

**The Korea Times**  
**Interviewed by JongHee Lee, journalist at The Korea Times**

(Appendix 4)

<http://dc.koreatimes.com/article/628325>

November 2010

**NBC News by Josh Steiner (Appendix 3)**

November 2010

<http://www.nbclosangeles.com/news/health/Scientists-Aim-to-Make-Marijuana-Perscription-Drug-108736999.html>



<b>Chapman Happenings</b> Interviewed by Dennis Arp, Public Relations Edit <a href="http://www.nbclosangeles.com/news/health/Scientists-Aim-to-Make-Marijuana-Perscription-Drug-108736999.html">http://www.nbclosangeles.com/news/health/Scientists-Aim-to-Make-Marijuana-Perscription-Drug-108736999.html</a>	March 2010
<b>Interviewed by Dennis Arp, Public Relations Editor at Chapman Happenings (Appendix 5)</b> <a href="http://chapmannews.wordpress.com/2010/03/01/professors-research-sheds-new-light-on-medical-marijuana/">http://chapmannews.wordpress.com/2010/03/01/professors-research-sheds-new-light-on-medical-marijuana/</a>	February 2010
<b>MDLinx Web Site</b> Featured as a top-ranked journal on the Infectious Disease portal (Appendix 6) <a href="http://www.mdlinx.com/internalmdl原因/news-article.cfm/3051877">http://www.mdlinx.com/internalmdl原因/news-article.cfm/3051877</a>	September 2009
<b>Orange Country Business Journal/OC Philanthropy Advertising Supplement</b> (Appendix 7)	September 2009
<b>Asia Economy</b> Interviewed by Korean National Newspaper	July 2009
<b>Chosun Daily</b> Interviewed by Korean National Newspaper	March 2009
<b>AP, Yonhap Newspaper</b> Interviewed by Korean National Newspaper	February 2009
<b>The Korea Times</b> Interviewed by Korean National Newspaper <a href="http://dc.koreatimes.com/article/497211">http://dc.koreatimes.com/article/497211</a>	December 2008
<b>The Korea Times</b> Interviewed by Korean National Newspaper <a href="http://ny.koreatimes.com/article/494556">http://ny.koreatimes.com/article/494556</a>	August 2007
<b>Jungang Ilbo</b>	July 2007

## Interviewed by Korean National Newspaper

[http://article.joinsmsn.com/news/article/article.asp?total\\_id=2795897](http://article.joinsmsn.com/news/article/article.asp?total_id=2795897)

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### ix. Professional Activities/Services – International

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Arranged and assisted a visit KyungHee University in South Korea for a Chapman undergraduate student	December 2022
Arranged a visit to IBS in South Korea with a Chapman faculty member and undergraduate student	December 2022
Arranged a visit to Chungnam National University with a Chapman faculty member and undergraduate student	December 2022
Organized a section in NFT Korea 2022 conference and gave welcoming remarks <a href="https://www.blockchainus.co.kr/news/articleView.html?idxno=3173">https://www.blockchainus.co.kr/news/articleView.html?idxno=3173</a> (Appendix 32)	August 2022
Arranged a visit to Korean Air Force in South Korea to sign MOU on research collaborations between ECHO at Chapman and Meteorological Center at Korean Airforce	July 2022
Visited president Peggy Pelonis of American Community Schools (ACS) Athens and discussed future collaborations between ECHO at Chapman and ACS Athens	June 2022
Invited director and members of Korean Airforce to Chapman and arranged a meeting with provost at Chapman	June 2022
Organized Dialogues between Honorable SuBul monk and Menas C. Kafatos with faculty at Dongkuk University as documentary programs at Buddhist Broadcasting System (BBS), Korean national TV station (Appendix 31)	May 2021
Hosted a symposium of university professors, industry CEO'S media and finance representatives to discuss impacts of environmental and societal issues	April 2021
Arranged collaboration with Korea University for the BK21 (Brain Korea 21) project (CEESMO Director Kafatos has been invited to be a member of the international committee)	March 2021
Assisted to organize a seminar at Chungnam National University (CNU) supported by Korean government grant on climate change research collaborations between CEESMO at Chapman and CNU	March 2021

Invited to participate in faculty seminar at Division of Mechanical and Biomedical Engineering, ELTEC College of Engineering, Ewha Womans University	February 2021
Assisted in filming a documentary at Buddhist Broadcasting System (BBS) in South Korea: Chapman faculty was filmed on a prime documentary with 2 episodes called "Science and Religion" (Appendix 30)	June 2020
Hosted two undergraduate students, Moon, Juwon and Jung, Haesoo from Center for Climate/Environment Change Prediction Research at Ewha university at CEESMO, Chapman from Feb 12th 2020 to March 10 <sup>th</sup> 2020	February-March 2020
Completed MOU between CEESMO at Chapman and Center for Climate/Environment Change Prediction Research at Ewha University on agreement to permit student and faculty exchanges	January 2020
Hosted Chinese Delegation (20 people) from Nanjing University in China at CEESMO, Chapman	January 2020
Arranged signing MOU between CEESMO at Chapman and Center for Climate/Environment Change Prediction Research at Ewha University on research and student exchange collaborations	August 2019
Arranged a talk by Chapman faculty at Remote Sensing and GIS Center, Korea University	August 2019
Arranged signing MOU between Dr. Menas Kafatos and Chairman Zin-ick Son L'BESTE USA, INC. on 'New Paradigm, Meditation' (Appendix 29)	August 2019
Invited to the 9 <sup>th</sup> International Symposium on Diagnosis of Environmental Health by Remote Sensing (DEHRS) and The Workshop of DEHRS on TheBelt & Road (WDEHRS on B&R) in Zhengzhou, China	August 2019
Organized and participate as a moderator in Talk Concert 'Look Inside and Create Your Reality' at MIRAEIN Co. in Seoul Korea (Appendix 28)	June 2019
Assisted in filming a prime documentary, 'Skills for Relaxing' in January 2019, which was aired for 2 hours in June 2019 at Korean Educational Braodcasting System (EBS), South Korean educational television and radio network covering South Korean territory, and the	January and June 2019

only major South Korean radio and television network without a separate regional service

<http://www.mediaus.co.kr/news/articleView.html?idxno=154617>

Assisted and participated in the 29<sup>th</sup> anniversary conference of Hanmi Family Counseling Center (HFCC) in Orange County  
(Appendix 27)

May 2019

<http://www.koreatimes.com/article/20190506/1246078>

Arranged to visit Chungnam National University in Daejeon, South Korea

January 2019

Assisted in signing MOU between CEESMO at Chapman and Center for Applications of Spatial Information Technologies in Public Health at Institute of Remote Sensing and Digital Earth (RADI) under the Chinese Academy of Sciences (CAS) in China on research collaborations.

December 2018

Assisted in signing MOU between CESSMO at Chapman and Department of Geo-Environment Sciences at Gongju National University in South Korea on international collaborations and Korean government funding

August 2018

Assisted in organizing a special lecture/concert by Chapman faculty with musicians at QUERENCIA in Seoul Korea (Appendix 26)

August 2018

Invited as a speaker to SYMI Symposium organized by former prime minister of Greece, George Papandreou, in Rhodes, Greece

July 2018

Assisted and participated as presenter in the 28<sup>th</sup> anniversary conference of Hanmi Family Counseling Center (HFCC) in Orange County (Appendix 25)

May 2018

Assisted in hosting a lecture by Chapman Faculty at Korea University Alumni Association in Southern California (KUAASC)  
(Appendix 24)

May 2018

Assisted in organizing an award ceremony and speech by Chapman faculty at Korea Press Center hosted by Korean Academy Science and Technology (KAST) in Seoul Korea (Appendix 23)

Feb 2018

Invited as a speaker to SYMI Symposium organized by former prime minister of Greece, George Papandreou, in Crete, Greece

July 2017

Organized and hosted a young leadership conference called 'Dare to Dream II: Shine and Fly' with 5 well recognized speakers and 350 high school students, college students, and young professionals in Los Angeles area (Appendix 20)	April 2017
Hosted New York Times Bestseller 'You are the Universe; Living the Living Presence' book signing events in Seoul as well as Los Angeles with a few hundred people as a master of ceremony (Appendix 21) <a href="http://www.sundaytimes.kr/bbs/board.php?bo_table=B04&amp;wr_id=728">http://www.sundaytimes.kr/bbs/board.php?bo_table=B04&amp;wr_id=728</a>	January 2017 (LA) November 2016 (Seoul)
Appointed as mentor for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce	August 2016
Served as judge for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce	May 2016
Arranged signing of MOU between Center of Excellence in Earth Systems Modeling and Observations (CEESMO) at Chapman University and Center for Space and Remote Sensing Research at National Central University (NCU) in Taiwan	January 2016
Arranged signing of MOU between Center of Excellence in Earth Systems Modeling and Observations (CEESMO) at Chapman University and the Academia Sinica (Chinese Academy) in Taiwan	January 2016
Hosted a special lecture on "Dialogue between Quantum Mechanics and Korean Art" by Professors Menas Kafatos and Byungmo Jung in Seoul Korea	January 2016
Hosted workshop as moderator on Dialogue between Science and Religion at Dongkuk University in Seoul, Korea (Appendices 17, 18) Appointed as Presidential Advisor as well as Ambassador of Ewha University in South Korea (Appendix 14)	January 2016
Served as academic advisor as well as judge for high school Science, Technology, Engineering, and Mathematics (STEM) competition ran by Congressman Ed Royce (Appendix 13)	May 2014
Assisted scholarship programs for undergraduate students at Regional Hispanic Chamber of Commerce & Regional Hispanic Institute	May 2014

Assisted the Ballet Messiah at Wilshire Ebell Theater in LA sponsored by Ewha Womans University Alumni Association (Appendix 12)	April 2013
Organized a special lecture, "Science, Healing, and Self" by keynote speakers, Drs. Deepak Chopra and Menas Kafatos, and moderator Susan Yang at Kyung Hee University in Seoul Korea <a href="http://amsrc.khu.ac.kr/r/bbs/board.php?bo_table=bbs1&amp;wr_id=85">http://amsrc.khu.ac.kr/r/bbs/board.php?bo_table=bbs1&amp;wr_id=85</a>	March 2013
Hosted Gala dinner with a special lecture by Deepak Chopra and Menas Kafatos at Chosen Westin Hotel in Seoul Korea	March 2013
Organized a conference, "Frontiers of Applied Science & Engineering" at Chapman University (Appendix 10)	October 2012
Hosted visit of formal president of Sokang University & Catholic bishop, Dr. Hantaek Lee, in South Korea to Chapman University	July 2012
Invited as keynote speaker to Korea University Alumni Association (KUAA) seminar in LA, USA	July 2012
Hosted visit of formal minister of agriculture and president of Korea Racing Authority, Dr. Taepyung Chang, in South Korea to Chapman University	May 2012
Invited as keynote speaker to Korean Women's International Network (KOWIN) seminar in LA, USA	May 2012
Co-hosted a conference, "JOURNEY THROUGH COLLEGE & BEYOND.... Choosing the right major And Finding a dream job" at Chapman (Appendix 9)	April 2012
Hosted visit of Tae-Joo Park, President of Korea Environment Institute (KEI) to Chapman	August 2010
Invited as keynote speaker to Korean Women's International Network (KOWIN) conference in Busan, South Korea	August 2010
Hosted visit of Bae-Yong Lee, President, Ewha University, and Ewha university delegation to Chapman	July 2010
Hosted visit of Ki-Su Lee, President, Korea University, and Korea university delegation to Chapman. Arranged signing of MOU on the student exchange program between President of Korea University, and Chancellor, Chapman University	May 2010

Assisted in international conference, "Beyond Copenhagen", at Chapman	April 2010
Hosted visit of Yeul Choi, President of Korea Green Foundation to Chapman	March 2010
Assisted Korea University visit and lectures, several graduate students from Korea University and Ewha University attended training	February 2010
Participate assisted in the International Winter School, Ewha University in Pyungchang, Korea; gave lecture and seminar at the school	January 2010
Participate and assisted in the International Winter School, Ewha University in Pyungchang, Korea; gave lecture and seminar at the school	December 2009
Assisted in the participation of Chapman delegation to the International Conference on Climate Change (COP 15), Copenhagen	December 2009
Assisted in the participation of Chapman delegation to the International Conference on Climate Change Adaptation Strategies for the Asia and Pacific Region at Korea Adaptation Center for Climate Change in Korea Environment Institute	September 2009
Invited to Korean Women's International Network (KOWIN) conference in Incheon, South Korea	July 2009
Signed MOU between Laboratory of Computational Biology and Cognitive Neuroscience Laboratory at Korea University	July 2009
Assisted Korea University visit and lectures by Chapman faculty, H. El-Alaskary and M. Kafatos, and research collaboration meetings	July 2009
Assisted in the participation of Chapman delegation to the International Seminar\Conference on Desertification and Dust Storms at Korea University	July 2009
Hosted visit of Ki-Su Lee, President, Korea University, and Korea University delegation to Chapman	July 2009
Arranged MOU between President of Ewha Womans' University, and President, Chapman University	June 2009

Hosted a special lecture on acupuncture and moxibustion Schmid College of Science at Chapman University	March 2009
Arranged signing of MOU between Chancellor of Chapman University and President of Korea University	December 2008
Coordinated the second Internship programs for Korea University at GMU	March 2008
Created the first Internship programs for Korea University at GMU	March 2007
Coordinated GMU faculty to teach in summer at Korea University	July 2006
Arranged signing of MOUs between presidents of GMU and Korea, and Seoul National Universities and KAIST in South Korea	January 2006

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## x. Refereed Papers and Refereed Proceedings

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1. Isaev D, **Yang KHS**, Petroianu G, Lorke DE , Oz M (2023) Methylene Blue Inhibits Cromakalim-Activated K<sup>+</sup> Currents in Follicle-Enclosed Oocytes. **Membranes (Basel)** Jan 18;13(2):121.doi: 10.3390/membranes13020121
2. Oz M, **Yang KHS**, and Mahgoub MO (2022) Effect of cannabinoids on ligand-gated ion channels. **Frontiers in Physiology**  
<https://doi.org/10.3389/fphys.2022.1041833>
3. **Yang KHS** and Kafatos M (2022) The Role of the Exalted Mind in the Observer Observed Quantum Reality. **Medical Research Archives**  
<https://doi.org/10.18103/mra.v10i6.2865>
4. Shabbir W. **Yang KHS**, Dogar AM, Isaev D, and Oz M (2022) Probing the ubiquitination-mediated function of Epithelial Sodium Channel in A549 cells. **Curr Mol Pharmacol** doi: 10.2174/1874467215666220726112002
5. Isaev D, **Yang KHS**, Shabbir W. Howarth FC, and Oz M (2022) Capsaicin Inhibits Multiple Voltage-Gated Ion Channels in Rabbit Ventricular Cardiomyocytes in TRPV1-Independent Manner. **Pharmaceuticals**  
<https://doi.org/10.3390/ph15101187>
6. Shabbir W, **Yang KHS**, Sadek B, and Oz M (2021) Apigenin and Structurally Related Flavonoids Allosterically Potentiate the Function of Human  $\alpha 7$ -Nicotinic



7. Eslam El Nebrisi, Dietrich E. Lorke, Luke Howarth, Asma H. Alzaabi, **Yang KHS**, Frank C. Howarth, Murat Oz (2020) Capsaicin is a negative allosteric modulator of the 5-HT<sub>3</sub> receptor. **Frontiers in Pharmacology**, *Frontiers in Pharmacology* 31 August 2020 [doi.org/10.3389/fphar.2020.01274](https://doi.org/10.3389/fphar.2020.01274)
8. Shenyue Jia, Seung Hee Kim, Son V. Nghiem, **KHS Yang**, Menas C. Kafatos, (2020) Investigating the Lagged Relationship between SMAP Soil Moisture and Live Fuel Moisture in California, USA. In *IGARSS 2020-2020 IEEE International Geoscience and Remote Sensing Symposium*, 4485-4488
9. Alzaabia AH, Howartha L, Nebrisia EE, Syeda N, **Yang KHS**, Howarthc FC, Oz M (2019) Capsaicin inhibits the function of  $\alpha$ <sub>7</sub>-nicotinic acetylcholine receptors expressed in Xenopus oocytes and rat hippocampal neurons. **European Journal of Pharmacology** 857:172411.
10. Nebrisi EE, Al Kury LT, **Yang KHS**, Jayaprakash P, Howarth FC, Kabbani N, **Oz M**. (2018) Curcumin potentiates the function of human  $\alpha$ <sub>7</sub>-nicotinic acetylcholine receptors expressed in SH-EP1 cells. **Neurochem. Int.** 114:80-84.
11. El Nebrisi EG, Bagdas D, Toma W, Al Samri H, Brodzik A, Alkhlaif Y, **Yang KHS**, Howarth FC, Damaj IM, **Oz M** (2018) Curcumin Acts as a Positive Allosteric Modulator of  $\alpha$ <sub>7</sub>-Nicotinic Acetylcholine Receptors and Reverses Nociception in Mouse Models of Inflammatory Pain. **J. Pharmacol. Exp. Ther.** 365(1):190-200.
12. **Yang, KHS**, Kafatos, M.C. (2018) Geometroneurodynamics and Neuroscience. **Cosmos and History: The Journal of Natural and Social Philosophy**, vol. 14, no. 2.
13. Kafatos, M.C., **Yang, K S** (2018) The Participating Mind in the Quantum Universe, **Cosmos and History: The Journal of Natural and Social Philosophy** 14(1): 40-55.
14. Oz M, El Nebrisi EG, **Yang KHS**, Howarth FC, Al Kury LT. (2017) Cellular and Molecular Targets of Menthol Actions. **Front Pharmacol.** 8:472.
15. Sultan A, **Yang KHS**, Isaev D, Nebrisi EE, Syed N, Khan N, Howarth CF, Sadek B, Oz M. (2017) Thujone inhibits the function of  $\alpha$ <sub>7</sub>-nicotinic acetylcholine receptors and impairs nicotine-induced memory enhancement in one-trial passive avoidance paradigm. **Toxicology** 1;384:23-32.

16. Lozon Y, Sultan A, Lansdell SJ, Prytkova T, Sadek B, **Yang KHS**, Howarth FC, Millar NS, Oz M. (2016) Inhibition of Human  $\alpha 7$  Nicotinic Acetylcholine Receptors by Cyclic Monoterpene Carveol. ***Eur J Pharmacol.*** 776: 44-51.
17. Kafatos M, **Yang KHS** (2016) The Quantum Universe: the Philosophical Foundations and Oriental Medicine. ***Integrative Medicine Research, Elsevier*** 5:237-243
18. Nurulain S, Prytkova T, Sultan AM, Ievglevskiy O, Lorke D, **Yang KHS**, Petroianu G, Howarth FC, Kabbani N, Oz M. (2015) Inhibitory actions of bisabolol on  $\alpha 7$ -nicotinic acetylcholine receptors. ***Neuroscience***, 306: 91-99.
19. Murat Oz, Yosra Lozon, Ahmed Sultan, **Keun-Hang Susan Yang**, Sehamuddin Galadari (2015) Effects of Monoterpenes in Ion Channels of Excitable Cells, ***Pharmacology and Therapeutics***, 152:83-97.
20. Ali RM, Al Kury LT, **Yang KHS**, Qureshi A, Rajesh M, Galadari S, Shuba YM, Howarth FC, Oz M. (2015) Effects of cannabidiol on contractions and calcium signaling in rat ventricular myocytes. ***Cell Calcium.*** 57: 290-299.
21. Sadek B, Khanian SS, Ashoor A, Prytkova T, Ghattas MA, Atatreh N, Nurulain SM, **Yang KHS**, Howarth FC, Oz M. (2015) Effects of antihistamines on the function of human  $\alpha 7$ -nicotinic acetylcholine receptors. ***Eur J Pharmacol.*** 746:308-316.
22. Andreas Schilbach, Tatiana Prytkova, **Keun-Hang Susan Yang** (2015), The Effect of  $\Delta 9$ -Tetrahydrocannabinol, Cannabidiol, Menthol and Propofol on 5-Hydroxytryptamine Type 3 Receptors—A Computational Approach, Computational Neuroscience Meeting, ***CNS\*15*** (Suppl.).
23. Al Kury LT, Voitychuk OI, Ali RM, Galadari S, **Yang KHS**, Howarth FC, Shuba YM, Oz M. (2014) Effects of endogenous cannabinoid anandamide on excitation-contraction coupling in rat ventricular myocytes. ***Cell Calcium.*** 55:104-118.
24. Al Kury LT, **Yang KHS**, Thayyullathil FT, Rajesh M, Ali RM, Shuba YM, Howarth FC, Galadari S, Oz M. (2014) Effects of endogenous cannabinoid anandamide on cardiac  $\text{Na}^+/\text{Ca}^{2+}$  exchanger. ***Cell Calcium.*** 55: 231-237.
25. Al Kury LT, Voitychuk OI, **Yang, KHS**, Thayyullathil FT, Doroshenko P, Ramez AM, Shuba YM, Galadari S, Howarth FC, Oz M (2014), Effects of the endogenous cannabinoid anandamide on voltage-dependent sodium and calcium channels in rat ventricular myocytes, ***Br J Pharmacol.*** 2014 Jul;171(14):3485-98. doi: 10.1111/bph.12734.
26. Al Kury LT, **Yang KHS**, Thayyullathil FT, Rajesh M, Ali RM, Shuba YM, Howarth FC, Galadari S, Oz M (2014), Effects of endogenous cannabinoid anandamide

on cardiac  $\text{Na}^+/\text{Ca}^{2+}$  exchanger, *Cell Calcium*. 2014 May;55(5):231-7. doi: 10.1016/j.ceca.2014.02.017. Epub 2014 Mar 11.

27. Oz M, Al Kury L, **Yang KHS**, Mahgoub M, Galadari S (2014), Cellular approaches to the interaction between cannabinoid receptor ligands and nicotinic acetylcholine receptors, *Eur J Pharmacol*. 2014 May 15;731:100-5. doi: 10.1016/j.ejphar.2014.03.010. Epub 2014 Mar 16.
28. Al Kury LT, Voitychuk OI, Ali RM, Galadari S, **Yang KHS**, Howarth FC, Shuba YM, Oz M (2014), Effects of endogenous cannabinoid anandamide on excitation-contraction coupling in rat ventricular myocytes, *Cell Calcium*. 2014 Feb;55(2):104-18. doi: 10.1016/j.ceca.2013.12.005. Epub 2014 Jan 5.
29. Mohamed Mahgoub, **Keun-Hang S. Yang**, Abrar Ashoor, Nadine Kabbani, Lina Al Kury, Bassem Sadek, Christopher Howarth, Sehamuddin Galadari, Murat Oz (2013), Effects of cannabidiol on the function of  $\alpha 7$ -nicotinic acetylcholine receptors, *Journal of Pharmacology and Experimental Therapeutic*, 2013 Nov 15;720(1-3):310-9. doi: 10.1016/j.ejphar.2013.10.011. Epub 2013 Oct 18.
30. Abrar Ashoor, Jacob Nordman, Daniel Veltri, **Keun-Hang S. Yang**, Yaroslav Shuba, Lina Al Kury, Bassem Sadek, Frank C Howarth, Amarda Shehu, Nadine Department of Molecular Neuroscience-GMU Kabbani, and Murat Oz (2013), Menthol Inhibits 5-HT<sub>3</sub> Receptor-Mediated Currents, *Journal of Pharmacology and Experimental Therapeutic*, doi:10.1124/jpet.113.203976.
31. Jacob C. Nordman; Daniel Veltri; **Keun-Hang S. Yang**; Lina Al Kury; Yaroslav Shuba; Mohamed Mahgoub; Frank C. Howarth; Bassem Sadek; Amarda Shehu; Nadine Kabbani; Murat Oz (2013), Menthol binding and inhibition of  $\alpha 7$ -nicotinic acetylcholine receptors, *PLOS ONE*, 2013 Jul 23;8(7):e67674. doi: 10.1371/journal.pone.0067674.
32. Al Mansouri AS, Al Mansouri AS, Lorke DE, Nurulain SM, Ashor A, **Yang Keun-Hang S.**, Petroianu G, Isaev D, Oz M (2012), Methylene Blue Inhibits the Function of 7-Nicotinic Acetylcholine Receptors, *CNS Neurolo Disord Drug Targets*, 2012 Apr 4. [Epub ahead of print]
33. Murat Oz, Omar M. A. El-Agnaf, Dietrich E. Lorke, **Keun-Hang S. Yang**, Georg Petroianu, Abdu Adem (2012), On the Interaction of  $\beta$ -Amyloid Peptides and 7-Nicotinic Acetylcholine Receptors in Alzheimer Disease, *Current Alzheimer Research*, 2013 Jul;10(6):618-30.
34. Abrar Ashoor, Dietrich E. Lorke, Syed M. Nurulain, Lina Al Kury, Georg Petroianu, **Keun-Hang S. Yang**, and Oz M (2011), "Effects of Phenothiazine Class Antipsychotics on the Function of  $\alpha 7$ -Nicotinic Acetylcholine Receptors", *European Journal of Pharmacology*, 673 (Issues 1-3):25-32.

35. **Yang Keun-Hang S.**, D. Isaev, M. Morales, G. Petroianu, S. Galadari, Oz M. (2010), "The Effect of 9-tetrahydrocannabinol on 5-HT<sub>3</sub> Receptors Depends on the Current Density", **Neuroscience**, 171:41-49.
36. **Yang Keun-Hang S.**, Sehamuddin Galadari, Marisela Morales, Toni S. Shippenberg, and Oz Murat (2010), "The Nonpsychoactive Cannabinoid Cannabidiol Inhibits Human 5-HT<sub>3</sub> Receptor-Mediated Currents in Xenopus Oocytes", **Journal of Pharmacology and Experimental Therapeutic**, 333:547-554.
37. Prasad Anuup. K., **Yang Keun-Hang S.**, El-Askary Hesham. Menas., Kafatos M (2009) "Melting of major Glaciers in the western Himalayas: evidence of climatic changes from long term MSU derived tropospheric temperature trend (1979 - 2008)", **Ann. Geophys.**
38. Oz Murat, **Yang Keun-Hang S.**, Renaud Leo P, O'Donovan Michael J. (2007) Cholecystokinin B type receptors mediate a G protein-dependent depolarizing action of cholecystokinin (CCK-8s) on rodent neonatal spinal ventral horn neurons. **Journal of Neurophysiology**, 98(3):1108-14.
39. Oz Murat, **Yang Keun-Hang S.**, Dinc M, Shippenberg TS. (2007) The Endogenous Cannabinoid Anandamide inhibits cromakalim-activated K<sup>+</sup> currents in follicle-enclosed xenopus oocytes. **Journal of Pharmacology and Experimental Therapeutics**, 323(2):547-54.
40. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2005) Inhibition Modifies the Effects of Slow Calcium-Activated Potassium Channels on Epileptiform Activity in a Neuronal Network Model. Epub 2004 Dec 21. **Biological Cybernetics**, 92:71-81.
41. Oz Murat, **Yang Keun-Hang S.**, O'Donovan Michael J., Renaud Leo P (2005). Presynaptic Angiotensin II AT<sub>1</sub> Receptors Enhance Inhibitory and Excitatory Synaptic Neurotransmission to Motoneurons and other Ventral Horn Neurons in Neonatal Rat Spinal Cord. **Journal of Neurophysiology**, 94:1405-1412.
42. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2003) The Influences of Somatic and Dendritic Inhibition on the Patterns of Bursting in a Neuronal Circuit Model. **Biological Cybernetics**, 89:242-253.
43. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2003) Changing Slow Calcium-Activated Potassium Current Kinetics Influence Bursting Activity in a Model of Pyramidal Neurons. 44 (Suppl.9):194, **American Epilepsy Society Annual Meeting**, AES\*2003(Suppl.).
44. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2003) The Influence of Slow Calcium-Activated Potassium Channels on Epileptiform Activity

in a Neuronal Model of Pyramidal Cells. **Computational Neuroscience Meeting**, CNS\*03 (Suppl.).

45. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2002) The influence of Synaptic Connectivity on the Pattern of Bursting Behavior in Model Pyramidal Cells. **Neurocomputing**, 44-46:233-242.
46. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2002) The Influences of GABAA and GABAB Inhibition in Bursting Activity in a Model of Pyramidal Cells. *Epilepsia* 43 (Suppl.7):149, **American Epilepsy Society Annual Meeting**, AES\*2002(Suppl.).
47. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2002) The Effect of Changes in the Inhibitory Interneuron Connectivity on the Pattern of Bursting Behavior in a Pyramidal Cell Model. **Computational Neuroscience Meeting**, CNS\*02 (Suppl.).
48. **Yang Keun-Hang S.**, Jeanette Hellgren Kotaleski, and Blackwell K.T. (2001) The Role of Protein Kinase C in the Biochemical Pathways in Classical Conditioning. **Neurocomputing**, 38-40:79-85.
49. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2001) Synaptic Connections on the Patterns of Bursting in A Neuronal Circuit Model. *Epilepsia*, 42 (supplement 7): 38, **American Epilepsy Society Annual Meeting**, AES\*2001(Suppl.).
50. **Yang Keun-Hang S.**, Franaszczuk Piotr J., and Bergey Gregory K. (2001) The Influence of Synaptic Connectivity on the Pattern of Bursting Behavior in Model Pyramidal Cells. **Computational Neuroscience Meeting**, CNS\*2001(Suppl.).
51. **Yang Keun-Hang S.**, Blackwell K.T. (2000) Analog Pattern Matching in a Dendritic Spine Model Based on Phosphorylation of Potassium Channels. **Network: Computation in Neural System**, 11:281-297.

### **Refereed Book Chapters**

Menas C Kafatos, Heajung Lee, and Keun-Hang Yang (2014) The Non-Local Universe is the Conscious Universe, Essays on Spacetime, Evolution and Well-Being in *The Mysteries of Consciousness*.

Jafri M.Saleet., Yang Keun-Hang (2003) Chapter 3. Modeling Neuronal Calcium Dynamics, **In Computational Neuroscience**, pp 75-96.

### **Conference Proceedings**

Blackwell K.T., **Yang Keun-Hang** (1998) Analog pattern matching in a model of dendritic spines. Proceedings of ICONIP'98- Kitakyushu, Japan

### **Published Abstracts**

El Neibrish E, Alzaabi AH, Howarth L, Lorke DE, **Yang KHS**, Howarth FC, and Oz, M (2021) Noncompetitive Actions of Capsaicin on Ligand-Gated Ion Channels. 25<sup>th</sup> Health Science Centre Poster Conference P:17

Luke Howarth, Eslam El Nebrisi, Syed Nurulain, **Yang KeunHang**, Frank Howarth, Murat Oz (2016), Effect of Capsaicin on Human  $\alpha 7$ -Nicotinic Acetylcholine Receptors, European Pharmacology Society meeting

**Yang Keun-Hang**, Syed M. Nurulain, Frank C. Howart, Murat Oz (2015), CURCUMIN POTENTIATES HUMAN  $\alpha 7$ -NICOTINIC ACETYLCHOLINE RECEPTORS, SFN\*2015(Suppl.)

Andreas Schilbach, Tatiana Prytkova, **Yang Keun-Hang** (2015), The effect of  $\Delta 9$ -tetrahydrocannabinol, Cannabidiol, Menthol and Propofol on 5-Hydroxytryptamine type 3 Receptors—A Computational Approach, CNS 2015

**Yang Keun-Hang**, Syed M. Nurulain, Frank C. Howart, Murat Oz (2014), APIGENIN POTENTIATES HUMAN  $\alpha 7$ -NICOTINIC ACETYLCHOLINE RECEPTORS, SFN\*2014(Suppl.)

**Yang Keun-Hang**, D. Lorke, A. Ashoor, S. M. Nurulain, C. F. Howarth, N. Kabbani, M. Oz (2013), Menthol inhibition of human serotonin type 3 receptors expressed in xenopus oocytes, SFN\*2013(Suppl.)

**Yang Keun-Hang**, M. MAHGOUP, A. ASHOOR, C. F. HOWARTH, S. GALADARI, M. OZ (2012), Effects of cannabidiol on human 7-nicotinic acetylcholine receptors, SFN\*2012(Suppl.)

**Yang Keun-Hang**, Isaev D. S., Galadari S., Oz M. (2010), The endogenous cannabinoid anandamide inhibits the function of human serotonin transporter, SFN\*2010(Suppl.)

Isaev D.S., Mansouri A.A., Lorke D., **Yang Keun-Hang**, Hasan M., Petroianu G., Oz M. (2010), Demethylated derivatives of methylene blue inhibit the function of human 7-nicotinic acetylcholine receptors, SFN\*2010(Suppl.)

Isaeva O., Ashour A., **Yang Keun-Hang**, Nurulain S., Petroianu G., Hasan M., Oz M. (2010), Phenothiazine class antipsychotics inhibit the function of the human  $\alpha 7$ -nicotinic acetylcholine receptor, SFN\*2010(Suppl.)

**Yang Keun-Hang**, Isaev D., El-Agnaf O., Shippenberg T.S., Baumann M., Oz M. (2009), Cathinone Inhibits Dopamine Transporter Function and Cell Surface Expression, SFN\*2009(Suppl.)

**Yang Keun-Hang**, Oz Murat Dinc M., Shippenberg T.S. (2007) The endogenous cannabinoid anandamide inhibits cromakalim activated  $K^+$  currents in follicle-enclosed xenopus oocytes. SFN\*2007(Suppl.).

**Yang Keun-Hang**, Shneider N., O'Donovan M. J. (2006), Role of Muscle Spindle-Derived NT3 and ErbB2 in Monosynaptic Connections to Motoneurons in the Neonatal Mouse Spinal Cord. Society for Neuroscience Meeting, SFN\*2006(Suppl.).

**Yang Keun-Hang**, Morales M., Renaud L.P., O'Donovan M. J., and Oz M. (2005), The Effects of Cholecystokinin (CCK) on Ventral Neurons in the Spinal Cord of the Neonatal Rat and Mouse. Society for Neuroscience Meeting, SFN\*2005(Suppl.).

Jafri M.-S., Brown K, and **Yang Keun-Hang** (2005), The Influence of calcium Dynamics on the Stimulus Frequency Dependence of Slow AHP current in Nodose Neurons: A Modeling Study. Society for Neuroscience Meeting, SFN\*2005(Suppl.).

**Yang Keun-Hang**, Morales M., Renaud L.P., O'Donovan M. J., and Oz M. (2004), The Effects of Angiotensin on Ventral Neurons in the Spinal Cord of the Neonatal Rat and Mouse. Society for Neuroscience Meeting, SFN\*2004(Suppl.).

**Yang Keun-Hang**, Franaszczuk Piotr J., and Bergey Gregory K. (2002) A Neuronal Model for Repetitive Bursting Activity: Effects of Changing Inhibitory Connectivity. J. Neurosci (Suppl.).

**Yang Keun-Hang**, Jeanette Hellgren Kotaleski, and Blackwell K.T. (2000), The Role of PKC in Temporal Specificity of Classical Conditioning of Purkinje Cells. J. Neurosci (Suppl.).

**Yang Keun-Hang**, Blackwell K.T. (1999), Role of a Potassium Current in the Regulation of Calcium Spikes in Cerebellar Purkinje Cells. J. Neurosci (Suppl.) 25: 914.

**Yang Keun-Hang**, Blackwell K.T. (1998), Analog pattern matching in a dendritic spine model with voltage dependent calcium channels. J. Neurosci (Suppl.) 24: 1911.

**Yang Keun-Hang**, Blackwell K.T. (1997), Analog pattern recognition in a dendritic spine model with calcium dynamics. J. Neurosci (Suppl.) 23: 78.

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## xi. Invited Lectures

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Invited talk at School of Bioscience, Chungnam National University "The Influence of Slow Calcium-Activated Potassium Channels (sIAHP) on Epileptiform Activity in a Neuronal Network Model"	December 2022
Invited talk at School of Medicine, Kyunghee University "Methylene Blue Inhibits Cromakalim-Activated K <sup>+</sup> Currents in Follicle-Enclosed Oocytes"	December 2022
Invited talk at School of Medicine, Kyunghee University "Effect of cannabinoids on ligand-gated ion channels"	June 2022
Invited as a keynote speaker at the International Student Graduation Celebration at Chapman (Appendix 33)	May 2022
Invited as a discussant in Second International Conference on Science and God (ICSG II) on "Environmental Restoration: Hope from the Frontiers of Science"	April 2021
Invited to participate in faculty seminar at Division of Mechanical and Biomedical Engineering, ELTEC College of Engineering, Ewha Womans University	February 2021
Invited talk at department Human Machine Bio at Ewha University in South Korea on "Computer Models of the Brain II"	March 2020
Invited talk at department Human Machine Bio at Ewha University in South Korea on "Computer Models of the Brain I"	August 2019
Invited talk at Kyunghee University in South Korea on my recent paper, 'Curcumin potentiates the function of human $\alpha_7$ -nicotinic acetylcholine receptors expressed in SH-EP1 cells'	August 2019



Invited seminar at Foundation for Research and Technology-Hellas (FORTH) and the University of Crete in Heraklion Crete in Greece	July 2019
Invited to Symi Symposium 2019 in Crete, Greece for panel discussions	July 2019
Invited talk at international student mixer in conjunction with International Education Week, Sponsored by Center for Global Education and the Chapman Diversity Project at Chapman University	November 2018
Invited lecture at College of Korean Medicine, Kyung Hee University in Seoul Korea on "Curcumin Acts as a Positive Allosteric Modulator of $\alpha 7$ -Nicotinic Acetylcholine Receptors and Reverses Nociception in Mouse Models of Inflammatory Pain"	August 2018
Invited as a speaker on "Health and Technology" at SYMI Symposium organized by former prime minister of Greece, George Papandreou, in Rhodes, Greece	July 2018
Invited lecture at College of Korean Medicine, Kyung Hee University in Seoul Korea on "Cellular and Molecular Targets of Menthol Actions"	February 2018
Invited workshop as moderator on "Dialogue between Science and Religion" at Sungawon, Buddhist monk university, in Suwon, South Korea	July 2017
Invited talk at Symi Symposium organized by former prime minister of Greece, George Papandreou, on "Cyber Challenges-AI"	July 2017
Invited lecture at Korea Institute of Oriental Medicine, in Daejun, Korea on "Inhibitory Actions of Bisabolol on $\alpha 7$ -Nicotinic Acetylcholine Receptors"	August 2016

Invited talk at EMBO Workshop, Dendrites 2016, in Heraklion, Greece on “The Effect of $\Delta$ 9-tetrahydrocannabinol, Cannabidiol, Menthol, and Propofol on 5-Hydroxytryptamine Type 3 Receptors—A Computational Approach”	June 2016
Invited workshop as moderator on “Dialogue between Science and Religion” at Dongkuk University in Seoul, Korea ( <a href="#">Appendices 16, 17</a> )	January 2016
Invited special lecture as moderator on “Dialogue between Quantum Mechanics and Korean Art” by Professors Menas Kafatos and Byungmo Jung in Seoul, Korea	January 2016
Invited lecture at School of Oriental Medicine, Kyung Hee University in Seoul, Korea on “CURCUMIN POTENTIATES HUMAN $\alpha$ 7-NICOTINIC ACETYLCHOLINE RECEPTORS”	July 2015
Invited lecture at Neuroscience School of Advanced Studies, Italy on “Computational and Experimental Approaches in Neuroscience”	May 2015
Invited lecture at School of Oriental Medicine, Kyung Hee University in Seoul, Korea on “Function of 5-Hydroxytryptamine type 3 Receptors-A Computational Approach”	July 2014
Invited lecture at Multiple Sclerosis Discussion Workshops in Athens Greece	July 2014
Invited lecture at School of Oriental Medicine, Kyung Hee University Seoul Korea on “Effect of Cannabidiol on Human $\alpha$ 7-Nicotinic Acetylcholine Receptors”	January 2014
Invited lecture at UKC 2013 conference, Toward Harmonies World with Science, Technology, and Entrepreneurship	August 2013

Invited lecture at School of Oriental Medicine, Kyung Hee University Seoul Korea	July 2013
Invited Lecture, Integrative Approaches to Neurological Disorders” at School of Medicine, Ewha Womans University Seoul Korea	July 2013
Invited as Keynote speaker at SUNY Korea (Appendix10)	November 2012
Panelist at Korean Science Engineering Association Annual Conference (KSEA 2012)	September 2012
Korea University Alumni Association in LA	August 2012
Keynote speaker along with consulate general of South Korea at the special lectures organized by Korean Women's International Network	June 2012
Keynote speaker at the symposium, Korean-American Women in Science and Engineering in San Diego	June 2012
Co-hosted and invited lecture at a conference “JOURNEY THROUGH COLLEGE & BEYOND....Choosing the right major And Finding a dream job” at Chapman	May 2012
Cognitive Neuroscience Laboratory, College of Liberal Arts, Korea University, Seoul, Korea	May2012
DESE/CCCPR center, Ewha Womans University Seoul, Korea	May 2012
Title: “Linkage among Computational Sciences, earth and Environmental Sciences, Health and Life Sciences, and Economic Sciences: An Example at Chapman University”	April 2011

Co-organizer and keynote speaker at 2nd International Winter Scholl and Workshop on Climate/Environmental Change, Ewha Womans University Seoul, Korea	February 2011
Graduate School of Journalism & Mass Communication, Korea University, Seoul, Korea	November 2010
Invited keynote speaker, Korean Women's International Network (KOWIN) conference, Pusan, Korea	September 2010
Cognitive Neuroscience Laboratory, College of Liberal Arts, Korea University, Seoul, Korea	September 2010
Cognitive Neuroscience Laboratory, College of Liberal Arts, Korea University, Seoul, Korea	September 2009
School of Life Sciences and Biotechnology, Korea University, Seoul, Korea	August 2009
School of Life Sciences and Biotechnology, Korea University, Seoul, Korea	December 2008
Korea Research Institute of Bioscience and Biotechnology	December 2007
Korean-American Women in science and engineering-NIH	August 2007
Dep. of Computational Biology and Bioinformatics, George Mason University	July 2007
National Institute of Neurological Disorders and Stroke, NIH	December 2006
Division of Life Science, School of Life Sciences, Korea University, Seoul, Korea	September 2005
Korea Advanced Institute of Science and Technology, Seoul, Korea	April 2005

Division of Life Science, School of Life Sciences, Korea University, Seoul, Korea	August 2004
School of Computational Sciences, George Mason University	August 2004
Division of Life Science, School of Life Sciences, Korea University, Seoul, Korea	March 2004
National Institute of Neurological Disorders and Stroke, NIH	October 2003
Blanchette Rockefeller Neurosciences Institute, Johns Hopkins University	March 2003
Institute of Biomedical Sciences, Han Yang University, Seoul, Korea	August 2002
Korea Advanced Institute of Science and Technology, Seoul, Korea School of Computational Sciences, George Mason University	July 2002
Department of Biomedical Engineering, School of Medicine Seoul National University, Seoul, Korea	May 2002
Department of Computer Engineering, School of Medicine, Seoul National University Seoul, Korea	December 2001
Department of Physics, College of Natural Sciences, Chungbuk National University Chungju, Korea.	December 2001
Frontiers in Mathematical and Computational Biology Conference 2001 University Texas at Dallas	December 2001
Department of Biology, Seoul National University, Seoul, Korea	July 2001
Department of Biomedical Research, Korean National Institute of Health Seoul, Korea	December 2000

College of Medicine, Ewha Womans  
University, Seoul, Korea

February 2000

Department of Biology, College of Natural  
Sciences, Ewha Womans University Seoul,  
Korea

January 1999

**“Appendix Available Upon Request”**