

OGAN GUREL MD MPhil

I serve as **Chief Strategy Officer** for the next-generation cancer diagnostics and therapeutics company, CTCells as well as hold academic appointments as a **Visiting Professor** at the Solbridge International School of Business and DGIST (Daegu Gyeongbuk Institute of Science & Technology), with previous DGIST positions as **Vice-Chair & Distinguished Invited Professor** in the Management of Innovation program. In the innovation world, I am **Chief Marketing Officer** for Eidware / SoundMind (Seoul), **Advisor** for the CREST-Malaysia Digital Health Cluster and a **Venture Partner** at The Yozma Group, with previous executive roles as **Chief Medical Officer** for Psomagen USA (a division of MacroGen), **Chief Scientific Officer** for FRT – Field Robot Technology, **CEO** at NovumWaves (Seoul), **Acting Chief Medical Officer** at Nessa Hearing (Singapore), and **Advisor** at Frasen (Seoul). I also hold additional academic appointments as **Honorary Fellow** at the University of Melbourne and as **Visiting Professor** at the Libera Accademia Belle Arti in Italy. Previously, I was **Chief Innovation Officer** at Campus D, a Seoul-based startup incubator/Fab Lab and served over four years as a **Director** in the CTO office (MOT & Open Innovation groups) at the Samsung Advanced Institute of Technology (SAIT). My over 35 years of experience spans multiple sectors: biomedical science, clinical medicine, strategy consulting, marketing, business development, executive management, marketing, and R&D management, with domain expertise in medical devices, digital healthcare, healthcare IT, molecular biophysics, and medical imaging. Prior to surgical training at the Massachusetts General Hospital, I obtained an **MD degree Alpha Omega Alpha** from Columbia University, also doing graduate work in structural biology (**M.Phil degree**) and earned a **Bachelor's in Biochemical Sciences cum laude** from Harvard College. Authoring 14 peer-reviewed scholarly papers, presenting nearly 200 conference proceedings and co-inventor on ten patent applications (four granted), I have given keynote addresses and other speeches at business and scientific conferences and seminars worldwide.



ACADEMIC & SCIENTIFIC My research focuses on protein electrostatics as applied to terahertz medicine as a basis for novel diagnosis and therapies. While at **Harvard University**, in the research group of Prof. Martin Karplus (2013 Nobel Prize in Chemistry), I conducted research on DNA structure with Dr. Michael Weiss combining molecular dynamics simulations with NMR data. After graduating, I served as a Visiting Researcher at the **Institut Laue-Langevin (ILL)** in Grenoble conducting neutron diffraction-based analyses of bacteriorhodopsin membrane protein structure with Dr. Giuseppe Zaccai. I also earned an MPhil degree in Biochemistry & Molecular Biophysics from **Columbia University** where my graduate research involved x-ray crystallographic structural studies of cytokines in the laboratory of Prof. Wayne Hendrickson at which time I won honorable mention for the **American Crystallographic Association (ACA)** Linus Pauling Poster Prize. I also conducted research in computer science (microprocessor software development systems), winning 3rd place in the national **Westinghouse (Intel) Science Talent Search**, followed by robotics research at the **IBM T.J. Watson Research Center** (with Dr. Russell Taylor) and at **Harvard's Aiken Computation Laboratory** (with Prof. Thomas E. Cheatham). I have taught a variety of subjects—cellular and molecular biology, neuroanatomy, bioinformatics, mathematical modeling, technology marketing, fundamentals of innovation, bioelectromagnetics—at the **Columbia University College of Physicians & Surgeons, Harvard Medical School, and Roosevelt University**, among other institutions. I am currently a Visiting Professor at both the **Solbridge International School of Business** and **DGIST** (previously Distinguished Invited Professor & MOI Vice-Chair) with other appointments as Honorary Fellow at the **University of Melbourne**, Visiting Professor at the **Libera Accademia Belle Arti** (Brescia) and previously Adjunct Associate Professor of Bioengineering at the **University of Illinois–Chicago**. I was Editor-in-Chief of Premedical Programs at Gunner Training (now **Firecracker**) leading a team developing a next-generation (adaptive learning) MCAT prep system. Most recently, at **SAIHST (Samsung Medical Center)**, **Singapore-Stanford Biodesign (A*Star)**, **National University of Singapore (NUS)**, **LABA (Brescia)**, **ESSEC Business School**, and **Auckland University of Technology (AUT)**, as well as corporate programs at J&J, AXA, and Allianz, I have taught the Mini-MD, an intensive 2-day overview of medicine. I have presented research seminars at leading institutions worldwide including the **Korea Atomic Energy Research Institute (KAERI)**, **Ohio State University**, **Electronics and Telecommunications Research Institute (ETRI)**, **University of Southampton** (Optoelectronics Research Centre), **Okinawa Institute of Science & Technology (OIST)**, **Nanyang Technological University (NTU)**, **Oxford University**, **University of Bristol**, **University of Melbourne**, **KAIST**, **Intellectual Ventures**, **NASA**, **University of Texas–Dallas**, **Columbia University**, **National University of Singapore (NUS)**, **Institut Pasteur Korea**, **DGIST**, **Seoul National University**, **Middle Eastern Technical University (METU)**, **Hong Kong University of Science & Technology (HKUST)** and many others. My research has been published in the peer-reviewed scientific literature including in *EMBO Journal*, *Journal of Molecular Biology*, *Small*, *Lab Chip*, *IEEE Transactions on Terahertz Science & Technology*, *Infrared Physics & Technology*, *Analytical Chemistry*, and *The Journal of Diabetes Science & Technology*.

BUSINESS In addition to advising numerous startups globally, I was the Founder and Chief Executive Officer of **NovumWaves, Ltd.**, a new venture focusing on advancing biomedical terahertz applications. Previously, as Chief Innovation Officer at **CampusD** and Senior Advisor for Innovation at **DRB Holdings**, I supported the startup portfolio and existing business units in all things related to innovation as well as new product and service initiatives, assisting also with strategy, idea generation, and outside partnerships with funding sources and research institutions. While at the **Samsung Advanced Institute of Technology (SAIT)**, I participated in a wide range of projects including developing **Samsung's** healthcare technology strategy in the fields of medical imaging, robotics, neuromorphic computing, mobile healthcare, and new medicines. I also worked in technology sourcing and sensing as well as supporting broader company-wide sales and marketing efforts in healthcare. Previously at the **Aesis Group**, I served as Chief Executive Officer at **Duravest, Inc**—a publicly traded holding company focusing on convergent medical technologies. At that time, I had served as a Juror in the **Medical Device Innovation Awards (MDEA)** as well as a Judge in the New Venture Business Plan Competition at the **University of Chicago School of Business**. As VP and Medical Director at **Sg2, LLC** – a leading healthcare intelligence think-tank and consultancy serving hospitals and health systems – I directed research teams providing thought leadership on topics such as, Surgical Services, Cancer Care, Cardiovascular Services, Procedure Centers, Imaging, Outpatient Care, Neurosciences & Orthopedics, Payment & Finance, ICU, Emergency Depts, Hospital of the Future, Diabetes, and Asthma. Most notably, I was the principal architect and developer of the industry-leading Impact of Change™ healthcare utilization forecasting system based on a unique differential equation model integrating demographic, sociocultural, financial and technology drivers to predict change. While at Sg2 I also served as clinical lead for strategy consulting projects at hospitals nation-wide, supported marketing and business development (helping to drive sales from startup to nearly \$12M in three years) and represented the company for any clinical-facing functions. Prior to Sg2, I served at the blue-chip management consultancy **Booz, Allen & Hamilton** engaged in a number of strategy projects for Fortune 500 healthcare, Biopharma and MedTech clients. During that time, I completed the firm's mini-MBA program for advanced degree professionals. I have provided consultation to many medical device firms, specifically with European (EMEA) and FDA clinical trial development, monitoring and oversight.



CLINICAL On the clinical side, I received my M.D. with honors (*Alpha Omega Alpha*) from the **Columbia University College of Physicians & Surgeons (P&S)** and completed surgical internship at the **Massachusetts General Hospital** with a joint appointment as Clinical Fellow in Surgery at the **Harvard Medical School** and passed all three levels of the U.S. Medical Boards. I am also experienced in international medical relief work having served during the Kosovo **NATO** military campaign (**International Medical Corps**) and the 1999 earthquake in Turkey. I continue to teach worldwide the Mini-MD, a comprehensive two-day overview of all of medicine for healthcare professionals. Locations taught include South Korea (**Samsung SAIT, Allianz, AXA, SKKU-Samsung Medical Center**), Singapore (**NUS, ESSEC Business School, AXA**), New Zealand (**AUT**), Australia, Italy (**LABA**), and the United States (**Samsung Research America**).



THE WALL STREET JOURNAL

The Boston Globe



THOUGHT LEADERSHIP & MEDIA As a noted healthcare technology expert and futurist, I have given keynote speeches worldwide, addressing emerging technologies, mobile healthcare, the future of healthcare, R&D strategy and innovation. My commentaries have appeared in prominent publications, including the *Wall Street Journal* and I was a regular columnist for *Midwestbusiness.com*, the Midwest's leading tech newsletter. I have hosted several **InTimeTV** series, including *Insights in Medicine*, *Eye on Harvard*, and *Nanotech Today* and have appeared on many radio and television programs including **EBS, TBS eFM, Channel News Asia, and Arirang TV**. I have contributed a health & wellness column for *Seoul Magazine* and also authored a novel, a 21st century version of *Faust*, called *Waves*. A screenplay / teleplay is currently in progress.



OGAN GUREL MD MPhil*Curriculum Vitae***EDUCATION AND TRAINING¹**

UNDERGRADUATE			
DATES ATTENDED	INSTITUTION & LOCATION	DEGREE RECEIVED & YEAR	DISCIPLINE & ADVISOR
1982 – 1986	Harvard University Cambridge, MA	A.B. 1986 <i>cum laude</i> ²	Biochemical Sciences Prof. Martin Karplus Dr. Michael Weiss
GRADUATE			
1989 – 1994	Columbia University New York, NY	M.Phil. 1991	Biochemistry & Molecular Biophysics Prof. Wayne Hendrickson
1987 – 1996	Columbia University College of Physicians & Surgeons New York, NY	M.D. 1996 (<i>AQA</i>) ³	Medicine
POST-GRADUATE			
1996 – 1997	Massachusetts General Hospital Boston, MA		Surgery Internship
1997 – 1999	Massachusetts General Hospital Boston, MA		Neurosurgery Residency (Junior)

¹ For more information about scientific labs I have trained at, please see WeLabz: <https://www.welabz.com/user/100383791/labs>

² Senior thesis title at Harvard: “Structure Refinement of GTG and GAG B-DNA 14-mers with NOE Interproton Distance Constraints”

³ *Alpha Omega Alpha* Medical Honor Society

WORK EXPERIENCE⁴

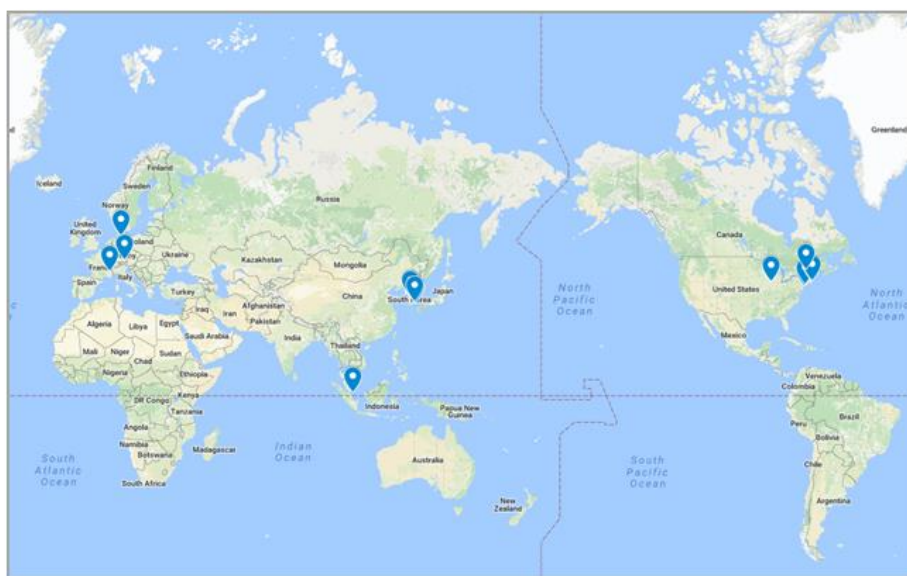
DATES	INSTITUTION	LOCATION	POSITION
2020 – present	CTCells Inc	Daegu, South Korea	Chief Strategy Officer
2020 – present	Solbridge International School of Business (Woosong University)	Daejeon, South Korea	Visiting Professor
2019 – present	The Yozma Group	Seoul	Venture Partner Link
2020 – 2020	Psomagen USA (Macrogen)	Rockville, MD & Seoul	Chief Medical Officer
2019 – 2020	FRT Field Robot Technology Inc	Seoul / Daegu	Chief Scientific Officer
2019 – present	DGIST (Daegu Gyeongbuk Institute of Science & Technology) College of Transdisciplinary Studies	Daegu, South Korea	Visiting Teaching Professor
2018 – present	Eidware Inc (SoundMind)	Seoul	Chief Marketing Officer Link
2018	DGIST Department of Emerging Materials Science	Daegu, South Korea	Joint Adjunct Professor (겸임교수) Link (behind DGIST firewall)
2017 – 2018	DGIST Management of Innovation (MOI) Program	Daegu	Distinguished Invited Professor - (Link1 & Link2) & Vice Chair
2016 – 2018	NovumWaves Ltd	Seoul	Founder and Chief Executive Officer

⁴ Work experience is listed here in *reverse* chronological order. All other listings are chronologically listed. Clinical (residency) experience is listed under the Education section.

DATES	INSTITUTION	LOCATION	POSITION
2016 – 2017	Nessa Pte Ltd	Singapore	Chief Medical Officer (Acting) - (Link)
2016 – 2018	Posture360 Inc	Seoul	Chair of the Global Advisory Board
2015 – 2016	Campus D (On assignment from DRB – see below)	Seoul	Chief Innovation Officer
2015 – 2016	DRB Holdings Ltd	Busan, South Korea	Senior Advisor for Innovation (이사 - 기술혁신자문역)
2010 – 2015	Samsung Advanced Institute of Technology (CTO Office) MOT Research Center & Open Innovation Group	Suwon, South Korea	Director (부장)
2005 – 2010	Aesis Group LLC	Chicago	Principal
2007 – 2008	InTimeTV	Chicago	Producer & Host
2006 – 2008	Midwestbusiness.com	Chicago	Columnist
2005 – 2006	Duravest Inc	Chicago, Montreal, & Munich	Chief Executive Officer Link
2001 – 2004	Sg2 LLC	Evanston, Illinois	Vice President & Medical Director
2001	Booz Allen Hamilton	Chicago	Associate
1997 – 2000	Gurel Advisory Various projects (Confluent Surgical , for example)	Boston & Kiel, Germany	Independent Consultant

DATES	INSTITUTION	LOCATION	POSITION
1991 – 1997	MCAT Intensive Review / QR_x Publishing	New York	President
1987	Institut Laue Langevin (ILL)	Grenoble, France	Visiting Researcher
1986 – 1987	Polygen Corporation	Waltham, Massachusetts	Computational Chemist
1983	IBM Corporation T.J. Watson Research Labs	Yorktown Heights, New York	Research Associate
1982	New York University Courant Institute of Mathematical Sciences	New York	Instructor Summer Program in Computer Science (Prof. Henry Mullish)
1982	New York University Courant Institute of Mathematical Sciences	New York	Researcher Division of Magnetofluid Dynamics (Prof. Jacob Schwartz)

PLACES WORKED



ACADEMIC & PROFESSIONAL APPOINTMENTS AND POSITIONS

DATES	INSTITUTION	POSITION
1982	New York University Courant Institute of Mathematical Sciences	Instructor Taught the intensive computer science course for high school students under Prof. Henry Mullish. Lectured on basic programming (Basic, Fortran, introductory Assembly language, Lisp) as well as principles of software development and software engineering.
1982	New York University Courant Institute Robotics Laboratory	Research Assistant Helped set up a new Robotic Systems Research Laboratory headed by Prof. Jacob T. Schwartz.
1983	IBM T.J. Watson Research Center Yorktown Heights Research Center	Research Associate Worked with Dr. Russell Taylor (Robotics Research Lab) to develop a high-level robotics programming language interfacing with AML.
1984	Harvard University Department of Cellular & Developmental Biology	Research Assistant Researched coated vesicles (clathrin) in the laboratory of Prof. Daniel Branton.
1985 – 1986	Harvard University Department of Chemistry	Research Assistant Worked with 2013 Nobel Laureate Prof. Martin Karplus (with Dr. Michael Weiss) on NMR & NOE-constrained molecular dynamics simulations of DNA ⁵ .
1987	Institut Laue-Langevin Grenoble, France Laboratory of Dr. Giuseppe Zaccai	Visiting Researcher Developed Fourier map programs to facilitate analysis and interpretation of neutron diffraction data on selectively deuterated bacteriorhodopsin 2-D crystals. Jointly wrote JMB paper with Drs. Giuseppe Zaccai (ILL), Jean-Luc Popot (Institut Pasteur), and Don Engelman (Yale) describing the first sequence-structure helix mapping for this molecule. Gave presentations on the molecular biology of diabetes and on molecular dynamics methodologies. Performed molecular dynamics calculations (using CHARMM) on bacteriorhodopsin (with Michel Ferrand).
1989 – 1994	Columbia University College of Physicians & Surgeons	Teaching Fellow Taught Biochemistry, Physiology & Neural Science
Summer 1989	Columbia University College of Physicians & Surgeons Center for the Study of Society & Medicine	Research Associate Worked with Prof. David Rothman on the “History of Special Hospitals” in support of policy studies relating to the development of specialized clinical facilities for the then rapidly growing HIV/AIDS epidemic

⁵ Senior thesis title: “Structure Refinement of GTG and GAG B-DNA 14-mers with NOE Interproton Distance Constraints”

DATES	INSTITUTION	POSITION
1996 – 1999	Harvard Medical School	Clinical Fellow in Surgery
1996 – 1999	Harvard College Mather House	Non-resident Pre-Medical Tutor <ul style="list-style-type: none"> • Advised pre-medical students • Wrote recommendations
2001 – 2005	Roosevelt University Department of Biology	Adjunct Professor , courses taught included: <ul style="list-style-type: none"> • Cell & Molecular Biology • Mathematical Modeling in the Life Sciences • Introduction to Bioinformatics • Introduction to Health & Medicine
2007 – 2008 (2014 Alternate)	Medical Design Excellence Awards	Juror (Link + PDF)
2007 – 2010	University of Illinois – Chicago Department of Bioengineering	Adjunct Associate Professor of Bioengineering (Link)
2008	University of Chicago New Venture Challenge Business Plan Competition	Judge
2012 – 2015	Samsung Advanced Institute of Health Sciences Technology (SAIHST) Sungkyunkwan University (SKKU)	Visiting Professor (초빙교수) Taught the SAIT-SAIHST Mini-MD from 2012 – 2014
2014 – present	American Association of Physicists in Medicine (AAPM) Task Group No. 260 “Considerations for the Use of Handheld Devices for Viewing Medical Images”	Non-Voting Member (Link)
2015 – present	University of Melbourne Department of Electrical & Electronic Engineering	Honorary Fellow Centre for Neural Engineering
2015 – present	Korea Business Leaders Alliance (KBLA)	Innovation Ambassador (Link) Linking KBLA members with the wider technology, startup & innovation community in Korea

DATES	INSTITUTION	POSITION
2015 – 2018	Libera Accademia Belle Arti (LABA)	Visiting Professor Master “Re-Design Medicine” program (Link)
2016 – 2018	Frasen Inc.	Advisor (Link)
2016	World Citizens Organization (Seoul)	Communications Director
2016 – 2018	Posture360 (Seoul)	Chair of the Global Advisory Board
2016 – present	Titan Advanced Energy Solutions, Inc.	Advisor
2017 – 2018	Galen Growth Asia (GGA)	• Member of the Clinical Advisory Board (Link)
2017 – 2018	DGIST (Daegu Gyeongbuk Institute of Science & Technology)	Distinguished Invited Professor Management of Innovation Program (Link1 & Link2 & Link3); Teaching • Technology Marketing Fundamentals of Innovation
2018	DGIST	Vice-Chair Management of Innovation Program (Link – behind DGIST firewall)
2018 – 2020	Open Innovation Academy at SOlTmC	Professor
2018	DGIST	Adjunct Professor (Joint) – (겸임교수) Department of Emerging Materials Science (Link – behind DGIST firewall)
2019 – present	DGIST	Visiting Teaching Professor School of Transdisciplinary Studies, Undergraduate College
2019 – present	ASIALICS (Asia Association of Learning, Innovation and Coevolution Studies)	Board Member Two-year term
2019 – present	CREST Malaysia Digital Healthcare Cluster	Member of the Healthcare Advisory Panel Two-year term (Link)

DATES	INSTITUTION	POSITION
2020 – present	ELDEX	Advisory Board Member (Link)
2020 – present	Solbridge International School of Business	Visiting Professor

BOARD SCORES & EXAMINATIONS

DATES	EXAM	SCORE
1989	National Board of Medical Examiners (NBME) Part I	Passed 745/96
1995	US Medical Licensing Exam (USMLE) Step 2	Passed 225/87
1997	US Medical Licensing Exam (USMLE) Step 3	Passed 218/87

TEACHING EXPERIENCE

DATES	INSTITUTION	POSITION & DESCRIPTION
Summer 1981	New York University Courant Institute for Mathematical Sciences	Guest Lecturer Taught a series of lectures on APL for the special summer program in computer science at the Courant Institute of Mathematical Sciences.
Summer 1982	New York University Courant Institute for Mathematical Sciences	Instructor Taught intensive computer science course for high school students. Taught basic programming (including Basic, Fortran, introductory Assembly language and Lisp) as well as principles of software development and software engineering.
1984 – 1985	Harvard University Bureau of Study Counsel	Tutor Various subjects including <ul style="list-style-type: none"> ▪ Introductory Biology, ▪ General Chemistry, ▪ Organic Chemistry, ▪ Introductory Biochemistry, and ▪ General Physics.
1991 – 1997	MCAT Intensive Review (New York City; Princeton, NJ; Boston, MA; Kansas City, MO)	President & Principal Instructor Developed a high-level MCAT preparation course; marketed the course nation-wide teaching more than 600 students in NYC, Princeton (NJ), Boston and the Midwest. For three years, I served the official MCAT prep provider for Princeton University .
1995 – 1996	Columbia University College of Physicians & Surgeons	Teaching Fellow in Neural Sciences Taught medical students basic neurosciences and neuroanatomy
1996 – 1999	Harvard College Mather House	Non-resident Pre-medical Tutor
1997	Harvard Medical School	Teaching Fellow in Neuroanatomy
1996 – 1998	Harvard Medical School Massachusetts General Hospital	Clinical Fellow in Surgery Supervising HMS medical students
2002 – 2004	Sg2, LLC	Guest lecturer at several academic institutions including Northwestern University and Rush University.

DATES	INSTITUTION	POSITION & DESCRIPTION
2001 – 2005	Roosevelt University Department of Biology	Adjunct Professor Taught “Cell & Molecular Biology,” “Mathematical Modeling in the Life Sciences,” “Introduction to Bioinformatics,” and “Introduction to Health & Medicine.”
2010	Gunner Training (now Firecracker)	Editor-In-Chief & Senior Author Premedical (MCAT) Programs
2011 – 2013	Samsung Advanced Institute of Technology (SAIT)	Instructor: SAIT Mini-MD 20 session review of preclinical and clinical sciences Taught three times
2012 – 2014	Samsung Advanced Institute of Health Sciences Technology (SAIHST)	Visiting Professor: SAIHST Mini-MD 20 session review of preclinical and clinical sciences Taught four times
Feb 2013	Samsung Research America (SRA – Silicon Valley)	Instructor SAIT-SRA Micro-MD 1 ½ day medicine review
July 2013	Samsung Research America (SRA - Dallas)	Instructor SAIT-SRA Micro-MD 1 ½ day medicine review
Aug 2015	National University of Singapore (NUS)	Instructor Mini-MD; one-day course - Link
Aug 2015	Singapore-Stanford Biodesign (SSB)	Instructor Mini-MD; one-day course - Link1 & Link2
Oct 2015	Startup HealthTech & Peak15 (Melbourne)	Instructor Mini-MD; one-day course - Link1 & Link2
Mar 2016	Libera Accademia Belle Arti (LABA University in Brescia, Italy)	Visiting Professor Mini-MD; four-day course - Link1 & Link2
Apr 2016	Singapore Mini-MD	Instructor: two-day program - Link

DATES	INSTITUTION	POSITION & DESCRIPTION
Apr 2016	Mini-MD at Samyang Holdings	Instructor: one-day program
Jul 2016	Singapore Mini-MD	Instructor: two-day program - Link
Aug 2016	Singapore-Stanford Biodesign (SSB)	Instructor Mini-MD; one-day course - Link1 & Link2
Oct 2016	Seoul Mini-MD	Instructor: One-day course - Link
Jan 2017	Allianz Life Mini-MD	Instructor: In-house Corporate Mini-MD; one-day course
Feb 2017	Singapore Mini-MD	Instructor: Two-day program - Link
Feb 2017	Auckland Mini-MD (Auckland University of Technology – AUT)	Instructor Two-day program - Link
May 2017	AXA Mini-MD (Singapore)	Instructor: In-house corporate Mini-MD; two-day course
Sep – Dec 2017	DGIST (Daegu Gyeongbuk Institute of Science & Technology) (MOI Program)	Distinguished Invited Professor Teaching “ Technology Marketing ” in the Management of Innovation Program (Graduate School: 3 credits & Venture Leader)
Aug 2017	ESSEC Business School Mini-MD (Singapore)	Instructor Two-day course – Link
Jan 2018	ESSEC Business School Mini-MD Master’s in Management of Health Industries Program (Singapore)	Instructor Three-day course (academic credit)
Jan 2018	AXA Direct Mini-MD (Seoul)	Instructor In-house corporate Mini-MD; two-day course

DATES	INSTITUTION	POSITION & DESCRIPTION
Feb 2018	J&J Mini-MD (Singapore)	Instructor In-house corporate Mini-MD; two-day course
Mar 2018	ESSEC Business School Mini-MD (Singapore)	Instructor Two-day course – Link
Mar – Jun 2018	DGIST (Daegu Gyeongbuk Institute of Science & Technology) (MOI Program)	Distinguished Invited Professor Teaching “ Technology Marketing ” in the Management of Innovation Program (Graduate School: 3 credits)
Mar – Jun 2018	DGIST (MOI Program)	Distinguished Invited Professor Teaching “ Foundations of Innovation ” in the Management of Innovation Program cross-registered with the College of Transdisciplinary Studies (Undergraduate school: 3 credits)
Aug 2018	DGIST Mini-MD (BicSpin & Department of Emerging Materials Sciences)	Instructor & Adjunct Professor In-house Mini-MD; three-day course
Sep – Dec 2018	DGIST (MOI Program)	Distinguished Invited Professor Teaching “ Technology Marketing ” in the Management of Innovation Program (Graduate School: 3 credits & Venture Leader)
Mar – Jun 2019	DGIST (School of Undergraduate Studies)	Visiting Teaching Professor Teaching “ Principles and Applications of Bioelectromagnetics ” (2 credits)
Sep – Dec 2019	DGIST (School of Undergraduate Studies)	Visiting Teaching Professor Teaching “ Fundamentals of Innovation ” (2 credits)
Mar – Jun 2020	DGIST (School of Undergraduate Studies)	Visiting Teaching Professor Teaching “ Principles and Applications of Bioelectromagnetics ” (2 credits)
Mar – Jun 2020	Solbridge International School of Business	Visiting Professor Teaching “ Principles of Marketing ” and “ Strategic Creativity for Innovation ”

DATES	INSTITUTION	POSITION & DESCRIPTION
Sep – Dec 2020	DGIST (School of Undergraduate Studies)	Visiting Teaching Professor Teaching “ The Unity of Science & Art ,” a convergence course based on the book Waves .
Sep – Dec 2020	Solbridge International School of Business	Visiting Professor Teaching “ Fundamentals of Innovation ,” “ Principles of Marketing ”

SPECIAL PROFESSIONAL ACTIVITIES

Dates	Institution & Location	Description
1996	Massachusetts General Hospital BLS & ATLS certification Boston, Massachusetts	Passed Basic Life Support (BLS) and Advanced Life Support (ATLS) courses and certification
1999	International Medical Corps Skopje, Macedonia	Staff physician: provided patient care, logistical support and supervisory work in the refugee camps in Macedonia during the NATO military campaign in Kosovo.
2001	Intensive German Course Frankfurt, Germany	3-week intensive, immersion course.
2001	Booz-Allen Presentation Skills Chicago, IL	One-week intensive course covering presentation skills and public speaking development.
2001	Booz-Allen Mini-MBA Zurich, Switzerland	Two-week intensive course covering economics, microeconomics, business cycle theory, accounting, corporate finance, international business and other topics.
2003	Sg2 Presentation Skills course Evanston, IL	Three-day intensive course.
2009	Walk 4 Healthcare Chicago to Washington, DC	Walked 700 miles from Chicago to Wash, DC for healthcare reform, collecting and publishing stories along the way. (Link)
2011 – 2013	Samsung Electronics Korean Language classes Giheung & Suwon, South Korea	Passed Intermediate (Level 3) of the Test of Proficiency in Korean (TOPIK) examination.
2012	Samsung Electronics Global Leadership Academy (GLA) Suwon, Korea	Executive leadership training program.

2014 – 2019	American Association of Physicists in Medicine (AAPM) Task Group 260	“Considerations for the Use of Handheld Devices for Viewing Medical Images” Non-Voting Member (Link)
2016 – present	European Commission – EU Gateway Project Senior Target Market Expert in Healthcare & Medical Technologies Sector	Evaluation of EU company applications in the Healthcare & Medical Technologies sector for participation in the EU Gateway mission to Korea

HONORS & AWARDS

Dates	Award	Institution
1979 – 1981	Columbia University Science Honors Program (SHP)	Selective Program for High School students (Link)
1982	National Merit Finalist	National Merit Scholarship (Link)
1982	NY State Regents Diploma	State University of New York (Link)
1982	Westinghouse Science Talent Search 3rd Place (\$10,000 Scholarship)	Westinghouse Science Talent Search (Link1 & Link2 & Link3 & Link4)
1982	Student Honoree	American Academy of Achievement (Link)
1982	IBM TJ Watson Scholar	IBM Corporation
1982 – 1986	Dean’s List all semesters	Harvard College
1985	Varsity (Major “H”) Letter	Harvard University, Department of Athletics
1986	<i>cum laude</i> in Biochemical Sciences	Harvard University Dept of Biochemistry & Molecular Biophysics
1987 – 1999	Medical Scientist Training Program (MSTP) Awardee and scholarship	National Institutes of Health (Link) Medical Scientist Training Program (MSTP)
1988	First HIV Center Symposium Poster Competition Special Prize	New York State Psychiatric Institute
1994	Pauling Poster Prize honorable mention	American Crystallographic Association (Link)
1995	<i>Alpha Omega Alpha</i>	<i>Alpha Omega Alpha</i> medical honor society (Link)
1996	Sciarra Prize for Excellence in Neurology	Columbia University College of Physicians & Surgeons (Link)
2011	United States Congress citation Rep. Dennis Kucinich: “In Honor of Dr. Ogan Gurel”	<i>Congressional Record</i> – 6 Jan 2011 (Link)

RESEARCH INTERESTS

- Protein Electrodynamics & Terahertz Medicine; Terahertz – Bio interactions
- The Relationship between Technology and Corporate Structures: Evolution of the “Theory of the Firm” in the 4th Industrial Revolution
- Core Principles of Innovation & Marketing; Innovation in Education

MAJOR PUBLICATIONS & PRESENTATIONS⁶

REFEREED ARTICLES (PEER-REVIEWED)

Popot JL, Engelman DM, **Gurel O**, Zaccari G, (1989), “Tertiary structure of bacteriorhodopsin. Positions and orientations of helices A & B in the structural map determined by neutron diffraction.” *J Mol Biol.* **210**(4):829-47 [Link](#)

Jiang X, **Gurel O**, Mendiaz EA, Stearns GW, Clogston CL, Lu HS, Osslund TD, Syed RS, Langley KE, Hendrickson WA, (2000), “Structure of the active core of human stem cell factor and analysis of binding to its receptor Kit,” *EMBO J.* **19**(13):3192-203. [Link](#)

Gurel O, (2008) “Diabetes: Medical vs. Surgical Disease?” *Journal of Diabetes Science and Technology*, **2**(1):135. [Link1](#) & [Link2](#)

Brewer J, and **Gurel O**, (2009), “Nanomedicine: Issues of Privacy and Informed Consent,” *Nanotechnology Law & Business*, **6**:45. [Link](#)

Kim MS, Sim TS, Kim YJ, Kim SS, Jeong H, Park JM, Moon HS, Kim SI, **Gurel O**, Lee SS, Lee JG, Park JC, (2012), “SSA-MOA: a novel CTC isolation platform using selective size amplification (SSA) and a multi-obstacle architecture (MOA) filter,” *Lab Chip*; **12**(16):2874-80. [Link](#)

Kim MS, Kim J, Lee W, Cho S-J, Oh J-M, Lee J-Y, Baek S, Kim YJ, Sim TS, Lee HJ, Jung G-E, Kim S-I, Park J-M, Oh JH, **Gurel O**, Lee S-S, Lee J-G, (2013), “A Trachea-inspired Bifurcated Microfilter Capturing Viable Circulating Tumor Cells via Altered Biophysical Properties as Measured by Atomic Force Microscopy,” *Small*; **9**(18):3103-10. [Link](#)

⁶ Google Scholar: <https://scholar.google.com/citations?user=xMsk9jEAAAAJ&hl=en> (<http://bit.ly/2TTIGCR>)

ResearchGate: https://www.researchgate.net/profile/Ogan_Gurel (<http://bit.ly/2NPUNJP>)

Scopus Author Profile: <https://www.scopus.com/authid/detail.uri?authorId=16184933600> (<http://bit.ly/2UyZ4DR>)

Korea Research Information (KRI): <https://www.kri.go.kr/kri2>; KRI # 12413427

Kim MS, Jo S, Park JT, Kim SS, Kang HT, **Gurel O**, Park SC, (2015), "A New Method to Purify and Analyze Heterogeneous Senescent Cell Populations Using a Novel Microfluidic Filter with Uniform Fluidic Profile," *Anal. Chem*; **87**(19):9584–9588. [Link](#)

Park KJP, Lee K, Lee JH, Kang B, Shin C-W, Woo J, Kim J-S, Suh Y, Kim S, **Gurel O**, Ryu H, (2015) "Computationally Efficient, Real-time Motion Recognition Based on Bio-Inspired Visual and Cognitive Processing," *ICIP*, 932-935. [Link1](#) & [Link2](#)

Yeo W-G, **Gurel O**, Srinivasan N, King PD, Nahar NK, Park S, Lehman N, Sertel K, (2017), "Terahertz Imaging and Electromagnetic Model of Axon Demyelination in Alzheimer's Disease," *IEEE Transactions on Terahertz Science and Technology*, **7**(6), August 30. [Link1](#) & [Link2](#)

Yeo WG, **Gurel O**, Hitchcock CL, Park SC, Sertel K, Nahar NK, (2019) "Evaluation of Cancer Tissue Morphology via THz Spectroscopic Imaging: Human Lung and Small Intestine Malignancies," *Infrared Physics & Technology*, **97**:411-416, March. [Link1](#) & [Link2](#)

Guak TH, Wang MJ, Shin DJ, Kang JH, **Gurel O**, (2019) "Efficacy of a Multimodal Cognitive Training Program on Older Adults with Cognitive Impairments: A Pilot Study," *2019 International Conference of Korea Dementia Association IC-KDA 2019*. [Link](#)

Gurel O, Kim J-H (2019) "The historical development and ascendancy of family-owned business conglomerates in Korea (chaebol) as an adaptation to cultural transaction costs: Implications for new models of startup-driven innovation," *ASIALICS 2019*. [Link](#)

Badano A, **Gurel O**, *et al*, (2019) "Considerations for the Use of Handheld Image Viewers: a summary of AAPM TG260 recommendations," *In Preparation*.

Shin HY, Lee SJ, Seo HW, Kim MY, Intisar A, Yea K, Cho SC, Lee Y-I, Park SC, **Gurel O**, van Noort D, Kim MS (2019) "A novel cell seeding technology for microarray-based quantitative human primary skeletal muscle cell analysis," *Anal. Chem.* **91**(22):14214-14219 [Link](#).

Kim HS, Choi H, Flores MC, Razzaq A, Gwak YS, Ahn D, Kim MS, **Gurel O**, Lee BH, In SI (2020) "Noble Metal Sensitized Invasive Porous Bioelectrodes: Advanced Medical Device for Enhanced Neuronal Activity and Chronic Alcohol Treatment," *In preparation*.

Woo HW, Kim W-H, Lee SJ, Kang H-G, Intisar A, Shin HY, **Gurel O**, Kim MS, (2020) "Electrical Stimulation-based Enhancement of Peripheral Nerve Regeneration via Intracellular Ca²⁺ Control," *In preparation*.

Authors to be determined + **Gurel O**, Kim MS, (2020) "CCM-CTC: Continuous Centrifugal Microfluidic System for Fully-Automated Negative Depletion Based Isolation of Heterogeneous Circulating Tumor Cells," *In preparation*.

Gurel O & Altan H, (2020) "Advances in Terahertz Spectroscopy of Biological Macromolecules," *Applied Sciences*, *In preparation*.



Gurel O & Altan H, (2020) "Tryptophan as a Biomarker in Breast and Colon Carcinoma using Terahertz Spectroscopy," Book Chapter in: *Biophotonics, Tryptophan and Disease*, *In preparation*.


Elzwawy A, Pişkin H, Akdoğan N, Volmer M, Reiss G, Marnitz L, Moskaltsova A, **Gurel O**, and Schmalhorst J-M, (2020) "Current trends in planar Hall effect sensors: evolution, optimization and application," *In preparation*.

RECENT & UPCOMING PRESENTATIONS, WORKSHOPS & SEMINARS (2011 – PRESENT)⁷
“Protein Electrodynamics and the Terahertz gap,” Korea Atomic Energy Research Institute (KAERI Seminar) , Daejeon, South Korea, 24 Oct 2012.
“Perspectives on the Future of Healthcare,” Gananan Forum , Seoul, 5 Nov 2012.
“Unique Challenges in Healthcare Innovation,” SAIT MOT Forum , Giheung, South Korea, 9 Nov 2012.
“THz Medicine: A New Frontier?” 3rd WCI Symposium , WCI-2012, Seoul, 15 Nov 2012. Link
“Global Perspectives on the Future of Healthcare,” KAIST College of Business , Seoul, 20 Nov 2012.
“Protein Electrodynamics & Terahertz Medicine: A New Frontier?” University of Southampton, Optoelectronics Research Centre Seminar , Southampton, 3 Dec 2012. Link
Gurel O , Park J, Ryu SE, (2013) “Terahertz spectroscopy of methemoglobin: implications for novel medical imaging and therapeutics,” SPIE Photonics West “Terahertz and Ultrashort Electromagnetic Pulses for Biomedical Applications,” San Francisco, 7 Feb 2013. Link
“Protein Electrodynamics: Possibilities for Next-generation THz-based Medical Diagnosis and Treatment,” Ohio State University, ElectroScience Laboratory, IEEE AP-MTT Chapter Seminar , Columbus, Ohio, 11 Feb 2013. Link
“Protein Electrodynamics & Terahertz Radiation: The Future of Medicine?” 4th THz-Bio Workshop , Seoul National University, Seoul, 15 Feb 2013. Link1 & Link2
“Protein Electrodynamics: A Revolution in Medical Diagnosis & Therapy,” Samsung R&D America , Dallas, 31 Jul 2013.
“Protein Electrodynamics: Possibilities and Challenges in Terahertz Medicine,” Electronics and Telecommunications Research Institute (ETRI) , Daejeon, South Korea, 3 Apr 2013.
Yeo WG, Nahar NK, Hitchcock CL, Park SC, Gurel O , Sertel K, “Real-time THz Imaging of Human Tissue Characteristics and Cancer Margins,” IRMMW-THz 2013 , Mainz, Germany, 5 Sep 2013. Link
Lewis RJ, Lim EL, Rowe DJ, Alam S, Nilsson J, Baik CW, Gurel O , Wilkinson JS, Richardson DS, “High-Resolution Broadly-Tunable MOPA-Based Terahertz Spectrometer to Non-Destructively Probe and Modulate Protein Electrodynamics,” IRMMW-THz 2013 , Mainz, Germany, 5 Sep 2013. Link
Gurel O and Pastreich E, “Seoul as a Mecca for the Creative Class in the 21 st Century,” 10 Magazine Book Club and The Asia Institute , Lecture & Panel, Seoul, 14 Sep 2013. Link & BusinessKorea
Lewis RJ, Lim EL, Rowe DJ, Alam S, Nilsson J, Baik CW, Gurel O , Wilkinson JS, Richardson DS, “Terahertz Spectroscopy to Non-Destructively Probe and Modulate Protein Electrodynamics: Fundamental Basis for THz Medicine,” Bioelectrics 2013 , Karlsruhe, 19 Sep 2013. Link1 & Link2

⁷ For items without an author listed, **Gurel O** is the sole author / presenter.

<p>"eHealth Trends," Seoul Tech Society, Seoul, 16 Mar 2014. Link</p>
<p>"mHealth and Sensors," 4th Mobile & Wearable Technology Healthcare 2014, Singapore, 4 April 2014. Link</p>
<p>Samsung-Telstra "Create & Innovate" Digital Healthcare Workshop, Melbourne, 16 May 2014.</p>
<p>"E-Health & the Revolution in Healthcare," International Federation of Health Plans, Biennial Conference, Madrid, 20 May 2014. Link</p>
<p>Yeo WG, Nahar NK, Hitchcock CL, Park SC, Gurel O, Sertel K, "THz Spectroscopy and Imaging of Major Human Organ Tissues for Cancer Margin Assessment," 2014 IEEE International Symposium on Antennas and Propagation, Memphis, Tennessee, 8 Jul 2014. Link</p>
<p>"Art & Culture in the U.S. and Korea," 3rd U.S. Studies Seminar, Dinner speech and Talk Concert, Seoul, 26 Aug 2014. Link</p>
<p>Yeo WG, Nahar NK, Hitchcock CL, Lehman NL, Park SC, Gurel O, Sertel K, "THz Imaging of Alzheimer's Disease: Spectroscopic Differentiation Between Normal and Diseased Tissues," Tucson, Arizona, IRMMW-THz 2014, 16 Sep 2014. Link</p>
<p>"Nursing in the Mobile Health Era," HIMSS APAC14: Singapore, 16 Sep 2014. Link</p>
<p>"mHealth and Paradigm Shifts in Healthcare," HIMSS APAC14, Singapore, 17 Sep 2014. Link1 & Link2</p>
<p>"Protein Electrodynamics & Terahertz Medicine: A New Frontier?" Okinawa Institute of Science & Technology, Okinawa, Japan, 11 Aug 2014.</p>
<p>"Protein Electrodynamics & Terahertz Medicine," Martin Karplus Celebration Symposium, San Francisco, 30 Sep 2014. Link</p>
<p>"Protein Electrodynamics and Terahertz Medicine," French-Singaporean workshop on Technologies and Applications of ultra-high frequency nano-systems, Nanyang Technological University, Singapore, 16 Oct 2014. Link</p>
<p>"The Role of Universities in Korea for the Prospective Global Leaders," Panel Discussion, U.S. Embassy – Kyunghee University, 5 Nov 2014.</p>
<p>"The Digital Health Revolution and Paradigm Shifts in Medicine," Bringing State-of-the-Art Innovation to the Treatment of Allergies, Bali, Indonesia, 14 Nov 2014.</p>
<p>"The Digital Health Revolution and Paradigm Shifts in Medicine," National Health IT Summit 2015, Singapore Ministry of Health Holdings, Singapore, 7 Jan 2015.</p>
<p>"Protein Electrodynamics and Terahertz Medicine," University of Oxford, Department of Engineering Science, Oxford, 9 Feb 2015.</p>

<p>“Digital Healthcare and Paradigm Shifts in Medicine,” Digital Health Assembly Open Innovation Conference, Cardiff, 10 Feb 2015. Link &  & Interview</p>
<p>“Protein Electrodynamics and Terahertz Medicine,” University of Bristol, School of Chemistry, Bristol, 12 Feb 2015. Link1 & Link2</p>
<p>Victorian State Government Digital Healthcare workshop, Melbourne, 26 Feb 2015.</p>
<p>“KBLA What’s Next Seminar: The Digital Healthcare Revolution and Paradigm Shifts in Medicine,” Korea Business Leaders Alliance, Seoul, 17 Mar 2015. Link & BusinessKorea</p>
<p>“Innovation and Marketing,” (Marketing Management – GPT 5007 Guest Lecture) Sungkyunkwan University GSB, Seoul, 21 April 2015.</p>
<p>“eHealth and Innovation – The Future of Medicine,” Seoul Tech Society [STREAM], Seoul, 9 May 2015. Link</p>
<p>“The Future of Medicine: Protein Electrodynamics,” 2015 Electrical and Computer Engineering Graduate Student Symposium, National University of Singapore (NUS), Singapore, 13 May 2015. Link & </p>
<p>“Protein Electrodynamics & Terahertz Medicine,” Nanyang Institute of Technology in Health and Medicine (NITHM) Tissue Engineering Program Seminar, Nanyang Technological University (NTU), Singapore, 15 May 2015.</p>
<p>“The Structure and Function of Innovation,” KBLA Breakfast Business School: Innovation, Korean Business Leaders Alliance, Seoul, 4 Jun 2015. Link</p>
<p>“The Future of Medical Imaging: Protein Electrodynamics & Terahertz Medicine,” Iljin Holdings & Alpinion Medical Systems Executive Briefing, Seoul, 30 Jun 2015.</p>
<p>Gurel O, Yeo W-G, Nahar NK, Lehman NL, Kim MS, Park S, Sertel K, “THz Spectroscopic Response of Brain Tissue Exhibiting Alzheimer’s Disease,” 2015 IEEE International Symposium on Antennas and Propagation, Vancouver, 24 Jul 2015. Link</p>
<p>“NUS Mini-MD: Understanding Medical Science,” National University of Singapore (NUS), NUS Institute for Engineering Leadership, Singapore, 20 Aug 2015. Link</p>
<p>“Singapore-Stanford Biodesign Mini-Medical School,” Singapore-Stanford Biodesign (SSB), SSB Innovation Class, Singapore, 22 Aug 2015. Link</p>
<p>“Biophysics of Musculoskeletal Function: Implications for Next-Generation Robotic Technologies,” DRB – Campus D Workshop, Seoul, 2 Sep 2015.</p>
<p>“On Innovation,” Power Lecture Autumn Series, Suwon, South Korea, 12 Sep 2015. Link</p>
<p>“On Innovation,” Campus D (Kent Foreign School), Seoul, 23 Sep 2015. Link</p>

<p>“The Future of Medicine: Protein Electrodynamics & Terahertz Medicine,” Intellectual Ventures & Intellectual Ventures Lab, Seattle, 28 Sep 2015.</p>
<p>Park KJP, Lee K, Lee JH, Kang B, Shin C-W, Woo J, Kim J-S, Suh Y, Kim S, Gurel O, Ryu H, “Computationally Efficient, Real-time Motion Recognition Based on Bio-Inspired Visual and Cognitive Processing,” IEEE International Conference on Image Processing, Montreal, 30 Sep 2015. Link</p>
<p>Cross, G, Gautam A, Grant D, Palte B, Lu V, Gurel O, “Panel Discussion: Developments in China’s rapidly evolving healthcare investment landscape,” Australia Biotech Invest 2015, Melbourne, 7 Oct 2015. Link</p>
<p>“Protein Electrodynamics & Terahertz Medicine,” University of Melbourne, Centre for Neural Engineering, Melbourne, 8 Oct 2015.</p>
<p>“The Melbourne Mini-MD Program,” Startup HealthTech & Peak15, Melbourne, 10 Oct 2015. Link1, Link2 & </p>
<p>“Digital Healthcare and Paradigm Shifts in Medicine,” HIMSS-APAC Webinar, Singapore, 29 Oct 2015. Link</p>
<p>“Protein Electrodynamics & Terahertz Medicine,” KAIST, Daejeon, South Korea, 3 Nov 2015.</p>
<p>“Protein Electrodynamics & Terahertz Medicine,” Konyang University Department of Biomedical Engineering Seminar, Daejeon, South Korea, 3 Nov 2015.</p>
<p>“On Innovation,” Kent Foreign School Annual Dinner, Seoul, 6 Nov 2015.</p>
<p>“On Innovation,” Seoul Scholars International, Seoul, 26 Nov 2015.</p>
<p>“On Innovation,” Association of IIT Alumni in South Korea (Dinner Address), Seoul, 6 Dec 2015.</p>
<p>“Plenary Talk: Disruptive Innovation for Health Care,” Asia Pacific Medtech Forum 2015 (APACMed), Singapore, 11 Dec 2015. Link</p>
<p>Boey F (Moderator), Gurel O, Feng PH, Nair H, Occhipinti O, “Nurturing Local Innovation in Asia,” Asia Pacific MedTech Forum 2015, Singapore, 11 Dec 2015. Link</p>
<p>“Bioinspired Concepts in Rubber Technology,” DRB Executive Seminar, Busan, 17 Dec 2015.</p>
<p>“Executive Mini-MD,” DRB Executive Seminar, Busan, South Korea, 18 Dec 2015.</p>
<p>“Digital Healthcare and Paradigm Shifts in Medicine,” Samsung C&T presentation to Singapore MOHH and other hospital representatives, Seoul, 23 Feb 2016.</p>
<p>“Disruptive Innovation & the Future of Healthcare,” Bio Healthcare Association, Daejeon, South Korea, 29 Feb 2016. Link1 & Link2</p>

<p>“Wearables in Sports and Medicine,” Wylab, Chiavari, Italy, 16 Mar 2016. Link1, Link2, Link3 & </p>
<p>“On Innovation,” Hippie-Korea: Power Lecture Spring Series, Suwon, South Korea, 19 Mar 2016. Link</p>
<p>Gurel O and De Salaberry J, “Workshop D: Biotech start-up Bootcamp,” BioAsia Pharma Convention 2016, Singapore, 22 Mar 2016. Link</p>
<p>“Digital Healthcare and Paradigm Shifts in Medicine,” Afternoon session Chair 11th Asia Conference on Healthcare and Health Insurance, Singapore, 22 Mar 2016. Link</p>
<p>“Starting up a Biotech Company,” Nanyang Technological University Renaissance in Engineering Program (REP), Singapore, 23 Mar 2016.</p>
<p>“On Innovation”, Samsung Global New Hires Orientation, Yongin, South Korea, 7 Apr 2016.</p>
<p>“Protein electrostatics and THz medicine: An update,” 7th THz-Bio Workshop, Seoul, 8 Apr 2016. Link + BusinessKorea</p>
<p>“Singapore Mini-MD,” TalentGrid Ventures, Singapore, 14 – 15 Apr 2016. Link</p>
<p>“Samyang Mini-MD,” Samyang R&D Center, Daejeon, South Korea, 19 Apr 2016.</p>
<p>“Disruptive Innovation in Healthcare,” Asia Biotech Invest, Hong Kong, 6 May 2016. Link</p>
<p>“The Magic and Mystery of Mozart’s Requiem,” Camarata Music Company Pre-Concert Lecture, Seoul, 7 May 2016. Link</p>
<p>“Innovation & Entrepreneurship,” Yonsei University, Incheon, South Korea, 19 May 2016.</p>
<p>“English is the Global Language of Scientific and Academic Publishing,” OSIA (Open Standards and Internet Association) Workshop, Seoul National University, Seoul, 15 Jul 2016. Link</p>
<p>“Future Trends in Global Healthcare,” KOHI (Korea HRD Institute for Health &Welfare) special seminar, Seoul, 16 Jul 2016.</p>
<p>“Singapore Mini-MD,” TalentGrid Ventures, Singapore, 18 – 19 Jul 2016. Link</p>
<p>“Digital Healthcare and Paradigm Shifts in Medicine,” Innovating Care: Healthcare to Wellcare Asia Pacific 2016, Singapore, 20 Jul 2016. Link</p>
<p>“Overview of Medical Science,” Seoul National University Center for THz-Bio Application Systems Annual Retreat, Gapyeong, South Korea, 11 Aug 2016.</p>
<p>“Introduction to Academic Publishing,” 2016 KoSFoST (Korean Society of Food Science and Technology) International Symposium and Annual Meeting, Daegu, South Korea, 17 Aug 2016 Link1 & Link2</p>


<p>“Translational Teaching & Research: Key Success Factors with a Focus on Developing Countries,” 1st Transmed-Vietnam Conference, Ho Chi Minh City Medicine and Pharmacy University, Ho Chi Minh City, Vietnam, 19 Aug 2016. Link1 & Link2</p>
<p>“Singapore-Stanford Biodesign Mini-Medical School,” Singapore-Stanford Biodesign (SSB), SSB Innovation Class, Singapore, 20 Aug 2016</p>
<p>“How to Overcome Barriers to Innovation,” Panel Moderator, NASA Cross Industry Innovation Summit, Space Center Houston, 20 Sep 2016. Link</p>
<p>“Terahertz Medicine: Bridging Astrophysics and Biology ... From the Big Bang to the Bedside,” Pop Talk, NASA Cross Industry Innovation Summit, Space Center Houston, 20 Sep 2016. Link</p>
<p>“Stories from the Frontlines of Innovation: Interdisciplinary Research, Cross-Industry Collaboration, and Terahertz Medicine,” KAIST Graduate School of Nanoscience and Technology (GSNT) Colloquium, Daejeon, South Korea, 29 Sep 2016. Link</p>
<p>Panel Moderator: “Solutions for an Ageing Society,” EU Research & Innovation Day, Seoul, 4 Oct 2016. Link</p>
<p>“Creativity & Innovation,” Gukje Forum, Keimyung University, Daegu, South Korea, 7 Oct 2016. Link1 & Link2</p>
<p>“Protein electrodynamics and THz medicine: new applications,” 2016 Texas Analog Center of Excellence Symposium, University of Texas – Dallas, 17 Oct 2016. Link</p>
<p>“Introduction to Academic Publishing,” Yonsei University seminar, Seoul, 24 Oct 2016. Link</p>
<p>“Introduction to Academic Publishing,” Korea University seminar, Seoul, 26 Oct 2016. Link</p>
<p>“Introduction to Academic Publishing,” Ulsan National Institute of Science and Technology (UNIST), Ulsan, South Korea, 28 Oct 2016. Link</p>
<p>“Introduction to Academic Publishing,” Hanyang University seminar, Seoul, 1 Nov 2016. Link</p>
<p>“NovumWaves: The Future of Medicine,” Lutronic R&D Center, Seoul, 11 Nov 2016.</p>
<p>“Creativity & Innovation,” Kent Foreign School Annual Dinner, Seoul, 11 Nov 2016.</p>
<p>Gurel O, Thai M, Wei SY, Panel: “Business Innovations: Planning for Disruptive Solutions and Revising Business Models in Response to Consumer Demand in an Ageing Population,” Innovating Care: Elderly Care & Home Care, Singapore, 24 Nov 2016. Link</p>
<p>“Korea’s Lifesciences Ecosystem,” Ontario Business Mission to the Republic of Korea, Seoul, 1 Dec 2016. Link</p>
<p>“Allianz Life Mini-MD,” Allianz Life, Seoul, 18 Jan 2017.</p>


<p>“Some Thoughts on Developing a World-Class Research Institute,” Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, South Korea, 19 Jan 2017.</p>
<p>“Dealing with Journal Rejection,” Catholic Kwandong University College of Medicine, Incheon, South Korea, 3 Feb 2017</p>
<p>“Singapore Mini-MD,” TalentGrid Ventures, Singapore, 14 – 15 Feb 2017. Link</p>
<p>“Auckland Mini-MD,” Auckland University of Technology (AUT), Auckland, New Zealand, 20 – 21 Feb 2017. Link</p>
<p>Conference Chair (1st day), 2nd Asia Conference on Big Data and Analytics for Insurance, Singapore, 23 Feb 2017. Link</p>
<p>“Protein Electrodynamics and Terahertz Medicine,” Columbia University College of Physicians & Surgeons, Department of Biochemistry and Molecular Biophysics Seminar, New York, 3 Mar 2017.</p>
<p>“Protein Electrodynamics and Terahertz Medicine,” Nanyang Technological University School of Biological Sciences (SBS), Singapore, 20 Mar 2017. Link1 & Link2</p>
<p>Conference Chair (Day 2), 12th Asia Conference on Healthcare and Health Insurance, Singapore, 21 Mar 2017. Link</p>
<p>Gurel O (Panel moderator), Richter M, Krishna R, Tomar A, Wang L, “Asia pharma perspective in driving innovation,” BioPharma Asia Convention 2017, Singapore, 23 Mar 2017. Link</p>
<p>Conference Chair (Leadership Track – Day 2), BioPharma Asia Convention 2017, Singapore, 23 Mar 2017. Link</p>
<p>NovumWaves Company Presentation, BioPharma Asia Convention 2017, Singapore, 23 Mar 2017. Link</p>
<p>“Protein Electrodynamics and Terahertz Medicine,” BIGHEART / NUS Seminar, Singapore, 24 Mar 2017. Link1 & Link2</p>
<p>“Protein Electrodynamics & Terahertz Medicine: A New Paradigm in Bioelectronics and Electromagnetic Medicine,” Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, South Korea, 12 Apr 2017. Link</p>
<p>“A Career in Healthcare & Innovation,” Yongsan International School of Seoul Career Day, Seoul, 13 Apr 2017. Link</p>
<p>“Machine Learning in Digital Health & What it Means for Insurance,” 1st Asia InsurTech Summit, Singapore, 26 Apr 2017. Link1 & Link2</p>
<p>“Protein Electrodynamics & Terahertz Medicine: A New Paradigm in Biomedical Imaging,” Singapore Bioimaging Consortium (SBIC) – A*STAR, Singapore, 26 Apr 2017. Link1 & Link2</p>

<p>“AXA Mini-MD,” AXA University, Singapore, 31 May – 1 Jun 2017.</p>
<p>“Digital Healthcare and Paradigm Shifts in Medicine,” Digital Healthcare Innovation Conference (Keynote), Singapore, 5 Jul 2017. Link</p>
<p>“Artificial Intelligence & Machine Learning in Digital Healthcare,” Digital Healthcare Innovation Conference, Singapore, 5 Jul 2017. Link</p>
<p>“The Future of R&D,” ESSEC Executive Advanced Masters in Strategy & Management of Health Industries Program, 6 Jul 2017.</p>
<p>“New Developments in Protein Electrodynamics & Terahertz Medicine,” KAIST Nano Integrated Circuit Expertise (NICE) seminar, Daejeon, South Korea, 21 Jul 2017. Link</p>
<p>“Trends in Digital Healthcare: How it is Changing Medicine,” DGIST Grand Challenge Forum, Daejeon, South Korea, 1 Aug 2017.</p>
<p>“Technology Revolutions: Past, Present and Future,” Singapore Medical Association FutureMed 2017 Conference (Keynote), 24 Aug 2017. Link1 & Link2</p>
<p>Panel Discussion (with Dr. Paul Grundy and Dr. Yeh Woei Chong, moderator), Singapore Medical Association FutureMed 2017 Conference, 24 Aug 2017. Link</p>
<p>“The Logic of Medicine: How Doctor’s Think,” Singapore Medical Association FutureMed 2017 Conference – Public Symposium, 26 Aug 2017. Link</p>
<p>“An Open Innovation Plan for ElderCare Robot Research & Commercialization,” DGIST Grand Challenge Forum, 15 September 2017, Daegu, South Korea.</p>
<p>“Albert Einstein: Scientific Genius or Marketing Genius,” DGIST MOI Seminar, Daegu, South Korea, 28 Sep 2017. Link</p>
<p>“Energy vs. Matter: The Future of Medicine,” Forum della sanità – Forum Leopolda, Florence, Italy, 30 Sep 2017. Link1 & Link2 & Link3</p>
<p>“Lectio magistralis: The Future of Biopharma,” Menarini Executive Workshop, Florence, Italy, 2 Oct 2017.</p>
<p>“How the Digital Healthcare and the 4th Industrial Revolution is Changing Medicine,” PharmAccess Foundation & Joep Lange Institute, Amsterdam, 5 Oct 2017. [On-site visit replaced with teleconference due to weather-related flight cancellations.]</p>
<p>“The Future of Robotics and Healthcare: Global and South Korean perspectives,” Robosteam, Helsinki, Finland, 10 Oct 2017. Link1, Link2 & Link3</p>

<p>“Competitive Advantage in Robotics: South Korea Case Study,” Robosteam Executive Seminar ‘17, Helsinki, Finland, 11 Oct 2017. Link1, Link2 & Link3</p>
<p>“ESSEC Mini-MD,” ESSEC Business School – Asia Pacific Executive Education, Singapore, 13 – 14 Nov 2017. Link</p>
<p>“The Future of Medicine & Healthcare: Implications for the Insurance Industry,” CPIC-Allianz Workshop, Shanghai, 5 Dec 2017.</p>
<p>“The Chaebol business model as an early adaptation to open innovation challenges,” Open Innovation Academy at DGIST, Daegu, South Korea, 6 Dec 2017.</p>
<p>“ESSEC Mini-MD,” ESSEC Business School – Asia Pacific (Master’s program course), Singapore, 9,11 & 13 Jan 2018.</p>
<p>“AXA Direct Mini-MD,” AXA Direct, Seoul, 18 – 19 Jan 2018.</p>
<p>“Protein Electrodynamics & Terahertz Medicine,” University of Hawaii at Manoa, Department of Chemistry Biochemistry Seminar, Honolulu, 22 Jan 2018.</p>
<p>“J&J Mini-MD,” Johnson & Johnson, Singapore, 19 – 20 Feb 2018.</p>
<p>“New Developments in Protein Electrodynamics & Terahertz Medicine,” Seoul National University Department of Chemistry Seminar, Seoul, 16 Mar 2018. Link</p>
<p>“ESSEC Mini-MD,” ESSEC Business School – Asia Pacific Executive Education, Singapore, 26 – 27 Mar 2018. Link</p>
<p>“Proteins & Biomagnetics,” Annual Meeting of the Korean Magnetics Society, Samcheok, South Korea, 30 Mar 2018. Link</p>
<p>“New Developments in Protein Electrodynamics & Terahertz Medicine,” School of Biological Sciences, Nanyang Technological University (NTU), Singapore, 30 Apr 2018.</p>
<p>“The Future of Electroscience in the 4th Industrial Revolution,” Electroscience Laboratory, The Ohio State University, Columbus, OH, 14 May 2018.</p>
<p>“The Landscape of Bioelectromagnetics: Opportunities and Challenges,” Center for Bio Convergence Spin System 2nd International Symposium, Daegu, South Korea, 1 Jun 2018</p>
<p>“DGIST Mini-MD,” DGIST BiCSpin & Department of Emerging Materials Science, Daegu, South Korea, 7 – 9 Aug 2018.</p>

<p>“Protein Electrodynamics & Terahertz Medicine,” Institut Pasteur Korea, Pangyo, South Korea, 24 Aug 2018.</p>
<p>“The Future of Health & Beauty,” Hebe Launch Dinner, Seoul, 4 Oct 2018.</p>
<p>“Keynote Presentation: New Approaches in Neurological Diseases: from the Digital to the Electronic,” International Conference on Neurovascular and Neurodegenerative Diseases (NVND-2018), Tokyo, 15 Oct 2018. Link</p>
<p>“Terahertz imaging and electromagnetic model of axon demyelination in Alzheimer’s disease,” International Conference on Neurovascular and Neurodegenerative Diseases (NVND-2018), Tokyo, 15 Oct 2018. Link</p>
<p>“The Future of Medicine,” Invited Lecture, EST 202: Introduction to Science, Technology, and Society Studies course, SUNY–Korea, Songdo, South Korea, 18 Oct 2018.</p>
<p>“The Cross-Innovation Future of Medicine,” Cross-Industry Innovation Summit, Brescia, Italy, 17 Nov 2018. Link1 & Link2</p>
<p>“eHealth and Innovation – The Future of Medicine,” SKKU Department of Interaction Science seminar, Seoul, 26 Nov 2018. Link</p>
<p>“The Future of DGIST: The Need for Bold Action,” DGIST Convergence Research Seminar, Daegu, South Korea, 27 Nov 2018.</p>
<p>“The Future of Medicine: Terahertz Medicine,” DGIST Electrodynamics course – special lecture, Daegu, South Korea, 28 Nov 2018.</p>
<p>“Albert Einstein: Marketing Genius or Scientific Genius,” SUNY–Korea Department of Technology & Society seminar, Songdo, South Korea, 3 Dec 2018. Link1 & Link2</p>
<p>“Bioelectromagnetics: An Overview of the Field with a Focus on Protein Electrodynamics & Terahertz Medicine,” DGIST School of Undergraduate Studies Seminar, Daegu, South Korea, 19 Dec 2018.</p>
<p>“Bio-inspired Engineering: Biophysics of the Musculoskeletal System,” FRT – Field Robot Technology Seminar, Daegu, South Korea, 8 Mar 2019.</p>
<p>“A Brief Introduction to Bioelectromagnetics,” Nanyang Technological University School of Biological Sciences Special Seminar, Singapore, 18 Mar 2019.</p>
<p>“Medtech, Diagnostics, Wearables – What are the next trends in biotech investment landscape?” Phar-East 2019 Biotech Invest panel discussion, Singapore, 19 Mar 2019. Link</p>
<p>“Beyond the Pill, Beyond the Scalpel: New Approaches to Medicine in the Realm of the Digital and Electronic,” Phar-East 2019, Singapore, 20 Mar 2019. Link</p>

<p>“MRCT in Asia: Implications and opportunities,” Phar-East 2019 Clinical Trials panel discussion, Singapore, 20 Mar 2019. Link</p>
<p>“Eight Years in Korea: Experiences and Thoughts on Innovation,” Dragon Forum, Seoul, 26 Mar 2019.</p>
<p>“The Future of Health & Beauty,” SUNY-Korea INSIGHT Distinguished Speaker Series, Songdo, South Korea, 10 Apr 2019.</p>
<p>“Global Leadership Workshop,” Korea Hydro & Nuclear Power Co., Ltd. (KHNP) Lecture, Songdo, South Korea, 16 Apr 2019.</p>
<p>“On Innovation: Korea and the United States,” KIMEP University Bang College of Business Master Class, Almaty, Kazakhstan, 19 Apr 2019. Link</p>
<p>“Visionary Address: Healthcare Quality and Accessibility for All – The Trends That Will Enable This Goal,” 5th Annual Asia Healthcare Week, Singapore, 24 Apr 2019. Link</p>
<p>Plenary Session Chair, 5th Annual Asia Healthcare Week, Singapore, 24 Apr 2019. Link</p>
<p>Conference Chair, 3rd Annual Digital Healthcare Conference, Singapore, 24 Apr 2019. Link</p>
<p>“Beyond the Pill, Beyond the Scalpel: New Approaches to Medicine in the Realm of the Digital and Electronic,” 3rd Annual Digital Healthcare Conference, Singapore, 24 Apr 2019. Link</p>
<p>“Healthcare Investment Trends and Opportunities with Robotics,” Healthcare Investment and Partnering Conference, Singapore, 25 Apr 2019. Link</p>
<p>“Special Lecture: Biophysics of Blood,” DGIST Department of Emerging Materials Sciences Special Lecture, Daegu, South Korea, 3 May 2019.</p>
<p>“Global Leadership Workshop,” Korea Hydro & Nuclear Power Co., Ltd. (KHNP) Lecture, Songdo, South Korea, 14 May 2019.</p>
<p>“The historical development and ascendancy of family-owned business conglomerates in Korea (chaebol) as an adaptation to cultural transaction costs: Implications for new models of startup-driven innovation,” ASIALICS 2019. 26 Jul 2019. Link (with Jang-hyun Kim)</p>
<p>“South Korea – robotics leader where telemedicine is prohibited (Ogan Gurel),” Faces of Digital Health podcast, 11 Aug 2019. Link1 & Link2 & Link3 & </p>
<p>“Israel-Korea International Institute of Innovation,” Yonsei University Senior Leadership Presentation, 11 Sep 2019.</p>

Panel Discussion, UN-Citypreneurs Young Innovators Solving Urban SDGs challenges conference, New York, 27 Sep 2019. Link
“Robotics in Healthcare: Trends and Possibilities,” International Medical Device Conference 2019 , Kuala Lumpur, Malaysia, 15 Oct 2019. Link
“New Developments in Protein Electrodynamics & Terahertz Medicine,” Manipal International University School of Science and Engineering (SoSE) Guest Lecture Series , Negeri Sembilan, Malaysia, 16 Oct 2019. Link
“Wearable Robotics in Healthcare,” Wearable Device Seminar From Head to Toe - 웨어러블 디바이스 세미나 -머리부터 발끝까 , Seoul, 25 Oct 2019.
Panel discussion: “The Future of ICT (eHealth),” Europe-Korea Innovation Conference 2019 , Seoul, 5 Nov 2019. Link
Workshop: “Smart & Assistive Tech for Elderly & Caregivers,” ELDEX Asia 2019 , Singapore, 10 Nov 2019. Link
Plenary Talk: “Digital Healthcare: Current Status and Future Trends,” IBES 2019 - Korean Society of Medical & Biological Engineering (KOSOMBE) Annual Meeting, Incheon, South Korea, 8 Nov 2019. Link
“The Innovation Ecosystem in Korea,” Presentation to the University of Minnesota Management of Technology (MOT) program , Seoul, 8 Jan 2020.
“Covid-19 Update,” European Chamber of Commerce Korea (ECCK) Webinar , Seoul, 24 Feb 2020 Link1 & Link2 & Link3
“The Innovation Ecosystem in Korea,” Presentation to the University of North Carolina at Charlotte MBA program visit , Seoul, 2 Mar 2020 (Postponed due to Covid-19)
“Innovative Approaches to Dementia and Mental Health: Implications for the Insurance World,” 15th Asia Conference on Healthcare and Health Insurance , Singapore, 17 Mar 2020. Link (Postponed due to Covid-19)
“Korea’s Response to Covid-19,” KBLA Professional Seminar Series webinar , 1 Apr 2020 Link
“Korea’s Response to Covid-19 - Repeat,” KBLA Professional Seminar Series webinar (in collaboration with the Canadian Chamber of Commerce in Korea), 1 Apr 2020 Link & 
“The Past, Present & Future of Covid-19,” Harvard Club of Korea webinar , 2 Apr 2020 Announcement (Private group) & Presentation

<p>“Covid-19 Crisis Safety Briefing: Recommendations for Individuals & Organizations,” Aggreko webinar (English-Russian), 3 Apr 2020.</p>
<p>“Covid-19 Crisis Safety Briefing: Recommendations for Individuals & Organizations,” Aggreko webinar (English-Turkish), 6 Apr 2020.</p>
<p>“Readiness Advice from the Medical Community,” WeGO World Smart Sustainable Cities Organization Smart Health Responder Webinar, 29 May 2020. Link & Recording</p>
<p>“Protein Electrodynamics & Terahertz Medicine: New Paradigms for Medicine & Covid-19,” METU MEMS Center, Ankara, Turkey (via webinar), 5 Jun 2020. Link1 & Link2 & </p>
<p>“Go Global! The opportunities and challenges of global partnerships for startups,” NextRise 2020, Seoul, 23 Jun 2020. Link1 & Link2 & </p>
<p>“Protein Electrodynamics & Terahertz Medicine: New Paradigms for Covid 19 and Medicine,” CHEM Seminar – The Hong Kong University of Science and Technology, 16 Jul 2020. Link</p>
<p>“Emerging Technological Perspectives & Changing Paradigms in Biology & Medicine,” Korea Society for Biochemistry and Molecular Biology International Conference KSBMB 2020, Seoul, 26 Aug 2020. Link</p>
<p>Plenary Address: “COVID-19 & the Future: New Paradigms in Medicine & Healthcare,” 13th National Conference for Clinical Research – NCCR 2020, Selangor, Malaysia, 25 Aug 2020. Link (online)</p>
<p>Panel discussion: “Expert Panel Discussion on Technology & Innovation Development,” 13th National Conference for Clinical Research – NCCR 2020, Selangor, Malaysia, 26 Aug 2020. Link (online)</p>
<p>“New Paradigms in Health & Medicine in the world of Covid & Beyond: Implications for Investors,” CAPCON 2020, 29 Sep 2020 - Online, Link</p>
<p>Panel Moderator: “Fostering homegrown innovation in Southeast Asia – investor and biotech perspectives,” Phar-East 2020, Singapore, 8 Dec 2020. Link</p>

OTHER ARTICLES AND BLOG POSTINGS (2016 – PRESENT) ^{8,9}
“The Issue of Patient 360, Reconciling IT with Care Delivery and Making Medicine Easy, in Mini-MD Style,” <i>HIMSS Asia Pacific</i> , Mar 2016. Link
“Fascinated by the Undulations of Life: Medical Doctor, Technologist, Writer, CEO, International Man of Mystery, Dr. Ogan Gurel tells us why he won’t stand still and neither should you.” <i>KBLA Value Chain</i> , pp 18-20, May 2016. Link
“The Logic of Medicine: How Doctors Think,” <i>KBLA Value Chain</i> , pp 52-57, Oct 2016. Link
“The Logic of Medicine: How Doctors Think,” <i>KBLA Blog</i> , 21 Dec 2016. Link
“It’s Not About Hearing Loss, It’s About Preventing Hearing Failure,” <i>Asian Hospital & Healthcare Management</i> , Jun 2017. Link
“We Are What We Hear: Hearing Loss and Brain Change,” <i>The Alliance Journal</i> , pp 15–16, Jul 2017.

SEOUL MAGAZINE ⁶
“A Super Birthday food: Seaweed Soup (미역국),” Jun 2014. Link
“The Devoted Life: Dr. Lee Sung-gyu takes his work, and his patients, seriously” In: <i>Korea Magazine</i> , Jul 2014. Link
“Samgyetang Ginseng Chicken Soup: Fighting Fire with Fire,” Aug 2014.
“Traditional Korean Medicine & Acupuncture: Mind Over Matter,” Sep 2014.
“Bibimbap: It’s in the Mix,” Oct 2014.
“Touring Medical Tourism in Korea,” Nov 2014.
“Kimchi: A Story of Heaven, Earth, and Man,” Dec 2014. Link
“The Korean Healthcare System,” Jan 2015. Link

⁸ Not including the novel [Waves](#), contributions to [Seoul Magazine](#) (see table below), and other general interest writings.

⁹ See page [48](#) and following for previous articles and blogs (prior to 2016).


PATENTS
Kwon W, Lim BK, <u>Gurel O</u> , (18 Mar 2014) Robots comprising multi-tool modules having redundancy and methods of controlling the same, Link Granted (14 Feb 2017)
Kwon W, Lim BK, <u>Gurel O</u> , (17 Mar 2014) And a robot control method of the robot, Link Granted (13 May 2018)
Kwon W, Lim BK, <u>Gurel O</u> , (18 Mar 2014) Robot and control method thereof, Link Granted (31 Oct 2017)
Kwon W, Lim BK, <u>Gurel O</u> , (18 Mar 2014) Robot and control method thereof, Link
Kwon W, Lim BK, <u>Gurel O</u> , (18 Mar 2014) Robots and methods of controlling the same, Link
<u>Gurel O</u> , Baik C-W, Nelson KA, Teo S M-Y, Ofori-Okai BK, Werley CA, (15 Oct 2014) System for 2D spectroscopy and method of 2D spectroscopic analysis, Link
<u>Gurel O</u> , Baik C-W, Nelson KA, Teo S M-Y, Ofori-Okai BK, Werley CA, (15 Oct 2015) Two-dimensional spectroscopy system and two-dimensional spectroscopic analysis method, Link Granted (28 Nov 2017) Link
<u>Gurel O</u> , Lee H-S, (Aug 5, 2014) Method and Apparatus for Generating Real Three-Dimensional (3D) Image,
<u>Gurel O</u> , Lee H-S, (Aug 5, 2014) Method and Apparatus for Generating Real Three-Dimensional (3D) Image, Link
<u>Gurel O</u> , Lee JM, Choi JI, (2 Jan 2018) Object Identification Apparatus Determining Whether An Object Is Animate Or Inanimate Based On Millimeter Waves Or Tera-Hertz Waves And A Method Thereof, Link

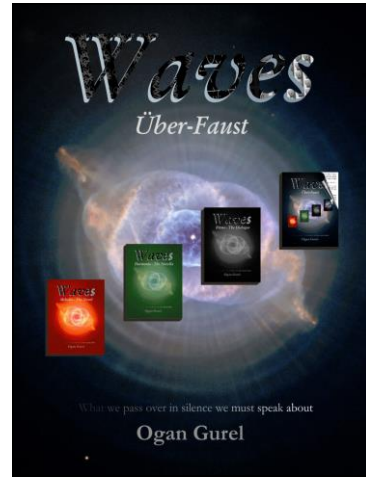
BOOKS

CHARMm User's Guide (1997), Polygen Corporation. [User's guide for the CHARMm molecular dynamics simulation and analysis computer software package.] [Link](#)

Prospectus Practico-Philosophicus (1989 – 1993), Guidebook to New York City, Washington Heights, and the Columbia-Presbyterian Medical Center. [Link](#)

Waves (2009)

- [Amazon](#) (also available on Kindle for iOS/Android)
- [Goodreads](#)
- [Facebook Group](#)
- [Facebook Page](#)
- [LinkedIn Page](#)
- [Youtube Trailer](#) 
- [Author page](#) (2008)



Current Situation and Strategies of Regional Firms for the 4th Industrial Revolution
(4 차 산업혁명에 대한 지역기업의 대응 실태 및 전략), DGIST 정책연구 2017-01, 2017

MAJOR MEDIA

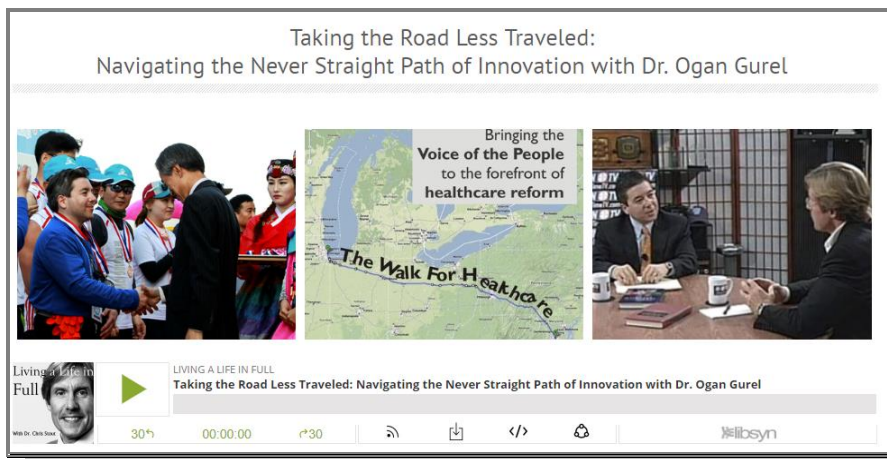
“When the world falls down on children,” *Boston Globe*, Letter to the Editor, 6 Sep 1999. [Link](#)

“‘Innovation’ Increases Patent Law Turmoil,” *Wall Street Journal*, Letter to the Editor, 17 Apr 2006. [Link](#)

RADIO & TV (not including hosted InTimeTV shows ¹⁰)
Robert Berger, CBS News , 4 Sep 1999 from Değirmendere, Turkey. Link
“The nuts and bolts of Innovation,” On the Edge with Jonas Moses on InTimeTV .
“Emerging Clinical Technologies: Opportunities & Challenges for Hospitals,” Healthcare Executive show on InTimeTV .
“Technology Acceleration: promoting market-driven innovation,” On the Edge with Jonas Moses on InTimeTV .
“Emerging Clinical Technologies: The Challenges of Physician Adoption,” Healthcare Executive show on InTimeTV . Link
“Advances in Cardiovascular Disease,” Heart Health Update on InTimeTV . (panel discussion with Dr. Jeffrey Silver MD FACC)
“Dr. Ogan Gurel and the Walk 4 Healthcare interview,” Radio or Not! – Air America Nicole Sandler Show , 10 Jul 2009. Link 1 & Link 2
“Dr. Ogan Gurel and Walk 4 Healthcare update,” Radio or Not! – Air America Nicole Sandler Show , 16 Jul 2009. Link 1 & Link 2
“Ogan Gurel and the Walk 4 Healthcare,” WCPT Radio The Dick Kay Show , 18 Jul 2009. Link 1 , Link 2 , Link 3 , & Link 4 .
“Dr. Ogan Gurel and Walk 4 Healthcare recap,” Radio or Not! – Air America Nicole Sandler Show , 24 Jul 2009. Link
WBEZ NPR , “848 Radio,” 27 Jul 2009. Link
“Dr. Ogan Gurel and Walk 4 Healthcare Part 4,” Radio or Not! – Air America Nicole Sandler Show , 27 Jul 2009. Link
EBS “Morning Special,” Seoul, 23 Jul 2015. Link
KBS World Radio “Touch Base in Seoul,” Seoul, 3 Mar 2016. Link

¹⁰ See listing of hosted InTime TV shows on page [52](#) and following.

<p>“Taking the Road Less Traveled: Navigating the Never Straight Path of Innovation with Dr. Ogan Gurel,” Living A Life in Full with Dr. Chris Stout, Chicago, 23 Apr 2018. LinkedIn & Vimeo &  & Living a Life in Full</p>
<p>Tjasa Zajc (11 Aug 2019) “South Korea – robotics leader where telemedicine is prohibited (Ogan Gurel),” Faces of Digital Health podcast. Link 1 & Link 2 & Link 3 & </p>
<p>EBS “Morning Special,” Ilisan, South Korea, 8 Feb 2020. Link & </p>
<p>TBS eFM “The Scoop,” Seoul, 24 Feb 2020. Link (requires Adobe Flash Player)</p>
<p>TBS eFM “COVID-19 Live Update,” Seoul, 6 Mar 2020. Link (21:20)</p>
<p>Channel News Asia (cna) Insider “Money Mind – The Business of Longevity,” Singapore, 22 Mar 2020 Main Link, YouTube Link (Part 1) and YouTube Link (Part 2)</p>
<p>Arirang News In-Depth with Moon Conn-young “The Hunt for A Coronavirus Vaccine,” Seoul, 7 April 2020 </p>
<p>Arirang News In-Depth with Moon Conn-young “The Hunt for A Coronavirus Vaccine Part Two,” Seoul, 10 April 2020 </p>
<p>Channel News Asia (can) Insider “Money Mind – Developing Countries - Coming Out Of A Crisis,” 23 May 2020 </p>
<p>Arirang News In-Depth with Moon Conn-young “Redefining Leadership in the Era of Covid-19,” 3 Jun 2020 </p>



<http://www.alifeinfull.org/podcast.html>

OTHER MEDIA REFERENCES
Gene Maeroff (27 Jan 1982) "2 City Schools Win 38 Science Prizes," <i>The New York Times</i> . Link
— (2 Mar 1982) "City's Students win Top 3 Prizes in a National Science Competition," <i>The New York Times</i> . Link 1 & Link 2
Susan Walton (10 Mar 1982) "Today's Winners, Tomorrow's Nobel Laureates," <i>Education Week</i> . Link
Ken Segal (19 Apr 1986) "Harvard Crews to Shift Seating," <i>The Harvard Crimson</i> . Link
— (4 Aug 1993) "Columbia student cited for research," <i>Bergen News</i> .
Patrick Quinn (29 Aug 1999) "U.S. Marines Help Turkey Homeless," <i>Associated Press</i> . Link
Chris Milliman (12 Nov 2000) "Medals and Money on Charles: 36 th Head of the Charles sets new standards," <i>Independent Rowing News</i> . Link
Jacque de Almeida (25 Oct 2004) "Leander men row their boat quickly down the Charles," <i>The Hamilton Spectator</i> , p. A4 Link
— (28 Oct 2005) "Movers & Shakers," <i>Smart Business</i> . Link
— "Investment Consultant Says: Keep an Eye on Bioelectromagnetics," <i>The Bioelectromagnetics Society blog</i> . Link
— (21 Feb 2007) "Juror Sees Trends Emerge in MDEA Process," <i>Medical Device and Diagnostic Industry</i> . Link
Heather Thompson (1 Apr 2007) "Make it Simple, Make it Right Clinicians and surgeons respond to simple innovations that make a device easy to use," <i>Medical Device and Diagnostic Industry</i> . Link
Erik Swain (1 Apr 2007) "Transforming Medical Practice: A number of MDEA winners that use design principles and technological advances to offer therapeutics or diagnostics just may change the future of certain treatments.," <i>Medical Device and Diagnostic Industry</i> . Link
Douglas Limbach (1 Dec 2007) "2008 MDEA Jurors Announced," <i>Medical Device and Diagnostic Industry</i> . Link
— (Jan–Feb 2008) "Alumni: Eye on Harvard," <i>Harvard Magazine</i> . Link
— (28 Mar 2008) "Nanotechnology internet TV talk show debuts," <i>nanowerk</i> . Link
— (27 Jun 2009) "Walking to Washington," <i>WGN-TV</i> . Link
— (27 Jun 2009) "Walk for Healthcare," <i>ABC7 Chicago</i> . Link





























— (27 Jun 2009) “Walk for Healthcare,” <i>NBC5 Chicago</i> . Link
— (27 Jun 2009) “Walk for Healthcare,” <i>CBS2 Chicago</i> . Link
— (3 Jul 2009) “Take a Hike for Healthcare,” <i>Ft. Wayne FOX-TV</i> . Link
— (5 Jul 2009) “Trekking for Healthcare,” <i>Ft. Wayne Journal–Gazette</i> .
Hannah Poturalski (7 Jul 2009) “Doc goes the extra 700 miles,” <i>Lima News</i> . Link
— (9 Jul 2009) “Doc walks Lincoln Highway for health care reform,” <i>Lincoln Highway News</i> . Link
— (10 Jul 2009) “Doctor walks 700 miles for healthcare reform,” <i>People’s Weekly World</i> . Link
— (10 Jul 2009) “Walk for Healthcare,” <i>Bucyrus Telegraph Forum</i> .
— (10 Jul 2009) “Walk for Healthcare,” <i>Mansfield NewsJournal</i> .
— (11 Jul 2009) “Doctor Walking to D.C. To Promote Health Care Reform,” <i>WFMD-TV – Mansfield, OH</i> . Link
— (12 Jul 2009) “Türk doctor 50milyon sigortasız Amerikalı için yürüyor,” <i>Hürriyet, USA</i> .
David Grimes (13 Jul 2009) “Doctor’s orders,” <i>East Liverpool Review</i> .
— (13 Jul 2009) “Doctor’s Orders: Hitting the road for healthcare reform,” <i>Lisbon Morning Journal</i> .
— (17 Jul 2009) “Photo Journal Feature: On The Move,” <i>Pittsburgh Post-Gazette</i> . Link
Heather Meyer (19 Jul 2009) “Where the Tech-Rubber Meets the Activism-Road,” <i>OpEdNews</i> . Link
— (20 Jul 2009) “Walk for Healthcare,” <i>Bedford Gazette</i> .
— (22 Jul 2009) “Doctor walking to D.C. to bring message of healthcare reform,” <i>Hagerstown Herald-Mail</i> .
— (26 Jul 2009) “Walk for Healthcare,” <i>FOX-TV WTTG</i> .
Sarah Lovinger (28 Aug 2009) “One Doctor Goes To Great Lengths For Universal Health Insurance,” <i>The Huffington Post</i> . Link
David B. Nash (Oct 2009) “In Time for Nanotech,” <i>Biotechnology Healthcare</i> , 6(4):7 . Link
Razi Canikligil (3 Jan 2010) “Türk doktor 50 milyon sigortasız Amerikalı için yürüyor,” <i>Hürriyet</i> .
“People in SAIT”, (22 May 2013) Samsung Internal PR release. Link
Matthew Weigand (17 Sep 2013), “Will the Next Renaissance Blossom in Seoul?” <i>BusinessKorea</i> . Link

Matthew Weigand (20 Mar 2015) "Shifting Medical Paradigms Prognosis on the Coming Medical Revolution to Re-focus on Prognosis," <i>BusinessKorea</i> . Link
— (26 May 2015) "Dr. Ogan Gurel at NUS ECE Graduate Student Symposium (GSS) 2015," <i>CN-TV.org</i> . Link
Mark Zastrow (Mar 2016) "Die 'Chaebol' haben das Sagen," <i>Horizonte</i> . Link
— (15 Mar 2016) "Chiavari. domani 'Wylab Stories' con Ogan Gurel," <i>Levante News</i> (Italy). Link
— (16 Mar 2016) "Incubatore–Wylab: Dati Pitch Day e Partnership con LABA Di Brescia," <i>IM-Impresa Mia</i> (Italy). Link
박성민 (6 Apr 2016) "공부하는 과학자..."도전적 연구 위해," <i>HelloDD</i> (Korea). Link
Anita McKay (May 2016) "The Camarata Music Company," <i>Groove Korea</i> . Link
Matthew Weigand (2 May 2016) "Terahertz Paradigm Terahertz Radiation Shows Great Promise for Medical Advancements," <i>BusinessKorea</i> . Link
— (16 Aug 2016) "A Selection of Class Notes," <i>Columbia Medicine</i> . Link
전창훈 (6 Oct 2016) "극재 탄생 100주년, 되새겨보는 창조...계명대 7일 '제3회 극재 포럼'" <i>Maeil</i> (Daegu, South Korea). Link
Neo Chai Chin (4 Nov 2016) "Medicine, technology to the fore at Singapore Medical Week next year," <i>TODAY</i> (Singapore). Link
Jo-Ann Teo, (Jan 2017) "Launch of Singapore Medical Week by SMA & FutureMed 2017," <i>Singapore Medical Association (SMA) News</i> (Singapore). Link
Jo-Ann Teo & Sylvia Thay, (Oct 2017) "Singapore Medical Week 2017," <i>Singapore Medical Association (SMA) News</i> (Singapore). Link
Siti Zarinah Sahib (8 May 2017) "Kembalikan nikmat deria dengar," <i>MyMetro</i> (Malaysia). Link
— (12 May 2017) "Helping Malaysians hear better," <i>StarMetro</i> (Malaysia). Link
Zaitie Satibi (14 May 2017) "Ramai rakyat Malaysia pekak," <i>MyMetro</i> (Malaysia). Link
— (19 May 2017) "Innovation thought leader, Dr. Ogan Gurel, to join DGIST faculty as Distinguished Invited Professor in the Management of Innovation program," <i>Asia Research News</i> . Link
— (22 May 2017) "Innovation thought leader, Dr. Ogan Gurel, to join DGIST faculty," <i>DGIST PR Center</i> . Link & Link (Korean)
Nursyamimi Saidi (23 May 2017) "Bunyi bisung punca pekak," <i>Utusan Online</i> (Malaysia). Link

































김영태 (15 Jan 2018) “DGIST, 글로벌 벤처 CEO 포럼 개최,” <i>경북매일</i> . Link
— (16 Jan 2018) “DGIST 이노베이션경영(MOI) 프로그램이 코트야드 메리어트 판교에서 글로벌 벤처 CEO 포럼을 개최했다고 15 일 밝혔다,” <i>경상매일신문 -Gyeongsang Daily</i> . Link
— (19 Jan 2018) “Successful Completion of Global Venture CEO Forum,” <i>DGIST PR Center</i> . Link & Link (Korean)
— (8 Mar 2018) “DGIST MOI and LABA (Libera Accademia di Belle Arti) Sign Cooperation MOU,” <i>DGIST PR Center</i> . Link & Link (Korean)
박제성 (12 Mar 2018) “DGIST, 이탈리아 디자인스쿨 LABA 와 기술·디자인융합 협약,” <i>뉴스웍스</i> . Link
최병수 (3 Oct 2018) “계명대, 예술을 통한 혁신 소통 ‘제 4 회 극재 포럼’ 개최,” <i>NSP 통신</i> . Link
— (19 Nov 2018) “Laba Production, viaggio nel futuro no-limits,” <i>Bresciaoggi</i> . Link
Andrew Salmon (22 Dec 2018) “Defying ‘Korean gravity,’ detonating innovation A US academic and ex-Samsung researcher is running to lead a major Korean research institute. There, he hopes to initiative convergence and unleash creativity,” <i>Asia Times</i> . Link1 & Link2 (includes video)
김성우 (22 Jan 2019) “DGIST 제 4 대 총장 선거에 외국인 교수가 도전장,” <i>Maeil (Korea)</i> . Link
Andrew Salmon (7 Feb 2019) “삼성, 경직된 조직 문화로 혁신의 기회를 놓치다 삼성종합기술원에서 연구원으로 근무했던 외국인 교수의 눈에 비친 삼성의 모습,” <i>Asia Times</i> . Link 1 & Link 2
Will Greene (20 Jun 2019) “Can AI Help Close the World’s Primary Healthcare Gaps?” <i>Techonomy</i> . Link
— (15 Oct 2019) “CREST Digital Healthcare Cluster Kicks off With 3 Initiatives,” <i>Digital News Asia</i> . Link
Andrew Salmon (23 Feb 2020) “Korean virus cases rise, but rate of increase slows,” <i>Asia Times</i> . Link
Andrew Salmon (29 Feb 2020) “Korean cases soar, fingerprint scanners face suspicion,” <i>Asia Times</i> . Link
Andrew Salmon (3 Mar 2020) “Big business funds Korea’s ‘Silicon Valley,’” <i>Asia Times</i> . Link
Donald Kirk (13 Mar 2020) “South Korea is Beating the Coronavirus. Mass Testing is Key. But There’s More,” <i>Daily Beast</i> . Link

Andrew Salmon (16 May 2020) "Why East beat West on Covid-19 (Part 2)," <i>Asia Times</i> . Link
Donald Kirk (9 Apr 2020) "What Happens When the All-Clear Isn't All Clear? COVID-19 'Reactivations' in South Korea," <i>Daily Beast</i> . Link
Chad O'Carroll, Colin Zwirko, & Jeongmin Kim (2 May 2020), "Kim Jong Un factory visit footage hints at possible recent medical procedure," <i>NK NEWS</i> . Link (And several other references, for example, see Fox News below as well as <i>The Sun</i> , Express , <i>Daily Mail</i> , <i>The Times</i> , <i>The Standard</i> , <i>ABC Australia</i> , etc.)
Peter Aitken (2 May 2020) "Kim Jong Un may have had heart surgery, based on fresh mark on wrist, experts say," <i>Fox News</i> . Link
정명진 (7 Jun 2020) "글로벌 VC 요즈마, 한국 바이오 등 벤처 액셀러레이팅 강화," <i>파이낸셜뉴스</i> . Link
유진상 (8 Jun 2020) "중기·벤처 요즈마그룹, 바이오 생태계 이끌 K 스타트업 발굴 나선다," <i>IT Chosun</i> . Link

OTHER REFERENCES & ACKNOWLEDGEMENTS
Dunn R, Lyman MD, Edelman PG, Campbell PK (Feb 2001), "Evaluation of the SprayGel™ adhesion barrier in the rat cecum abrasion and rabbit uterine horn adhesion models," <i>Fertility and Sterility</i> , 75 (2):411-416. [Acknowledgement] Link
Ferland R, Mulani D, Campbell PK (1 Dec 2001), "Evaluation of a sprayable polyethylene glycol adhesion barrier in a porcine efficacy model," <i>Human Reproduction</i> , 16 (12):2718–2723. [Acknowledgement] Link
Mary V. Krueger (2008) "Medical Diplomacy in the United States Army: A Concept Whose Time Has Come," U.S. Army Command and General Staff College Master of Military Art and Science Master's thesis. [Multiple references] Link
Korkut A and Hendrickson WA (15 Sep 2009), "A force field for virtual atom molecular mechanics of proteins," <i>Proc Nat Acad of Sci USA</i> , 106 (37):15667-15672. [Acknowledgement] Link
Teo SM, Ofori-Okai BK, Werley CA, Nelson KA (28 May 2015), "Single-shot THz detection techniques optimized for multidimensional THz spectroscopy," <i>Review of Scientific Instruments</i> 86 (5), 051301. [Acknowledgement] Link
Kim TH, Young KH and Kim MS (4 Mar 2020), "Recent Advances of Fluid Manipulation Technologies in Microfluidic Paper-Based Analytical Devices (μ PADs) toward Multi-Step Assays," <i>Micromachines</i> , 11 :269 [Acknowledgement] Link

SOCIAL MEDIA POSTINGS RELATED TO THE COVID-19 CRISIS ¹¹
<p>“More than just the common cold” (26 Jan 2020)  Facebook (FB)  LinkedIn (LI); Followup on FB.</p>
<p>“Implications of zoonotic origin of novel coronavirus from bats” (31 Jan 2020)  Facebook (FB)</p>
<p>“Importance of Fecal-Oral transmission: implications for infection control and masks in particular” (3 Feb 2020)  </p>
<p>“Novel coronavirus seems quite different from previous coronaviruses such as SARS & MERS” (4 Feb 2020) </p>
<p>“Distinction between Quarantine & Isolation: importance of the latter for preventing pressure to mutate and increase virulence” (7 Feb 2020)  </p>
<p>“Implications of local transmission in Singapore & ambient temperature” (7 Feb 2020)  </p>
<p>“Uptick of coronavirus cases: New diagnostic classifications” (13 Feb 2020)  </p>
<p>“Comparison to 1918 Flu Pandemic and mutation issue” (15 Feb 2020)  </p>
<p>“SARS-CoV-2 Viral Load in Upper Respiratory Tract” (20 Feb 2020)  </p>
<p>“Commentary on the explosion in cases in South Korea: more than just the common cold – redux” (22 Feb 2020)  </p>
<p>“ECCK webinar Overview / Update” (24 Feb 2020) ECCK Website   </p>
<p>“Two mysteries of Covid-19: reinfection and environmental stability” (29 Feb 2020)  </p>
<p>“Anthony Fauci update on lethality, transmission, mitigation & treatment” (29 Feb 2020) </p>
<p>“Individual Isolation for Covid-19” (29 Feb 2020)  </p>
<p>“SARS-CoV-2 comes in two types (mutant variants)” (5 Mar 2020)  </p>

¹¹ See also [Radio & TV](#) (p 38) as well as [Other Media References](#) (pp 42-43) for other Covid-19 related content.

<p>“What causes Severe Covid-19 Disease?” (16 Mar 2020)   </p>
<p>“Can Covid-19 be cured?” (18 Mar 2020)  </p>
<p>“Anti-inflammatories with Covid-19” (19 Mar 2020)  </p>
<p>“Does the CARES Act Care?” (27 Mar 2020) </p>
<p>“Korea’s Response to Covid-19” KBLA / CanCham webinar (2 Apr 2020)   </p>
<p>“[NEWS IN-DEPTH] The Hunt for A Coronavirus Vaccine Part One” Arirang interview Apr 7 2020 (Posted 8 Apr 2020)   </p>
<p>“[NEWS IN-DEPTH] The Hunt for A Coronavirus Vaccine Part Two” Arirang interview Apr 10 2020 (Posted 11 Apr 2020)   </p>
<p>“Covid-19 Review & Update: 23 April 2020” (24 Apr 2020)   </p>
<p>“Covid-19 Testing Chronicles” (14 May 2020)   + Followup on FB</p>
<p>“More than just severe pneumonia” (23 May 2020)  </p>
<p>“Readiness Advice from the Medical Community,” WeGO World Smart Sustainable Cities Organization Smart Health Responder Webinar, 29 May 2020. Link   </p>
<p>“Redefining Leadership in the Era of Covid-19,” (3 Jun 2020)   </p>
<p>“The Equation of Covid-19 Success,” (19 Jun 2020)  </p>

OTHER PUBLICATIONS & PRESENTATIONS (PRIOR TO 2010)

BUSINESS ARTICLES (MIDWESTBUSINESS.COM)
Drug Safety Debate to Yield Big Changes, Grow More Controversial (5/1/2006) Link
Tech Convergence a Key Theme at Orthopedics Conference in Chicago (4/3/2006) Link
Perspective Following BIO 2006: The Midwest as Innovation Central? (4/17/2006)
'Medicare Part D': What the Benefit Means For Medical Technology (5/15/2006) Link
Intellectual Property: Does it Matter? (6/13/2006) Link
The Future of Drug-Coated Stents: A Big Issue or a Non-Issue? (6/26/2006) Link
A Time to Make Friends: More Partnerships in Biotech, Med Tech? (7/12/2006) Link
Drug-Eluting Stent Market: \$5 Billion Turning on a Dime (7/24/2006)
The Devil's in the Details: A Closer Look at Merck's Vioxx Trials (8/7/2006) Link
FDA-Approved Artificial Heart From Abiomed a Whimper, Not a Bang (9/8/2006) Link
Bioelectromagnetic Therapies: Science Fiction or Reality? (10/16/2006) Link
Cosmetic Implantables: There's More Beneath the Surface (10/31/2006) Link
So Far, Venture Capital Relatively Unsuccessful in Biopharma Market (11/14/2006) Link
Drug-Eluting Stents, Part One: Triple Storm Catching Industry Attention (11/27/2006) Link
Drug-Eluting Stents, Part Two: Triple Storm Catching Industry Attention (11/28/2006) Link
Biotech, Med Tech Business Models: Investors, Patients Deserve Better (12/11/2006) Link
Subtle But Powerful, Publication Bias Goes Beyond Financial Incentives (1/9/2007) Link
Lance Armstrong and the Future of Cancer Care (1/22/2007) Link
What's More Important in Medicine: Diagnostics, Therapeutics or Prognosis? (2/5/2007) Link
Medical Design Excellence Awards Offer Decisive Glimpse Into Future of Health Care (2/20/2007)
Gov. Blagojevich Announces Illinois Covered to Insure 1.4 Million in Illinois (3/5/2007) Link
What Patients Want: A Story of Choice, Trials, Evidence-Based Medicine (3/19/2007) Link

KKR Buys First Data: On Private Equity, Pipelines, Development (4/2/2007) Link
Personalized Medicine, Tech Convergence Decisive Trends (4/16/2007) Link
Unfolding Tragedy: 'Balancing Act Between Innovation, Health-Care Access' (5/1/2007) Link
The Diabetes Divide: Is Diabetes a Surgical or Medical Disease? (5/14/2007) Link
The 'Innovation Gap': Preventing Ideas From Untimely Deaths (5/29/2007) Link
Call to Action: How to Accelerate Medical Technology in Illinois, Beyond (5/30/2007)
FDA: Tortoise, Hare or Something Else Entirely? (6/12/2007)
The Future is Bright For Life Sciences in State of Illinois (6/25/2007)
Stryker: The Surprising Implications of Hip-Resurfacing Implants (7/9/2007) Link
Analysis: Why the Abbott Deal With GE Healthcare Fell Apart (7/17/2007)
Life Sciences Funding: Has the Private Equity Boom Peaked? (7/23/2007)
Integration of Medical Records Across Populations Still a Dream (8/6/2007)
The Deconstruction of Amgen: Company is Victim of Own Success (8/20/2007) Link
Concepts of Innovation, Invention Should Now Be Regarded Differently (9/17/2007)
Invention Needs to Be Left Free; Innovation Must Be Managed (10/4/2007)
Innovation vs. Invention: Accelerating Development (1/21/2008)
The Logic of Health Care in Wake of New Obama, Clinton Reform Plans (2/5/2008)
Innovations Galore Spawning From 2008 Medical Design Excellence Awards (2/18/2008)
Counterdetailing: A Cure For a Pharmaceutical Addiction? (3/17/2008) Link
Rising Co-Payments: Are Patients Getting Their Money's Worth? (4/14/2008)
Connection Between the Subprime Mess and the Uninsured: Socialized Risk (4/28/2008) Link
The Persistent Socialized Risk Problem: Gas Tax, Health Care Insurance (5/12/2008)
Pharma Finance 2008 in Italy: Invention, Innovation Perspectives – Part I (5/27/2008) Link & Link
Pharma Finance 2008 in Italy: Invention, Innovation Perspectives – Part II (6/5/2008) Link
Where the Action's at With Secrets of Everyday Life: Proteins or DNA? (6/9/2008) Link

BUSINESS ARTICLES (WISCONSIN TECHNOLOGY NETWORK)
Italian view on invention and innovation Link
Socialized risk not confined to subprime mess; healthcare impacted
Innovation versus invention: Why accelerating development makes sense
Fostering innovation doesn't occur in a vacuum
Innovation vs. invention: Knowing the difference makes a difference
Lessons from the deconstruction of Amgen Link
Crazy like a Google? With GE-Abbott deal scrapped, could Google be next buyer?
Reforming FDA: Focus on safety, let market judge efficacy
FDA: Tortoise, hare, or something else?
Who is minding the Innovation Gap? Link
Barriers will not stop convergence of medical technologies
Abbott vs. Thailand has implications for innovation and access
Personalized medicine and technology convergence
Of private equity, research, and drug development
What patients want: A story of choice, clinical trials & evidence-based medicine Link
Healthcare of business: Universal coverage plan includes new business taxes
And the winners in medical design are...
A prognosis for GE and Abbott Diagnostics
Lance Armstrong and the future of cancer care

CONFERENCE & ORAL PRESENTATIONS (BUSINESS, <i>PRIOR TO DEC 2010</i>)
Covenant Executive Board Presentation , "The Future of Cardiac Services"
Catholic Healthcare East CEO conference , "Impact of Change on Cardiac Services"
Healthcare Roundtable for Strategic Planning & Marketing Executives , "Forecasting the Impact of Technology on Utilization"
Baptist Medical Center Board Presentation , "Imaging Advances"
Catholic Health Initiatives Strategic Planners Conference , "The Future of Cardiac Services: Transformation and Integration"
ACI Neuroscience Centers of Excellence Conference , "Clinical Neurosciences in the Next Decade: Transformation and Integration"
St. John's (Joplin, MO) Cardiac Planning Council , "The Future of Cardiac Services"
Florida Hospital Council of the Presidents , "Healthcare Technology Adoption"
Franciscan Missionaries of the Lake System-wide Board Retreat , "Future Trends in the Technology of Health Care"
Healthcare Roundtable for Executives in Patient Care Services , "Managing Future Demand Due to Clinical & Technological Advances"
St. Mary's (Evansville) Futures Council , "The Future of Surgery"
El Camino Hospital , "The Hospital of the Future"
VHA Chief Nursing Officer Affinity Group Conference , "Future Technology Impacts on Healthcare: Including Academia"
SSM Executive Council Retreat , "Future Trends in Healthcare: Implications for Patient-Centered Care"
VHA Senior Marketing Executive Affinity Group Meeting , "Future of Healthcare and Its Impact on Marketing"

American Data Network Conference, "Future Trends in Healthcare Technologies"
Healthcare Roundtable for Strategic Planning & Marketing Executives, "The Future of Healthcare: Technology Assessment and Market Forecasting"
VHA West Physician Staffing Seminar, "Future Models of Care and the Impact on Physician-related Hospital Services"
Mercy Medical Center (Nampa) Board/Medical Executive Retreat, "The Future of Healthcare: Impact of Technology"
Intermountain Healthcare Board / Medical Executive Retreat, "The Future of Healthcare: Impact of Technology"
Central Washington Hospital Board Retreat, "Future of Healthcare: Impact of Technology"
Mercy Medical Center (Nampa) Board/Medical Executive Retreat, "The Impact of Changes in the Business and Technology of Health Care"
VHA Upper Midwest Conference, "The Future of Surgical Services"
VHA Central Surgery Managers Conference, "The Future of Surgical Services"
Premier All-Committee Meeting, "The Future of Healthcare: Disruptive Technologies"
IONE 2004 Fall Conference, "The Future of Healthcare: Impact of Technology"
IONE 2004 Fall Conference, "The Hospital of the Future"
Harvard Club of Chicago, "Emerging Healthcare Technologies and the Future of Medicine," Chicago, 13 Mar 2003.
VHA ICU Conference, "Technology Horizon: Shaping the ICU of the Future"
American Data Network Leadership Conference, "Maintaining Competitive Advantage as Healthcare Changes"
VHA Upper Midwest CIO Conference, "Engaging Physicians in Healthcare IT"

The Future of Biotech – Roosevelt University, Chicago, Apr 2005.

12th Annual ASC Conference, “Future Trends in Ambulatory Surgery Centers,” Chicago, 21 Oct 2005.

MediCHEF Educational Session, “Medical Nanotechnology: Implications for Healthcare,” Chicago, 29 Nov 2005.

ACI Conference - OR of the Future, “Future Trends in Surgery,” San Francisco, 18 Jan 2006.

Leader’s Board for Group Practice Executives, “Future of Healthcare for Group Practice Executives,” San Diego, 24 Jan 2006.

Optimizing Your Clinical Trials Conference, “Keynote presentation,” Newark, NJ, 9 Feb 2006.

Investment In Innovation (In3) Conference, “Duravest company presentation,” San Diego, 24 Feb 2006.

ARCH Investment Conference – “Duravest company presentation,” New York, 18 May 2006.

BioDevice Partnering – 2006, “Financing of convergent medical technologies,” Keynote Panel, Edinburgh, Scotland, 13 Jun 2006.

Illinois Institute of Technology Hospital of the Future Conference 2006, “Forecasting the Impacts of Technology on Cardiac Services and Other Trends in Healthcare Delivery”, Chicago, 18 Aug 2006. [Link](#)

6th National Conference on Comprehensive Cancer Programs & Services, “Emerging Technology Trends Impacting Cancer Care” & conference chair, San Francisco, 18 Sep 2006.

McGuireWoods Private Equity Investment in Health Care Conference, “Key trends in healthcare impacting private equity investment,” Chicago, 4 Oct 2006.

Accelerating Innovation – “Keynote Presentation”, MaRS Discovery District, Ottawa, Nov 2007.

Investing in Medical Nanotechnologies II – “Keynote Presentation,” London, Dec 2007. [Link](#)

Clinical Future of Convergence – Panel Moderator at BioDeviceForum, San Jose, Sep 2008.

Keys to Success: The Habits of Highly Successful Physicians – Keynote Presentation at SEAK, 12 Sep 2009. [Link](#)

INTERNET TELEVISION PRESENTATIONS (<i>INSIGHTS IN MEDICINE</i> HOST)
<p><i>Update on the Surgical Management of Thyroid and Parathyroid Disease</i> Link & Link Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery, Rush University Medical Center</p>
<p><i>End-of-Life Planning and Advance Directives</i> Link & Link & Link Linda Emanuel MD PhD - Director, Buehler Center on Aging, Northwestern University</p>
<p><i>Fatty Liver Disease</i> Link & Link Nancy Reau MD - Assistant Professor of Medicine, University of Chicago Center for Liver Disease</p>
<p><i>Melanoma of the Skin</i> Link & Link Arthur Rhodes MD MPH – Professor of Dermatology, Rush University Medical Center</p>
<p><i>Advances in Neuro-Oncology - Stem Cell Therapy</i> Link & Link (26 Apr 2008) Alfredo Quinones-Hinojosa MD - Assistant Professor of Neurological Surgery and Oncology - John Hopkins University</p>
<p><i>Surgical Management of Inflammatory Bowel Disease</i> (26 Apr 2008) Alessandro Fichera MD - Assistant Professor of Surgery - University of Chicago</p>
<p><i>Update on Head & Neck Cancer</i> Link Ezra Cohen MD - Assistant Professor of Medicine (Hematology/Oncology) - University of Chicago</p>
<p><i>Liver Transplantation</i> Link Giuliano Testa MD FACS - Director, Liver Transplantation and Hepato-Biliary Surgery - University of Chicago</p>
<p><i>Update on pancreatico-biliary surgery</i> Link Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery - Rush University Medical Center</p>
<p><i>Minimally Invasive Spine Surgery</i> Link Yevgeniy A. Khavkin MD - Assistant Professor of Neurological Surgery - Northwestern University</p>
<p><i>Hip Arthritis and Hip Replacement / Resurfacing - Update & Advances</i> Link Craig Della Valle MD - Associate Professor of Orthopedic Surgery - Rush University Medical Center</p>
<p><i>Ankle Arthritis - Total Ankle Replacement and Newer Bone Sparing Options</i> Link Michael Pinzur MD AAOS - Professor of Orthopaedic Surgery & Rehabilitation - Loyola University Medical Center</p>
<p><i>Focusing the Radiation Beam: Stereotactic Radiosurgery</i> Link Issam Awad MD MSc FACS MA (hon) - Professor and Vice-Chairman of Neurosurgery at Northwestern University</p>
<p><i>Update on Radiation Therapy for Gynecologic Malignancies</i> Link William Small Jr. MD FACRO - Professor and Vice-Chairman of Radiation and Oncology - Northwestern University</p>
<p><i>Advances in Functional Neurosurgery</i> Link Joshua M. Rosenow MD – Director, Functional Neurosurgery - Northwestern University</p>
<p><i>Medical Diplomacy</i> Link Gov. Tommy Thompson (former Governor of Wisconsin and previously Secretary of U.S. Department of HHS)</p>
<p><i>Cranial Electrotherapy Stimulation for the Depressive Phase of Bipolar Disorder – Advances and Indications</i> Link Chip Fisher – President Fisher-Wallace Laboratories</p>
<p><i>Intermittent Explosive Disorder</i> Link Emil F. Coccaro MD - Professor & Chairman of Psychiatry at the University of Chicago</p>
<p><i>Screening, Diagnosis and Treatment in Prostate Cancer: Evaluating the Options</i> Link Lawrence S. Ross MD - Professor of Urology at the University of Illinois - Chicago</p>

<p><i>Neurosurgical Pain Management</i> Link Konstantin Slavin MD - Associate Professor of Neurosurgery at the University of Illinois at Chicago</p>
<p><i>Reporting from the Medical Design Excellence Awards</i> Link Steven Halasey - Editor-in-Chief of MX Magazine Herbert Voigt PhD - Professor, Boston University College of Engineering Kouros Azar MD - Biomedical engineer and plastic surgeon</p>
<p><i>Expanded Role for Ultrasound in Physical Diagnosis</i> Link Jason Birnholz MD FACR FRCR, Diagnostic Ultrasound Consultants</p>
<p><i>Update on Liver Diseases</i> Link Donald M. Jensen MD; Professor of Medicine and Director at the Center for Liver Diseases at the University of Chicago</p>
<p><i>Quality of Care and Quantity of Payment: The New Link Between Performance and Reimbursement</i> Michael Millenson, President of Health Quality Advisors</p>
<p><i>Physician Quality & Performance Measurement</i> Link Joseph V. Messer, MD, FACP, MACC, FCCP, Professor of Medicine at Rush Medical College</p>
<p><i>Issues in Gastroenterology: C. Diff Colitis; Nutrition and other topics</i> Carol Semrad MD, Associate Professor of Medicine at the University of Chicago</p>
<p><i>Update on MRSA</i> Bala Hota MD MPH, Assistant Professor of Medicine (Infectious Diseases) at Rush University Medical Center</p>
<p><i>Advances in Targeted Therapies for Cancer</i> Ezra Cohen MD - Assistant Professor of Medicine (Oncology) at the University of Chicago</p>
<p><i>Gastroenterology for the General Practitioner</i> Link Carol Semrad MD., Associate Professor of Medicine at the University of Chicago</p>
<p><i>Issues in Male Reproductive Health for the General Practitioner</i> Link Craig Niederberger MD - Chairman of Urology, University of Illinois - Chicago</p>
<p><i>Update on Bariatric Surgery</i> Link Vivek Prachand MD - Assistant Professor of Surgery at the University of Chicago</p>
<p><i>Insights in Gastroenterology for the Primary Care Physician</i> Link Arvydas D. Vanagunas MD, Associate Chief for Clinical Gastroenterology at Northwestern University School of Medicine</p>
<p><i>Online Communities for Doctors: The What, the Why and the How</i> Link Tobin Arthur – Founder and CEO of iMedExchange, Inc.</p>
<p><i>Nephrolithiasis for the General Practitioner</i> Link Stewart Lipson MD - Associate Professor of Urology at the University of Illinois – Chicago</p>
<p><i>Integrating Physical Health Care for Individuals with Serious Mental Illness</i> Link Peter Weiden MD, Professor of Psychiatry and Director of the Psychosis Program at the University of Illinois – Chicago</p>
<p><i>Women's Heart Health</i> Link Annabelle Volgman MD FACC, Director of the Rush Heart Center for Women</p>
<p><i>Advances in the Management of Cerebral Aneurysm Disease and Stroke</i> Link & Link Bernard Bendok MD, Assistant Professor of Neurological Surgery and Radiology- Northwestern University School of Medicine</p>
<p><i>The Present & Future of Primary Care Medicine</i> Link C. Anderson Hedberg MD, MACP, former President of the American College of Physicians</p>
<p><i>Unmet Needs in Primary Care</i> Link & Link Vedat Obuz MD, Medical Director at the Lotus Medical Clinic</p>

INTERNET TELEVISION PRESENTATIONS (NANOTECH TODAY HOST)
— (28 Mar 2008) “Nanotechnology internet TV talk show debuts,” <i>nanowork</i> . Link David B. Nash (Oct 2009) “In Time for Nanotech,” <i>Biotechnology Healthcare</i> , 6 (4):7. Link
<i>Bioinspired Nanomaterials</i> Link & Link Chad Mirkin PhD - Professor of Chemistry and Director of the Institute for Nanotechnology at Northwestern University
<i>Biologically inspired strategies for new biomaterials</i> Link & Link Phillip Messersmith PhD - Professor of Biomedical Engineering - Northwestern University
<i>Emerging Technologies for Nano-Engineered Medicine</i> Link & Link Dean Ho PhD - Professor of Biomedical Engineering - Northwestern University <ul style="list-style-type: none"> • Nano-Engineered Medicine - Dean Ho - Pt. 1 - Link • Nano-Engineered Medicine - Dean Ho - Pt. 2 - Link
<i>Bio-Inspired Sensors</i> Link Hooman Mohseni PhD - Assistant Professor of Electrical Engineering & Computer Sciences - Northwestern University
<i>Linking structure and function at the molecular level</i> Link Neville Freeman PhD – President, Fairfield Scientific
<i>The role of complex dissipative systems, non-equilibrium self-organization and self-assembly in nanotechnology</i> Link Bartosz A. Grzybowski PhD - Associate Professor of Chemical and Biological Engineering - Northwestern University
<i>Self-Assembling Molecules for Cell Signaling</i> Link Daniel Harrington PhD - Research Assistant Professor - Northwestern University
<i>Nanoparticle-based sensors</i> Link Sandra Bishnoi PhD - Assistant Professor - Illinois Institute of Technology
<i>Making "Sense" of DNA</i> Link (22 Mar 2008) Franz Geiger PhD - Dow Chemical Company Professor at Northwestern University <ul style="list-style-type: none"> • Making "Sense" of DNA - Prof. Franz Geiger - Link
<i>The Nanostructure of Portland Cement - New Approaches to Studying an Old Material</i> Link Hamlin M. Jennings PhD - Professor of Civil and Environmental Engineering - Northwestern University <ul style="list-style-type: none"> • Nanostructure of Portland Cement - Hamlin Jennings - Link
<i>Fostering Innovation in Nanotech</i> Link Ogan Gurel, MD

INTERNET TELEVISION PRESENTATIONS (FUTURE MD)
Joshua M. Rosenow MD – Director, Functional Neurosurgery - Northwestern University - Link
Saul Weiner MD - Section Chief, General Pediatrics - University of Illinois at Chicago - Link
Lawrence S. Ross MD - Professor of Urology at the University of Illinois - Chicago - Link
Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery - Rush University Medical Center - Link
Giuliano Testa MD FACS - Director, Liver Transplantation and Hepato-Biliary Surgery - University of Chicago - Link
Emil F. Coccaro MD - Professor & Chairman of Psychiatry at the University of Chicago - Link
Issam Awad MD MSc FACS MA (hon) - Professor and Vice-Chairman of Neurosurgery at Northwestern University - Link

<p>INTERNET TELEVISION PRESENTATIONS (EYE ON HARVARD HOST) — (Jan–Feb 2008) “Alumni: Eye on Harvard,” Harvard Magazine. Link</p>
<p><i>Medical Devices, Pharmaceuticals and Biotechnology: Bringing it All Together</i> Link & Link Dr. Norbert Riedel, Harvard post-doc - Chief Scientific Officer - Baxter International</p>
<p><i>The World of Politics</i> Link David Wilhelm MPP'90 – President & Founder of Woodland Venture Management</p> <ul style="list-style-type: none"> ▪ Barack Obama & Hillary Clinton compared - Link ▪ The Evolution of President George W. Bush - Link ▪ Lessons from the Kennedy School at Harvard University - Link ▪ Illinois Politics and Sen. Barack Obama - Link ▪ Thoughts on the challenges facing DNC Chair Howard Dean - Link ▪ Turmoil in the Democratic Nominating Process: Good or Bad? - Link ▪ Why I decided to support Barack Obama - Link ▪ What Makes Barack Obama "Tick" - Link ▪ On Choosing a President - Link ▪ Comparing politics in 1992 with the present time - Link ▪ On negativity in the Clinton campaign - Link
<p><i>Hedge Funds in 2008 and beyond: Current Trends in Small Cap Investing</i> Link (26 Apr 2008) Brendan Carroll MBA '04 - Victory Park Capital Advisors, LLC</p>
<p><i>Terra Firma - A Journey from Migrant Farm Labor to Neurosurgery</i> Link (26 Apr 2008) Alfredo Quinones Hinojosa, MD '98 – Chair of Neurosurgery, Mayo Clinic Florida</p>
<p><i>The World of Nanotechnology: Self-Assembly of Complex Systems</i> Bartosz A. Grzybowski PhD '00 - Associate Professor of Chemical and Biological Engineering - Northwestern University</p>
<p><i>New Approaches to Bridging the Achievement Gap in Secondary School Science & Math Education</i> Link Sam Dyson - MEd'00 - Walter Payton College Prep Kevin McCarron - MEd'94 - Science Teacher - Oak Park & River Forest High School Vivian Hoette - HSE - Astronomy Educator, University of Chicago - Yerkes Observatory</p>
<p><i>Topics in the History of Ethnic Cleansing, Nationalism and the Use of Courts for Political Ends</i> Link Prof. Benjamin Frommer - PhD'99 - Associate Professor of History - Northwestern University</p>
<p><i>Healthcare Reform, Challenges in Hospital Finance</i> Link James Doyle - HSPH - Senior VP & CFO, Elmhurst Memorial Healthcare</p>
<p><i>An Introduction to String Theory</i> Link Savdeep S. Sethi PhD '99 - Associate Professor of Physics - University of Chicago</p>
<p><i>From Shakespeare to South Park</i> Link Judith Kegan Gardiner, AB '62 - Professor of English and Gender and Women's Studies - University of Illinois at Chicago</p>
<p><i>Studying Access to Healthcare: Surprising or not so surprising conclusions</i> Link Dr. Saul Weiner AB '88 - Section Chief, General Pediatrics - University of Illinois at Chicago</p>
<p><i>Geopolitical Trends – the Middle East, Russia & Africa</i> Frederick C. Broda AMP'88 – Advisor at Oxford Analytica</p>
<p><i>New Paradigms in Treating Psychiatric Disorders</i> Chip Fisher AB'78 – President Fisher-Wallace Laboratories</p>
<p><i>Turkey's Foreign Policy</i> Ambassador Altay Cengizer – Fellow, Harvard Weatherhead Center for International Affairs</p>
<p><i>Medical Diplomacy</i> Gov. Tommy Thompson (former Governor of Wisconsin and previously Secretary of U.S. Department of HHS)</p>
<p><i>Featuring the Art and Artistry of John Himmelfarb</i> John Himmelfarb AB '68 MAT '70 - Artist</p>

<p><i>The World of Commercial Real Estate</i> Link Michael Alter AB'83 - President, The Alter Group</p>
<p><i>Explorations in Entrepreneurship</i> Link Steven Kaplan, AB'81 AM'82 PhD'88 - Professor of Entrepreneurship at the University of Chicago</p>
<p><i>The view from LA</i> Link Yule Caise, AB'86 – Writer, Producer, Director Frank Evers, AB '87 – Managing Director , VII Photo LLC</p>
<p><i>The World of Healthcare Law</i> Link Scott Becker JD'98 - Healthcare Co-Chair at McGuireWoods, LLP</p>
<p><i>Fetal Medicine – how the field began at Harvard and where it is going</i> Link Dr. Jason Birnholz, MGH/HMS '70 – '79</p>
<p><i>Perspectives on Employment: Past, Present and Future</i> Link John A. Challenger, AB'77- CEO of Challenger, Gray & Christmas, Inc.</p>
<p><i>Physician Quality Measures - The Good and the Bad</i> Link Dr. Joseph Messer, AB '53 MD '56</p>
<p><i>Encyclopedia of Life</i> Link John McCarter MBA '63 - President & CEO of the Field Museum of Natural History</p>
<p><i>Next-generation investment paradigms</i> Link Jan Hummel MBA '86, CEO of Paradigm Capital Management</p>
<p><i>The Harvard-Munich Medical Alliance</i> Link Prof. Chris Frank MD, Chief of Cardiac Anesthesiology, Ludwig Maximilians University (Munich) and Executive Director of the LMU-Harvard Medical Alliance</p>
<p><i>The Psychology of Terrorism, The Center for Global Initiatives and more ...</i> Link Dr. Chris Stout, Founding Director - Center for Global Initiatives</p>
<p><i>Your Inner Fish: How studying fish fossils and worm DNA tells us something about ourselves</i> Prof. Neil Shubin, PhD '87 - Professor and Chair, Dept. of Organismal Biology and Anatomy at the University of Chicago</p>
<p><i>Doctor, What Should I Do With My Baby's Cord Blood? –The Politics, Economics, Business & Ethics of Stem Cells and Cord Blood</i> Dr. Paul Kent 'AB86 – Assistant Professor of Pediatric Hematology/Oncology at Rush University Medical Center Link</p>
<p><i>From Cash Flows to Waterfalls: An I-Banker Turned Adventure Travel Entrepreneur</i> Nancy Collins MBA'99, CEO of Global Adrenaline, Inc.</p>
<p><i>An Outsider's Perspective Inside of North Korea</i> Link Walter Keats AB '67 President of Asia Pacific Travel</p>

INTERNET TELEVISION PRESENTATIONS (*HEALTHCARE EXECUTIVE HOST*)

<p><i>Innovative Health Care Solutions - Next Level ROI</i> Vip Jain, Principal and Head of Healthcare Consulting, XRoads Solutions Group</p>
<p><i>Issues & Trends in Healthcare IT</i> Gary Baldwin MS, Senior Technology Editor, HealthLeaders Media</p>
<p><i>Developments in Cancer Care for the Healthcare Executive</i> Chester Szerlag MBA FACHE CMPE, Radiation Oncology Executive Administrator - University of Chicago Hospitals</p>

BLOG ARTICLES (MULTIPLY SYNDICATED)
Global and Historical Perspectives on Invention & Innovation
On Innovation Part II: Fostering Innovation Link
Expanding Health Coverage to the Uninsured: How to Pay for it - the Health Impact Tax
On Innovation, Fostering Innovation and Accelerating Development: New Webcast
On Innovation Part I: Innovation is Not the Same as Invention Link
A Pharmaceutical Addiction Link
Medical Diplomacy: A Brief Outline Link
Diabetes: Looking Past Blood Sugar ... Link
FDA issues a "black box" warning for Avandia - A Balancing Act Between Safety and
The Deconstruction of Amgen Link
Is Healthcare too Personalized for Personalized Medicine? Link
Accelerating Medical Technology Innovation, Drug/Device Safety and FDA Reform: InTimeTV broadcast
FDA panel votes to retain Avandia on the market: DrugWonks celebrate; Prince Hal rails against Falstaff ... Link
"Nothing but Momentum" ... Life Sciences on a roll in Illinois
Life Sciences Accelerator, Drug Safety, FDA reform and other topics
FDA Report on Avandia: Implications and a "critique" of the critique Link
"Conversations in Biotechnology and other topics": InTimeTV interview
Has the private equity boom peaked?
Private equity boom (and bust?): Implications for the Life Sciences Link
Boston Scientific, Medtronic settle some defibrillator suits; is the device safety storm over?
Avandia, the Drug Safety Debate and How to Get a Nobel Prize Link
Patent Reform Act of 2007: Innovation, Implications and the American Inventor
Bleeding stents ... Is the drug-eluting stent era over?
Convergent Medical Technology: Part II - Why is it important?
Financial Incentives Can Drive New Pharmaceutical & Medical Technology Adoption: What are the Implications?
GE Healthcare acquisition of Abbott Diagnostics deal scrapped: Who could be the next buyer in line?
Biologics Chicago - Life Sciences at the Columbia Yacht Club
How Doctors Think: Implications for Life Science Business & Finance Link
Convergent Medical Technology: Part I - What is it?
Chief Partnership Officer: An Idea Whose Time Has Come? Link
The Many Surprising Implications of Hip Resurfacing Implants Link
FDA Reform Redux: On Business Models, Regulatory Reform and Safety Link
Too Few Biotech Firms in Chicago?
New Blog Launch: Independent Life Sciences Business & Investment Blog Debuts on Independence Day
Zangani Audio Webcast: Technology convergence, Personalized Medicine and Patient Safety

SAMSUNG PRESENTATIONS (NOT INCLUDING CONFIDENTIAL INTERNAL PRESENTATIONS)	
2012/11/9	“Unique Challenges in Healthcare Innovation” – Samsung Tech Conference 2012 - MOT Forum
2013/4/12	“Pride in Samsung” – Samsung Group HR Global Experienced Employee Course - GEEC
2013/5/6	“History & Vision of SAIT” – SAIT HR International Employees Training
2013/5/9	“Samsung R&D Strategy & Innovation” – SEC HRDC Global Directors Course
2013/5/21	“Samsung R&D Strategy & Innovation” – SEC HRDC Core Talent Program
2013/5/29	“Building high-performance teams” – SEC HRDC - Global Leadership Academy at HRDC
2013/6/4	“Samsung R&D Strategy & Innovation” – SEC HRDC Core Talent Program
2013/6/7	“Samsung R&D Strategy & Innovation” – SEC HRDC Global Managers Course
2013/6/11	“Samsung R&D Strategy & Innovation” – 2013 R&D Leaders Forum
2013/6/17	“Pride in Samsung” – Global HR New Global Hire Orientation (HRDC)
2013/7/2	“Samsung R&D Strategy & Innovation” – 2013 R&D Leaders Forum
2013/7/15	“Pride in Samsung” – Global HR New Global Hire Orientation
2013/8/20	“Samsung R&D Strategy & Innovation” – 2013 New Global Manager Hires
2013/8/20	“Pride in Samsung” – Global HR New Global Hire Orientation
2013/9/3	“Trends in Innovation & Technology” – Samsung Managers Academy
2013/9/4	“Samsung R&D Strategy & Innovation” – 2013 New Global Manager Hires
2013/10/21	“Pride in Samsung” – Global HR New Global Hire Orientation
2013/10/22	“Samsung R&D Strategy & Innovation” – Samsung New Graduate - New Hire Orientation
2013/11/1	“Pride in Samsung” – SHRDC Global Experienced Employee Course - New Global Hire Orientation
2013/11/5	Technical Chair Samsung Tech Conference 2013 - Future IT Forum - Convergence in Mobile Health
2013/11/18	“Pride in Samsung” – 2013 New Global Manager Hires
2013/11/25	“Samsung R&D Strategy & Innovation” – Core Talent Program
2014/03/18	“Samsung R&D Strategy & Innovation” – SELC New Hires Orientation
2014/04/1	“Bio-inspired concepts for computer vision & imaging processing” – SAIT Imaging Device Lab seminar
2014/04/15	“Samsung R&D Strategy & Innovation” – SELC New Hires Orientation
2014/10/21	“Samsung R&D Strategy & Innovation” – SELC New Hires Orientation
2014/11/4	Panel Moderator – Samsung Tech Forum, Mobile Health Panel
2015/03/6	“Protein Electrodynamics & Terahertz Medicine” – Mobile Healthcare Lab Research Seminar

SAMSUNG ADVANCED INSTITUTE OF TECHNOLOGY (SAIT) CTO MOT JOURNAL CLUB (INTERNAL)	
2011/03/15	On Innovation: “Global Innovation 1000: How the Top Innovators Keep Winning” and “The 5 Myths of Innovation”
2011/03/29	Crafting R&D Project Portfolios
2011/04/12	Strategy: Steps to Developing Scenarios
2011/04/26	Building Your Company’s Vision, Harvard Business Review
2011/08/23	Medical Devices: Managing the Mismatch – WHO Priority Medical Devices Project
2011/09/06	Disruptive Innovation & Healthcare
2011/10/25	Neuromorphic Systems Workshop: Conference Debrief
2011/12/13	Lean Knowledge Work
2012/07/03	Roadmapping for Technology Strategy
2012/10/23	EMBC 2012 Highlights: Conference Report
2012/12/18	The Future of Medical Imaging (RSNA’12 Conference Report)
2013/02/28	SPIE Photonics West - BIOS & SNU THz-Bio Workshop Conference Report
2013/03/20	The Laws of Technological Progress: Overview, Recent Results, Implications
2013/04/11	Megatrends: Definitions, Implications, Framework
2014/07/31	Best Practices in Industry-University Collaboration