

March 2024

**Curriculum Vitae - Pinchas Cohen**

**Distinguished Professor and Dean, USC Leonard Davis School of Gerontology  
Executive Director, Ethel Percy Andrus Gerontology Center  
Holder, William & Sylvia Kugel Gerontology Dean's Chair  
University of Southern California**

**Home Page: <http://gero.usc.edu/faculty/cohen/>**

**Office Address:** 3715 McClintock Avenue, Suite 103, Los Angeles, CA 90089-0191  
Tel: 213-740-1354; e-mail: [hassy@usc.edu](mailto:hassy@usc.edu)

**Citizenship:** US citizen (1998)

**Military Service:** 1975-1978 Israeli Air Force and Medical Corps

**Education:** 1978-1986 M.D., (with highest honors)  
Faculty of Medicine, Technion, Haifa, Israel

**Postgraduate Training and Fellowship Appointments:**

1986-1989 Intern and Resident, Department of Pediatrics,  
Stanford University, Stanford, California

1989-1992 Endocrine/Diabetes Fellow,  
Department of Pediatrics, Stanford, California

**Faculty Appointments:**

1992 Assistant Professor, Department of Pediatrics,  
University of Pennsylvania, School of Medicine, Philadelphia, Pennsylvania

1997 Associate Professor (*with tenure*),  
University of Pennsylvania, School of Medicine

1999 Professor of Pediatrics,  
University of California at Los Angeles, School of Medicine  
(Adjunct Professor 2012-2020)

2012 Professor of Gerontology and Medicine  
University of Southern California

2023 Distinguished Professor  
University of Southern California

**Administrative Appointments:**

1996-1999      Program Director, Pediatric Endocrinology and Diabetes  
University of Pennsylvania

1999-2012      Director of Endocrine/Diabetes Research and Training  
Mattel Children's Hospital UCLA

2001-2012      Chief, Division of Endocrinology and Diabetes  
Mattel Children's Hospital UCLA

2007-2012      Co-Director (2007-2010) and Director (2011-2012)  
UCSD/UCLA Diabetes/Endocrinology Research Center (DRC)

2011-2012      Training Director, UCLA-CHRCDA-K12  
Child Health Research Career Development Award Program

2011-2012      Vice-Chair of Research, Mattel Children's Hospital UCLA

2012-            Dean, USC Davis School of Gerontology

2012-            Executive Director, Ethel Percy Andrus Gerontology Center, USC

2020-            Co-Director, USC-Buck Nathan Shock Center of Excellence in the Biology of Aging

**Specialty Certification:**

1991    Diplomat, American Board of Pediatrics (recertified)

1995    Diplomat, American Board of Pediatric Endocrinology (recertified)

**Licensure:**            Medical License - California and Pennsylvania

**Awards, Honors and Membership in Honorary Societies:**

- 1982 The David and Margaret Rue Award for Outstanding Student
- 1984 The Israeli Diabetes Foundation Young Investigator of the Year
- 1985 Technion First prize for MD thesis
- 1986 Graduated from Medical School with highest honors
- 1989 Juvenile Diabetes Foundation Fellow
- 1990 Pediatric Endocrine Society Research Fellow (Lilly Award)
- 1991 WSPR Young Investigator Research Prize (Ross Award)
- 1992 Child Health Research Center Investigator
- 1993 American Diabetes Association Career Development Award
- 1995 Elected member: Society for Pediatric Research
- 1996 Voted into "The Best Doctors in America"
- 1997 Master's of Science (Honorary), University of Pennsylvania
- 1998 Honorary Member: Japanese Society of Pediatric Endocrinology
- 2000 Pfeiffer Foundation Research Award
- 2005 Prostate Cancer Foundation (CaP Cure) Research Award
- 2006 Elected member: American Pediatric Society (APS)
- 2007 American Pediatric Society Outstanding Science Award
- 2008 Awarded the NIA-EUREKA Award
- 2009 Awarded the NIH-Director Transformative RO1 Award
- 2010 Stanford University Kroc visiting Professorship
- 2011 Glenn Award for Research in Biological Mechanisms of Aging
- 2012 William & Sylvia Kugel Gerontology Dean's Chair at USC
- 2013 Milken Institute Associate
- 2014-6 President, The Growth Hormone Research Society
- 2016 Association of Gerontology Higher Education Administrative Leadership Award
- 2017 Elected Member, National Academy of Inventors (USC Chapter)
- 2017 PBS Next-Avenue Top 50 Influencers in Aging
- 2018 American Federation for Aging Research BIG Award
- 2019 Irving S. Wright Award of Distinction - American Federation for Aging Research
- 2019 Elected: Fellow of the Gerontological Society of America
- 2019 Founding member, Academy for Health & Lifespan Research
- 2021 Listed in the Top 1% of Scientists in the World (Stanford/Elsevier)

**Advisory Service and Board Membership:**

- 1997-2007 Executive Board Member of the International IGF Society
- 1997-2001 Member LWPES Program Directors Committee
- 1998-2018 Executive Council Member: Growth Hormone Research Society
- 1999-2009 Member: Advisory Board for the University of Washington Cancer Program
- 2002-2005 Member: Endocrine Society Steering Committee
- 2002-2006 Member LWPES Drugs and Therapeutics Committee
- 2006-2009 Member: Advisory Board for the NIA CALERIE study
- 2009-2012 Member: National Diabetes Centers Directors Executive Committee
- 2015-2022 Member, Milken Institute Center for the Future of Aging Advisory Board
- 2015-2021 Director, CohBar Inc.
- 2016-2018 Member, Board of Directors of the American Society of Aging

### **Grant Study Sections**

VA Merit Review Study Section Member 1995-9  
NIH GCRC study section Ad Hoc Reviewer 1995-7  
Doris Duke Foundation Study Section Member 1997-9  
Canadian Cancer Society Study Section Member 2000-2  
NIDDK Urology Special Emphasis Programs 2003-6  
Chair, UCLA/UCSD DERC P&F grant study section 2003-12  
NCI Site visit study section member 2004  
NIA Proteomics and Aging RFA Study Section 2004  
NCI Oncology Cell Tissue Biology PO1 Study Section 2005-9  
NCI Tumor Cell Biology Study Section 2006-8  
NIDDK GI MCB Study Section 2006  
NCI P01 Discovery and Development SEP Study Section 2006  
NIA PO1 Special Study section 2007-10  
NIA NAME study Section 2008-12  
RC1/RC2 reviewer 2009  
NICHD Special Emphasis panel 2010  
NIA CMAD study Section member 2014-18  
Chair - AFAR Young Investigator Grant Review Committee 2015-2020  
National Academy of Medicine Catalyst Awards Study Section 2021-2022

### **Congress Organizing Committees**

2<sup>nd</sup> International Symposium on Prostate Growth 1995  
The GRS Consensus Meeting on GHD, Eilat, 1998  
5<sup>th</sup> International IGF Symposium 1999  
The IGF in Cancer Symposium, Boston 1999  
Third International IGFBP Symposium, Sydney Australia 2000  
GH Research Society Meeting Gothenburg 2000  
The GRS Consensus Meeting on GH safety, Keswick 2001  
The 1<sup>st</sup> Joint IGF Society and GH Research Society Meeting Boston 2002  
The Nobel Institute IGFBP Symposium, Stockholm 2003  
The 2<sup>nd</sup> Joint IGF Society and GH Research Society Meeting, Cairns 2004  
The 3<sup>rd</sup> Joint IGF Society and GH Research Society Meeting, Kobe 2006  
Chair: The LWPES/ESPE/GRS Consensus Meeting on ISS, Los Angeles, 2007  
The 4<sup>th</sup> Joint IGF Society and GH Research Society Meeting, Genova, 2008  
Chair: The First Western DERC Awardee Conference, La Jolla 2009  
The 5<sup>th</sup> Joint IGF Society and GH Research Society Meeting, New York, 2010  
Chair: Aging in Asia-Pacific APRU-Meeting, Los Angeles 2013  
The GRS Workshop on GH safety, Manchester 2014  
Co-Chair: The GRS Workshop on Long Acting GH Product Development, Palo Alto 2015  
The GRS Workshop on GH use in Children, Lisbon 2019  
Co-Chair: Advancing Geroscience: From Potential to Practice to Policy, Los Angeles 2023

**Membership in Professional and Scientific Societies (and offices held):**

Growth Hormone Research Society (*President 2014*)  
Society for Pediatric Research (Elected 1995)  
American Pediatric Society (Elected 2006)  
International IGF Society (*Executive Committee Member – 2000-2009*)  
Pediatric Endocrine Society (*Member, Various Committees*)  
Association of Program Directors in Endocrinology (*Board Member 1999-2005*)  
Endocrine Society (*Member, Various Committees*)  
American Diabetes Association (Career Development Awardee)  
Gerontological Society of America (Elected Fellow)  
American Society of Aging (*Member Board of Directors*)

**Patents:**

- Compositions to prevent and treat type-1 diabetes. US 7,998,928 (**granted 2012**)
- Treatment of Type 2 Diabetes, Metabolic Syndrome, Myocardial Injury and Neurodegeneration with Humanin and Analogs Thereof. US 8,309,525 (**granted 2013**)
- Small humanin-like peptides. WO2009135165-A2, US20110039771, WO2009135165A3, US 8,637,470 (**granted 2014**)
- MOTS-c peptide in metabolism US10391143B2 (**granted 2018**)
- MENTSH analogues as therapeutics for diabetes, obesity, and their associated diseases and complications US20210371479A1 (**granted 2021**)
- INSULIN-LIKE GROWTH FACTOR-1 RECEPTOR (IGF1R) BINDING PROTEINS AND METHODS OF USE WO2019046600A1
- *NOVEL THERAPEUTIC PEPTIDES FOR NEURODEGENERATION (SHMOOSE). PCT/US22/32223* WO2022256694A1
- PUTZ inhibition as therapeutics for skeletal muscle disorders (provisional patent submitted)
- A unique subset of microprotein analogues derived for therapeutic use against age-related diseases (MASL) (provisional patent submitted)
- A family of novel peptide analogues for use as a therapy for age-related diseases, including cancer (NOSH) (provisional patent submitted)

**Founder:**

CohBar Inc., a mitochondrial peptide biotechnology company (NASDAQ: CWBR)

MENTSH Therapeutics Inc., a precision medicine biotechnology company

**Media Interviews and Appearances:**

New York Times, Los Angeles Times, Wall Street Journal, Washington Post, ABC news, Forbes, Bloomberg News, NPR, PBS, BBC, Time, Newsweek, Scientific American

**Editorial Positions:**

Associate Editor	2003-10	<i>Pediatric Research</i>
Associate Editor	2006-10	<i>Growth, Growth Hormone, &amp; Metabolism</i>
Associate Editor	2006-10	<i>PLoS Computational Biology</i>
Associate Editor	2008-12	<i>Journal of Pediatric Endocrinology</i>
Associate Editor	2010-12	<i>Frontiers in Pediatric Endocrinology</i>
Associate Editor	2011-14	<i>International Journal of Genetics and Gene Therapy</i>

**Editorial Board Member:**

1995-97	Growth Regulation
1999-13	Journal of Clinical Endocrinology and Metabolism (3 <sup>rd</sup> term)
1999-14	Growth Hormone and IGF Research (3 <sup>rd</sup> term)
1999-12	Molecular Genetics and Metabolism (3 <sup>rd</sup> term)
2000-01	YourDoctor.com (Diabetes Section Editor)
2001-09	Endocrinology (2 <sup>nd</sup> term)
2001-12	Journal of Pediatric Endocrinology & Metabolism (3 <sup>rd</sup> term)
2001-06	Cancer Biology and Therapy
2001-07	Biocritique
2003-08	Growth and Genetics
2006-12	Journal of Clinical Pediatric Endocrinology (2 <sup>nd</sup> term)

**Reviewer** (Partial list): *New England Journal of Medicine, Lancet, Journal of Clinical Investigation, Journal of Biological Chemistry, JAMA, Journal of the National Cancer Institute (JNCI), Proceedings of the National Academy of Sciences (PNAS), Genes & Development, Diabetes, Molecular Endocrinology, Cancer Research, FASEB, PLoS Biology, Molecular and Cellular biology, Aging Cell, Science, Cell Metabolism.*

**Commentator:** *Journal of National Cancer Institute, Pediatric Research, Endocrine News, Endocrine today, Journal of Molecular Medicine, AARP magazine.*

**Academic Committees**

1999-12	UCLA Research Advisory Committee
2000-12	UCLA Committee on Appointments and Promotions
2000-12	UCLA General Clinical Research Center (& CTSI) Advisory Committee
2003-12	Chair, UCSD/UCLA Diabetes Research Center Executive Committee
2010-12	UCLA CHRCDA Internal Advisory Committee (Co-Chair)
2012-	Provost Research Committee, University of Southern California
2012-	CTSI advisory Committee, University of Southern California
2016-	Chair, Provost Task Force on Lifespan Health and Longevity
2020-	Chair, USC Public Health Policy Advisory Committee
2020-	USC Deans Executive Committee

**Mentor/PI on Training Grants:** - (total direct costs)

1993-1996 NRSA & LWPES fellowship for L Katz "IGFs in the beta cell" \$100,000  
1996-1999 CAP Award for L Katz "IGFs in the treatment of diabetes" \$270,000  
1996-1998 LWPES & LWPES fellowship for S Weinzimer "Cloning IGFBP-3 partners" \$100,000  
1998-1999 CHRC Award for S Weinzimer "Transferrin – IGFBP-3 interactions" \$35,000  
1997-1999 NRSA & LWPES fellowship for A Grimberg "IGFBP-3 mediates p53 effects" \$100,000  
1998-2000 NRSA & LWPES fellowship for R Ferry "IGFBP-3 in type 1 diabetes" \$100,000  
2000-2001 CHRC Award for R Ferry "IGFBPs in the beta cell" \$50,000  
2001-2006 KO8 Award for R Ferry "Growth factors in beta cells" \$600,000  
1997-1998 NRSA for M Shim "IGFBPs and insulin resistance" \$33,000  
2000-2002 Glaser-GPRN fellowship for M Shim "GH treatment of CP" \$112,000  
2009-2001 NRSA & LWPES fellowship for L Wetterau "IGFs and telomerase" \$100,000  
2001-2003 Giannini Award for K Lee "TR3 and IGFBP-3" \$80,000  
2003-2005 PSDP for K Bharucha "IGFBPs in the regulation of insulin action" \$140,000  
2003-2005 CHRC for KW Lee "IGFBP-3 and Nur77" \$225,000  
2005-2007 DOD Fellowship Award for L Cobb "IGFBP-3 Phosphorylation" \$180,000  
2005-2006 LWPES fellowship for J Yang "GH-IGF system in IUGR" \$35,000  
2005-2006 LWPES Scholar Award for KW Lee "IGFBP-3 action" \$35,000  
2005-2006 T32 fellowship for R Randhawa "Epigenetics of IGF2 IUGR" \$40,000  
2006-2007 T32 fellowship for J Ching "Humanin in cancer" \$45,000  
2006-2009 DOD Career Development Award for KW Lee "IGFBP-3 in CaP" \$500,000  
2006-2007 ESPE Sabbatical grant for I Netchine "IGF & Fetal growth" \$50,000  
2008-2009 T32 fellowship for J Keni "regulation of humanin kinetics" \$50,000  
2008-2009 NRSA fellowship for P Hoang "Humanin Rx of T1DM" \$50,000  
2009-2010 T32 fellowship for E Hosono "SHLPs in diabetes" \$50,000  
2010-2011 T32 fellowship for B Miyazaki "Novel metabolic effects of MDPs" \$50,000  
2011-2012 T32 fellowship for DC Lee "humanin protection from environmental toxins" \$50,000  
2012-2013 AFAR fellowship for K Yen "Mitochondrial peptides and aging in worms" \$50,000  
2012-2013 PES Award for YP Chin: The mitochondria in diabetes complications \$35,000  
2013-2017 Ellison Foundation New Scholar in Aging for DC Lee "MOTS-c in aging" \$800,000  
2016-2018 AFAR fellowship for S Kim "Humanin regulation of autophagy" \$100,000  
2018-2022 T32 pre-doc fellowship for B Miller "MDPs in neurodegeneration" \$150,000  
2019-2021 Japan Research Society Fellowship for H Kumagai "MOTS-c and Exercise" \$100,000  
2021-2023 T32 pre-doc fellowship for A Silverstein "MDPs in inflammation" \$100,000

**Principal Investigator of Grants: (Past) - (total costs)**

1989-1991 Juvenile Diabetes Foundation "IGF-I Therapy in Diabetes" \$60,000  
 1990-1992 American Diabetes Association "IGF-I Treatment of NIDDM" \$70,000  
 1992-1994 CHRC Award "Biological Actions of IGFBPs" \$70,000  
 1992-1996 NCI RO1 CA58110 "The IGF axis in prostate carcinogenesis" \$1,650,000  
 1993-1996 NIDDK 1RO1 DK47591 "IGF axis abnormalities in BPH" \$1,485,000  
 1993-1996 ADA Career Development Award "The IGF axis in the beta cell" \$300,000  
 1995-1999 FDA-RO1-01181 "IGF-I therapy of Congenital Hyperinsulinism" \$480,000  
 1996-2001 NIH 1P50 HL 56401 "IGFs in Lung Development and BPD" \$3,280,000  
 1996-2001 NIDDK 2RO1 DK47591 "IGF Axis Abnormalities in BPH" \$1,100,000  
 1999-2002 American Cancer Society TPRN-N5 "IGFBP-3 in Prostate Apoptosis" \$225,000  
 1999-2002 JDFI "Novel Approaches to Preventing Diabetes Complications" \$300,000  
 1999-2003 DOD CS-22982 "Signaling pathways in Prostate Cancer" \$480,000  
 1998-2003 NIH 1RO1 AI40203 "The IGF axis in asthma" \$750,000  
 1999-2003 CaP CURE Award "The IGF/IGFBP-3 axis in CaP" \$300,000  
 2000-2003 NIH SBIR Award (with Celtrix Inc) "IGFBP-3 Therapy of Cancer" \$300,000  
 2001-2003 Cerebral Palsy Foundation "GH therapy in Cerebral Palsy " \$100,000  
 2000-2004 NCI UO1-CA 84128 "Novel Models of Prostate Cancer" \$360,000  
 2001-2005 Novo Nordisk "IGF-based dose titration of GH " National PI \$100,000  
 2005-2007 NCI R21 CA 121220 Humanin in Prostate Cancer \$480,000  
 2001-2006 NIA R01AG20954 Genomic and non-genomic actions of IGFBP-3 \$1,485,000  
 2006-2009 Eli Lilly "Development of a D3GHR Chemotyping assay " \$100,000  
 2006-2009 Amgen "IGF1R blockade in prostate cancer " \$200,000  
 2006-2008 JDRF Idea Development "Prevention of diabetes with humanin" \$125,000  
 2003-2008 1R01CA100938 "IGF-I: a nutritionally regulated target in prostate cancer" \$1,650,000  
 2005-2008 DOD PC050485 "Humanin: a novel therapeutic target in prostate cancer" \$375,000  
 2008-2010 Genentech Foundation "Proteomic Discovery of GH-dependent markers " \$100,000  
 2004-2010 R01HD047013 "Role of IGF2 in Fetal Growth Restriction " \$2,600,000  
 2002-2018 NCI P50CA92131 "SPORE in Prostate Cancer" \$21,500,000  
 2003-2017 NIDDK 2P30DK063491 Diabetes Research Center \$14,850,000  
 2005-2010 NIA 2R01AG018381 "Regulation of glucose metabolism in aging" \$1,650,000  
 2007-2012 NIA 1P01AG027734 "GH & IGF in exceptional longevity" \$2,600,000  
 2006-2016 K12 HD034610 Child Health Research Center \$6,400,000  
 2011-2013 NIDDK 1R21DK089447 "Humanin and Type 2 Diabetes" \$412,000  
 2011-2013 Glen Foundation "Mitochondrial Peptides in Aging" \$60,000  
 2009-2014 NIA 1R01AG 034430 (EUREKA Award) "MDPs in aging" \$1,320,000  
 2009-2014 NIA 1R01AG 035114 "Regulators of Glucose Homeostasis in Aging" \$165,000  
 2009-2016 NIGMS 1R01GM 090311 (Transformative-RO1 Award) \$3,300,000  
 2011-2016 NIEHS 5R01ES020812 "MDPs as Biomarkers of Environmental Toxins" \$2,062,000  
 2014-2017 Jewish Community Foundation (Intergenerational creativity) \$250,000  
 2017-2020 AFAR BIG AWARD "Healthspan promoting Activity of Humanin" \$200,000  
 2019-2020 NIA R56AG062693 "Mitochondrial DNA Variations and Dementia" \$478,000  
 2017-2020 DOD PC160353 "Ethnic Disparity of MDPs in Prostate Cancer" \$990,000  
 2018-2021 NCI U54CA233465 CARE2 Project on Prostate Cancer Health Disparity \$1,900,000  
 2020-2022 P30CA014089-45S3 "Interdisciplinary research on cancer and aging" \$150,000  
 2011-2023 P01AG034906 "Dietary Restriction, & Differential Cellular Protection" \$22,500,000  
 2018-2023 RF1AG061834 "Humanin is an AD resilience factor through APOE4" \$3,327,000  
 2018-2023 R01EY27363 "Protective Effects of Humanin on AMD Mitochondria" \$206,000  
 2018-2023 R01CA231219 "GPR120 in Dietary Omega-3 Inhibition of Prostate Cancer" \$1,250,000



**Principal Investigator of Grants:** (Active)

- 2020-2025      **R01AG069698** (Cohen)  
Metformin-Regulated Mitochondrial Peptides and their Effects on Aging  
Total costs: \$2,060,000
- 2020-2025      **P30AG068345** (Cohen, Verdin, Lithgow, and Curran, MPIs)  
The University of Southern California Nathan Shock Center  
Total costs: \$4,600,000
- 2020-2025      **R01AG068405** (Cohen/Crimmins)  
Ethnic-Specific Mitochondrial DNA Variations that Contribute to Dementia  
Total costs: \$3,800,000.
- 2024-2028      **HF-AGE-23-1273964-51** (Cohen)  
Mito-Nuclear Communication of Mitochondrial Peptides in Aging  
Total costs: \$1,554,000
- 2022-2027      **R01HL158691** (Lerman & Eirin)  
Obesity-induced dysfunction of human MSC in peripheral microvascular repair  
Dr. Cohen leads a project on MOTS in adipose tissue.  
Total costs: \$3,900,000. Total costs of Dr. Cohen's project: \$420,000
- 2023-2025      **3R01CA261888-03S1** (Miller)  
Indicators of Accelerated Aging in Asian American Childhood Survivors  
Dr. Cohen leads a project on mitochondrial biomarkers  
Total costs: \$200,000

**Students and Post-Doctoral Fellows Supervised**

1992-1999: University of Pennsylvania // 1999-2012:UCLA // 2012-: USC

\*Denotes – trainee received independent funding post-training

Trainee's Name	Degree	Institution	Year	Position in Cohen Lab	Years supervised	Funding Source	Current Position
Lorraine Katz*	M.D.	Columbia U.	1989	Fellow	1992-1996	LWPES	Prof U Penn
Michael Agus*	M.D.	U Penn	1995	Med student	1994-1995	NIH	Prof Harvard
S Weinzimer*	M.D.	Yale	1992	Fellow	1995-1998	LWPES	Yale (Prof)
A. Grimberg*	M.D.	Cornell	1992	Fellow	1996-1999	LWPES	Penn (Prof)
Robert Ferry*	M.D.	UT	1994	Fellow	1997-2000	LWPES	UTSA (Prof)
Melanie Shim*	M.D.	Stanford	1995	Fellow	1999-2001	GPRN	Adj-Prof UCLA
M Moore*	M.D.	UCLA	2002	Med student	1999-2002	STAR	Prof Indiana U
Kuk-Wha Lee*	MD PhD	Loma Linda	1997	Fellow	2000-2003	Giannini	Prof UCLA
K Bharucha*	MD PhD	Yale	1998	Fellow	2002-2005	PSDP	Genentech
Makoto Anzo*	M.D.	Keio	1992	Post-Doc	2003-2006	NIH	Prof Keio
Ken Miyako*	MD PhD	Fukuoka U.	1999	Post-doc	2004-2007	NIH	Prof Kyushu
Laura Cobb*	Ph.D.	Cambridge	2004	Post-Doc	2004-2007	DOD	VP CohBar
Hae Soon Kim*	M.D.	Seoul U.	1980	Sabbatical	2005-2006	NIH	Professor EU
Irene Netchine*	M.D.	INSERM	1990	Sabbatical	2006-2007	INSERM	Prof, INSERM
Haruo Mizune*	MD PhD	Nagoya U.	1996	Post-Doc	2007-2008	NIH	Chiba Prof
Pauli Yamada*	Ph.D.	UA	2007	Post-Doc	2007-2010	NIH	U Hawaii ass prof
I. Hernandez*	M.D.	U of Chile	2000	Post-Doc	2007-2008	NIH	Prof Santiago U
Brian Miyazaki*	M.D.	UCLA	2006	Fellow	2009-2012	T32	USC (Asst. Prof)
Qinglei Gao*	MD PhD	Beijing U	2003	Post-doc	2010-2012	NIH	Tongji U. Prof
David Lee*	Ph.D.	USC	2010	Post-Doc	2010-2012	T32	USC (Asst. Prof)
Kelvin Yen*	Ph.D.	U Mass	2010	Post-Doc	2011-2013	AFAR	USC (Asst. Prof)
Su-Jeong Kim*	Ph.D.	Seoul NU	2013	Post-Doc	2013-2018	AFAR	USC (fellow)
Joyce Xiao	B.Sc.	UC London	2013	Pre-Doc	2013-2018	NIH	Res. Assoc @ WR
Brendan Miller	B.Sc.	Arizona SU	2015	Pre-Doc	2017-2022	T32	USC (student)
Hiroshi Kumagai	Ph.D.	Juntendo U	2017	Post-Doc	2019-2022	NIH	USC (fellow)
Ana Silverstein	B.Sc.	UW	2020	Pre-Doc	2020-2025	T32	USC (student)
Melanie Flores	B.Sc.	Cal Poly	2020	Pre-Doc	2020-2025	NIH	USC (student)
Naphada Lee	B.Sc.	Chulabhorn	2018	Pre-Doc	2021-2024	Fulbright	USC (student)
Zeferino Reyna	M.Sc.	USC	2020	Pre-Doc	2021-2025	NIH	USC (student)
Hemanth Singuluri	Ph.D.	U Wisconsin	2023	Post-Doc	2023-2025	NIH	USC (postdoc)

**Major Invited Lectures:**

- Feb 1992 WSPR. Carmel, California. David W. Smith Award Lecture:  
"IGF-II Hyper-expression in Prostate Fibroblasts from BPH Patients".
- May 1992 Lawson Wilkins Society Meeting. Baltimore, Maryland. Lilly Award Lecture:  
"Effects of IGFBPs on Cell Growth".
- May 1993 Spanish Endocrine Society National Meeting. Seville, Spain.  
"Growth Hormone Receptor Deficiency".
- May 1994 Workshop on GH and Catabolic Illness. Nice, France.  
"Which actions of growth hormone are mediated by IGF-I and which are not".
- Oct 1995 3<sup>rd</sup> International Symposium on IGFBPs. Tübingen, Germany.  
"IGFBP proteases - functional regulators of cellular growth".
- Sep 1996 NIH Research Festival Symposium. Bethesda MD.  
"Regulation of cell growth and death by IGFBPs"
- Mar 1997 Invited lecturer: Parapathetic Club.  
"IGFBPs as cell regulators".
- Apr 1997 NIH Conference on Assessment of the GH/IGF-I axis in aging, Wash. DC.  
"IGFBP-3 and prostatic neoplasia"
- Jun 1998 Endocrine Society Plenary Symposium. New Orleans LA.  
"Cell Regulatory Function of IGFBP-3"
- Aug 1998 Cap CURE Annual Meeting. Lake Tahoe, CA  
Lecture: "Novel aspects of prostatic IGF Biology"
- Sep 1999 The First International Symposium on GH, IGF, and Cancer, Boston.  
Lecture: "Cancer risk-reduction by Monitoring IGF-I during GH therapy"
- May 2000 GRS consensus meeting on Growth Hormone Safety, Keswick VA.  
Lecture: "Epidemiology of GH and Cancer."
- Sep 2000 Cap CURE Annual Meeting. Lake Tahoe, CA  
Lecture: "IGFBP-3: a potential therapy for prostate cancer"
- Nov 2000 ICE 2000, Sydney Australia.  
Lecture: "GH, IGF and diabetes: safety implications for clinicians"
- May 2001 International Growth Symposium, Cancun, Mexico.  
Lecture: "What are IGFBPs doing in the nucleus?"
- May 2002 NIH meeting on GH, IGF and Aging.  
"Role of the GH-IGF-IGFBP system in carcinogenesis".
- Dec 2002 NCI Prostate SPORE Annual meeting, San Francisco.  
"IGFBP-3 and its Role in Prostate Cancer".

- Apr 2003 NIH apoptosis and aging workshop, Bethesda MD.  
Lecture: "intra-nuclear roles of IGFBP-3 in apoptosis"
- May 2003 SPR meeting, Seattle, WA, Plenary Symposium on peri-natal origins of disease.  
Lecture: "implications of early childhood growth on adult cancer risk"
- Aug 2003 The Fifth International IGFBP Symposium, Stockholm, Sweden.  
Plenary Lecture: "The Ying and Yang of IGFBP-3"
- Nov 2003 Gerontological Society of America Annual Meeting, San Diego, CA.  
Lecture: "IGF and longevity in humans"
- Dec 2003 The Annual Meeting of the Asian Endocrine Society, Singapore.  
Plenary Lecture: "Clinical and molecular aspects of the IGFBPs"
- Jun 2004 Annual Somatomedin Club, New Orleans, LA  
Keynote Lecturer: the year in IGF science
- Jun 2004 Transpacific Lecture, Satellite Symposium to ENDO2004 New Orleans, LA  
Lecture: "Humanin – a new growth factor"
- Jan 2005 Gordon Research Conference Ventura CA  
"Mechanisms of action of IGFBPs"
- Jun 2005 Endocrine Society Annual Meeting Symposium. San Diego, CA  
"IGF-based Dosing Optimizes the Efficacy of GH Therapy"
- Jul 2005 NICHD grantee meeting, Bethesda MD  
Lecture: "IGF2 epigenetics and fetal growth"
- Jan 2006 Gordon Research Conference on Aging Ventura CA  
"IGF-related molecules in longevity and aging"
- Jan 2006 SPORE Annual Meeting, Houston Texas  
"Mechanisms of IGFBP-3 actions as an anti-prostate cancer agent"
- May 2006 NIH Conference on Nuclear Receptors and Aging  
Lecture: "IGFBP-3 interactions with nuclear receptors"
- Nov 2006 4<sup>th</sup> International Joint Meeting of the GRS and IGF-Society, Kobe, Japan  
"Chemotype: The Interface Between Genotype and Phenotype"
- May 2007 American Pediatric Society Annual meeting, Toronto CA  
APS Best Science Award Lecture: "Unraveling the functions of IGFBPs"
- Jun 2007 Endocrine Society Annual meeting, Toronto CA  
Plenary Lecture: "The GH IGF axis in aging and Longevity"
- Dec 2007 AFAR symposium on Aging. Genome maintenance, and Metabolism  
Lecture: "Growth factors, aging, and cancer"
- May 2008 LWPES/PAS Annual Meeting, Honolulu Hawaii  
Lecture: Consensus Statement on ISS

- Oct 2008 15<sup>th</sup> Prostate Cancer Foundation Meeting, Lake Tahoe  
IGFs Integrate Genetic and Environmental Signals to Control Longevity and Health
- Apr 2009 Milken Institute Global Conference  
Lecture: Strategies for enhancing health span and life span
- Sep 2009 ESPE/LWPES Joint Meeting, New York  
Plenary Lecture: GH, IGF, Aging and Longevity
- Sep 2009 Annual AFAR meeting, Santa Barbara  
Keynote Lecture: Mitochondrial-derived peptides: retrograde signals for metabolism
- Mar 2010 The Kroc Professorship and Lecture, Stanford University  
Lecture: Mitochondrial Peptides in Health and Disease
- May 2010 FDA Advisory Panel for EGRIFTA (Tesamorelin, a GHRH analogue), Rockville MD  
Presentation: Managing Risks Associated with IGF-I Elevations
- Jun 2010 The Glenn Symposium on Aging, Harvard University  
Lecture: Novel Mitochondrial Peptides and their role in aging
- Aug 2010 Gordon Research Conference on the Biology of Aging, Les Diablerets, Switzerland  
Lecture: Longevity: insulin versus IGF pathways
- Nov 2010 National Diabetes Centers Director Meeting, NIH  
Lecture: State of the Art: Pilot and Feasibility Grants
- Mar 2011 Cell Symposia – Metabolism and Aging – Cape Cod MA  
Lecture: A novel family of mitochondrial-derived peptides in their role in Metabolism
- Jun 2011 Endocrine Society Annual Meeting, Boston MA - Plenary Lecture  
Lecture: Humanin, MDPs, and the Expanding Role of the Mitochondria
- Oct 2011 Serono Symposium, Buenos Aires, Argentina - Plenary Lecture  
Lecture: The mitochondria as an endocrine organelle
- Nov 2011 AFES Meeting, Ho Chi Minh City, Vietnam - Plenary Lecture  
Healthy aging as a “cradle to grave” phenomena integrating genetics & lifestyle
- Feb 2012 Gordon Research Conference on Aging, Ventura CA  
Lecture: “The role of the Mitochondria in Aging”
- Mar 2012 New Approaches to GH Treatment Meeting, Nice France  
Lecture: “Personalized Medicine for GH: IGF-based Dosing”
- Mar 2012 ANSWER Investigator meeting, Dallas TX  
Lecture: “Optimizing Pharmaco-economics of Growth Hormone Therapy”
- Mar 2012 AACE Annual meeting, Philadelphia PA  
Lecture: “GH safety revisited 2012: Beyond SAGhE”
- Jun 2012 Glen Foundation Annual Meeting, Santa Barbara CA  
Lecture: “Humanin and aging”

- Jun 2012 Endocrine Society Annual Meeting  
Lecture: "IGF-based GH dosing is Dose Sparing and Safety-Enhancing"
- Jun 2012 Peking University, Institute for Population Health  
Lecture: "Healthy Aging in the 21<sup>st</sup> Century"
- Nov 2012 Gerontological Society of America Annual Meeting, San Diego  
Lecture: "Complex Relationships between growth hormone and aging"
- Nov 2012 World Congress on Insulin Resistance, Studio City  
Lecture: "Humanin: a novel anti-diabetic, atherosclerosis-preventing peptide"
- Mar 2013 European Society of Bio-gerontology, Dead Sea, Israel  
Lecture: "Mitochondrial Peptides and aging"
- Apr 2013 Milken Institute Global Conference, Los Angeles CA  
Lecture: "The Longevity Economy – Riding the Demographic Wave"
- May 2013 Society of Pediatric Research, Wash DC  
Lecture: "Consensus Statements and Guidelines for GH therapy"
- May 2013 USC Global Conference, Seoul, Korea  
Lecture: "Challenges and Opportunities for aging in Asia"
- June 2013 IAGG, Seoul, Korea  
Lecture: "humanin like peptides in aging and longevity"
- July 2013 Yamano College, Tokyo Japan  
Lecture: "The Science of Aesthetics and Aging"
- Oct 2013 Bloomberg Longevity Economy Conference, New York  
Lecture: "Opportunities in Personalized Aging"
- Nov 2013 NIH Common Fund High Risk-High Reward Symposium, Bethesda MD  
Lecture: "Mitochondrial peptides and their roles in health and disease"
- Nov 2013 Gerontological Society of America Annual Meeting, New Orleans  
Lecture: "Humanin: a new GH-dependent regulator of Aging"
- Mar 2014 Milhaupt Symposium of The PLATO Society, Los Angeles  
Lecture: "Longevity in the 21<sup>st</sup> Century"
- Mar 2014 The National Lipid Association Meeting, Maui  
Lecture: "Mitochondrial Peptides as Therapeutic Targets in Atherosclerosis"
- Apr 2014 Milken Institute Global Conference, Los Angeles CA  
Lecture: "Personalized Aging"
- Jun 2014 American Aging Association 43<sup>rd</sup> Annual Meeting, San Antonio, Texas  
Lecture: "Translational Aspects of Mitochondrial Peptides in Aging"
- Oct. 2014 The Brazilian Endocrine Society, Curitiba  
Lecture: "Humanin is regulated by (and regulates) the GH-IGF axis"

- Nov. 2014 The Israel Alzheimer's Symposium  
Lecture: "Novel roles of the mitochondria and Mitochondrial Peptides in AD"
- Jan. 2015 The Beckman Institute for Macular Research Annual Meeting  
Lecture: "Mitochondrial Peptides - Drug Candidates for AMD"
- Mar 2015 The Gordon Conference on Oxidative Stress  
Lecture: "Mitochondrial-Derived Peptides in Diseases of Aging"
- Mar 2015 Endocrine Society Annual Meeting  
Lecture: "ISS – What it is and what it is not"
- Apr 2015 Milken Institute Global Conference, Los Angeles CA  
Lecture: "Prescription for Wellness: Extending Our Health Span"
- Jun 2015 AGE Annual Meeting, Marina del Rey, CA  
Lecture: "Advancing Translation in Aging Research"
- Jun 2015 Gavin Herbert Eye Institute *Bench to Bed* Symposium, Irvine, CA  
Lecture: "Mitochondrial Peptides in Macular Degeneration"
- Oct 2015 USC Global Conference, Shanghai, China  
Lecture: "Personalized Aging: The Nexus of Digital Technology and Genomic Science"
- Oct 2015 IAGG, Chiang Mai, Thailand  
Lecture: "Enhancement of Healthspan by humanin"
- Dec 2015 Glenn Symposium, Einstein, New York.  
Lecture: "Mitochondrial Peptides in Aging and Longevity"
- Feb 2016 Cedars Sinai Grand Rounds, Los Angeles.  
Lecture: "Harnessing the Mitochondria to Treat Cancer"
- Mar 2016 Milken Institute Public Health Summit  
Lecture: "A future of Healthy Aging"
- May 2016 NHLBI/NIDDK Mitochondrial Biology Symposium.  
Lecture: "Mitochondrial Peptides and their role in metabolic processes"
- Aug 2016 Rejuvenation Biotechnology Conference, Novato, Ca.  
Lecture: "Utilizing Mitochondrial Peptides to Extend Healthspan"
- Sep 2016 International Congress of Endocrinology, Beijing China.  
Lecture: "The mitochondria in Aging"
- Nov 2016 American Physiological Society Integrative Biology of Exercise, Phoenix, AZ.  
Lecture: "Mitochondrial Peptides Regulates Energy Homeostasis"
- Nov 2016 APPEP-JSPE Meeting, Tokyo, Japan.  
Lecture: "The Future of Growth Hormone Therapy"
- Jan 2017 Keystone Symposia on Omics Strategies to Study the Proteome  
Lecture: "Mitochondrial ORFomics and peptidomics"

- Mar 2017 National Institute of Environmental Health Sciences Keystone Lecture  
Lecture: "The Mitochondria and the Environment"
- Mar 2017 2<sup>nd</sup> Interventions in Aging Conference, Cancun  
Lecture: "New Insights into the Mitochondria and aging"
- Mar 2017 Gordon Research Conference, Ventura  
Lecture: "Interface between the IGF axis and the Mitochondria"
- Apr 2017 ASPET Annual Meeting in Experimental Biology, Chicago  
Lecture: "Mitochondrial-Derived Peptides: Physiology and Therapeutic Potential"
- May 2017 Milken Institute Global Conference, Los Angeles CA  
Panel Discussion with Francis Collins and Elizabeth Blackburn: "Living to A healthy 100"
- May 2017 Keystone Symposia on Mitochondria, Metabolism, and the Heart  
Lecture: "Mitochondrial-Derived Peptides and their Role in Vascular Disease"
- Jun 2017 Japanese Society of Gero-Dentology, Nagoya, Japan  
Lecture: "Personalized Aging – Implication for Oral Health"
- Sep 2017 11<sup>th</sup> Congress of the International Society of Nutrigenetics and Nutrigenomics,  
Lecture: "Nutrigenomics meets the Mitochondria"
- Oct 2017 The 8<sup>th</sup> Korea Healthcare Congress 2017  
Lecture: "How Technology will Change Healthcare and Hospital Practice"
- Oct 2017 The National Investment Center for Seniors Housing & Care (NIC)  
Lecture: "Genomics and drug development effects on memory care unit needs"
- Feb 2018 The 4<sup>th</sup> Annual USC Senior Living Executive Course  
Lecture: "New Insights into dementia– Implications for Memory Care Planning"
- Mar 2018 Tulane University - The 46<sup>th</sup> Annual Schüeler Distinguished Lecture in Pharmacology  
Lecture: "The Mitochondria in Health Disparity – Opportunities for Drug Development"
- April 2018 Oklahoma GeroScience Symposium  
Lecture: "Mitochondria in Aging"
- April 2018 Yonsei University Mitochondrial Biology Symposium, Korea  
Lecture: "Mitohormesis – a role for Mitochondrial-Derived Peptides?"
- April 2018 Japanese Endocrine Society  
Lecture: "A kinesio-genomic SNP in MOTS-c is a diabetes risk factor in Japanese men"
- Jun 2018 American Aging Association Annual Meeting, Philadelphia  
Lecture: "Mitochondrial-Derived Peptides: Novel Regulators in Diet and Exercise"
- Oct 2018 Barshop Symposium on Aging "Exercise Regulation of Biological Aging"  
Lecture: "MOTS-c is a Biomarker of Physical Activity"
- Nov 2018 Gerontological Society of America, Boston.  
Lecture: "MDPs: Novel Hormones That Regulate Metabolism During Aging"



- Feb 2019 International Conference on Frailty and Sarcopenia Research, Miami  
Lecture: "Trends in Anti-Aging Research Aimed at Extending the Healthspan"
- Mar 2019 University of Coimbra, Portugal  
Lecture: "Mitochondrial Biology as a Drug Discovery Platform"
- May 2019 American Aging Association Annual Meeting, San Francisco  
Lecture: "Systems Biology of the Mitochondria in Aging"
- June 2019 G20 Meeting – Forum on Aging. Tokyo, Japan  
Lecture: "Addressing the Challenges of an Aging Society Through Innovation"
- Sep 2019 International Perspectives on Geroscience, Weizmann Institute, Israel  
Lecture: "Systems Biology of the Mitochondria: Tools for Discovery of Aging Targets"
- Nov 2019 The Irving S. Wright Award of Distinction Lecture. GSA Meeting, Austin  
Lecture: "Endocrine Gerontology from IGFs to Mitochondrial Peptides"
- Feb 2020 University of Auckland Mitochondria Symposium, New Zealand  
Lecture: "Systems Biology of the Mitochondria in Exercise Physiology"
- Apr 2021 Mitochondria-Targeted Drug Development Summit, Boston  
Lecture: "Breakthrough Mitochondrial Science"
- May 2021 New York Academy of Sciences  
Lecture: "microproteins from the mitochondria"
- Oct 2021 Milken Institute Global Conference, Los Angeles CA  
Panel Discussion with Deepak Chopra & Jim Mellon: "Scientific Advances Upend Aging"
- Nov 2021 Hazzard Symposium – Wake Forest School of Medicine  
Keynote Address: "Mitochondrial peptides and their roles in Alzheimer's Disease"
- Apr 2022 Columbia University School of Medicine Grand Rounds  
Lecture: "Mitochondrial System Biology in Aging"
- Jun 2022 University of Pennsylvania School of Medicine Grand Rounds  
Lecture: "The New Biology of Mitochondrial microproteins"
- Jul 2022 Coimbra, Portugal - Ageing: from fundamental biology to societal impact  
Keynote Lecture: "Mitochondrial microproteins in Aging"
- Sep 2022 University of Washington, Seattle – Geriatrics Grand Rounds  
Keynote Lecture: "New insights into Alzheimer's Disease"
- Oct 2022 12<sup>th</sup> Alliance for Healthy Aging Meeting, Minneapolis MN  
Lecture: "Diagnostic Utility of Mitochondrial Microproteins"
- Jan 2023 Albert Einstein College of Medicine, Bronx NY  
Lecture: "The mitochondria in Aging and Longevity"
- Feb 2013 Nathan Shock Centers Seminar Series  
Mitochondrial Microproteins: Novel Therapeutic Targets for Aging-Related Disease

- Jun 2023 Pituitary Society meetings  
Growth Hormone Deficiency in the Elderly
- Jun 2023 UMDF United Mitochondrial Medicine Foundation Symposium  
Mitochondrial Microproteins: Novel Targets for Mitochondrial Diseases
- Aug 2023 3<sup>rd</sup> Bi-Annual Epstein Collaboration Investigator's Meeting  
SHMOOSE: A Novel mitochondrial AD-risk microprotein
- Sep 2023 3<sup>rd</sup> NIA Resilience AD Program Investigators' Meeting  
Humanin is an AD Resilience Factor through its Interaction with APOE4

**Bibliography (comprising an *h-index* of 105, an *i10 index* of 297, with >38,000 citations):****MyBibliography can be accessed at**

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3. Cohen P, Barzilai N, Bar-Ilan R, Yassin K, Karnieli E: Lack of suppression of insulin secretion by hyperinsulinemia in a patient with an insulinoma. *J Clin Endocrinol and Metab* 63:1411, 1986.
4. Cohen P, Barzilai N, Barzilai D, Karnieli E: Correlation between insulin clearance and insulin responsiveness: studies in normal, obese, hyperthyroid, and Cushing syndrome patients. *Metabolism* 1986.
5. Karnieli E, Armoni M, Cohen P, Kantor Y, Rafaeloff R: Reversal of insulin resistance in diabetic rat adipocytes by insulin therapy. *Diabetes* 36:925, 1987.
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