

August 29, 2018

Together with the entire faculty of the Endocrinology, Diabetes & Metabolism Section, I would like to welcome everybody to our 2018 Annual Report. 2018 has been an eventful year for us, with new unique contributions in research, scholarship, clinical care and education. The section has published more than 50 papers, many of them in top journals, and has been the recipient of an unprecedented six NIH R01 grants. We have been active in national and international meetings and organizations and offer daily medical care to the Houston community at the Baylor St. Luke's Medical Center, the Michael E. DeBakey VA Medical Center, Ben Taub General Hospital, Smith Clinic and the St. Thomas Street Clinic. Our trans-institutional fellowship program with MD Anderson Cancer Center and Texas Children Hospital graduates five outstanding new endocrine fellows every year. As we are about to enter the third decade of the XXI century, our faculty is 100% committed to advance the science and clinical practice of endocrinology, diabetes & metabolism to the next level. Please enjoy and thank you for your interest.

A handwritten signature in black ink, appearing to read "Marco Marcelli". The signature is fluid and cursive, with a prominent initial "M" and a long, sweeping tail.

Marco Marcelli M.D.

Ad interim chief

Section of Endocrinology, Diabetes & Metabolism

**Section of Endocrinology, Diabetes and Metabolism
Department of Medicine, Baylor College of Medicine
(1 July 2017–30 June 2018)**

Faculty

Agarwal, Neeti Ph.D.	McKay, Siripoom M.D.
Bajaj, Mandeep M.D.	Mediwala, Sanjay N M.D.
Balasubramanyam, Ashok M.D.	Mehta, Munira O.D.
Boparai, Jasmine M.D.	Pietro Paolo, Massimo M.D.
Chen, Rui M.D.	Ram, Nalini M.D.
Dufrane, Nancy Greta Renee	Samson, Susan Leanne M.D.
Gaba, Ruchi M.D.	Sekhar, Rajagopal Viswanath M.D.
Garber, Alan J M.D., Ph.D.	Sun, Zheng Ph.D.
Ha, Ngueyn M.D.	Vasudevan, Madhuri M.D., M.P.H.
Hartig, Sean Ph.D.	Villareal, Dennis M.D.
Jiang, Bryan M.D.	Villareal, Reina M.D.
Marcelli, Marco M.D.	Zhang, Li Ph.D.

Contents

A. Publications.....	3
B. Awards and Honors.....	8
C. Books and Book Chapters.....	9
D. Professional Organization/Association Offices Held.....	10
E. Editorial Board Memberships and Editorial Positions.....	12
F. Grants.....	13

A. Publications

1. **Acevedo-Calado M**, James EA, Morran MP, **Pietropaolo SL**, **Ouyang Q**, Arribas-Layton D, Songini M, Liguori M, Casu A, Auchus RJ, Huang S, Yu L, Michels A, Gianani R, **Pietropaolo M**. Identification of Unique Antigenic Determinants in the Amino Terminus of IA-2 (ICA512) in Childhood and Adult Autoimmune Diabetes: New Biomarker Development. **Diabetes Care** 2017;40:561-568. PMID: 28174261.
2. Agarwal N, Iyer D, Gabbi C, **Saha P**, Patel SG, Mo Q, Chang B, Goswami B, Schubert U, Kopp JB, Lewis DE, Balasubramanyam A. HIV-1 viral protein R (Vpr) induces fatty liver in mice via LXR α and PPAR α dysregulation: implications for HIV-specific pathogenesis of NAFLD. **Scientific Reports** 2017;7:13362. PMID: 29042644
3. Aguirre LE, Colleluori G, Dorin R, Robbins D, Chen R, **Jiang B**, Qualls C, Villareal DT, Armamento-Villareal R. Hypogonadal Men with Higher Body Mass Index have Higher Bone Density and Better Bone Quality but Reduced Muscle Density. **Calcif Tissue Int.** 2017;101:602. PMID:28856390
4. Bader DA, **Hartig SM**, Putluri V, Foley C, Hamilton MP, Smith EA, Saha P, Panigrahi A, Walker C, Zong L, Martini-Stoica H, Chen R, Rajapakshe K, Coarfa C, Sreekumar A, Mitsiades N, Bankson JA, Ittmann MM, Putluri N, McGuire SE. "Mitochondrial Pyruvate Import is a Metabolic Vulnerability in Prostate Adenocarcinoma," **Nat Met** 2018. In press
5. Bai S, Fu K, Yin H, Cui Y, Yue Q, Li W, Cheng L, Tan H, Liu X, Guo Y, Zhang Y, Xie J, He W, Wang Y, Feng H, Xin C, Zhang J, Lin M, Shen B, **Sun Z**, Guo X, Zheng K, Ye L. Sox30 initiates transcription of haploid genes during late meiosis and spermiogenesis in mouse testes. **Development** 2018;145 PMID: 29866902
6. Batsis JA and **Villareal DT**. Sarcopenic obesity in older adults: aetiology, epidemiology, and treatment strategies. **Nat Rev Endocrinology** 2018;14:513. PMID: 30065268
7. Birnbaum Y, **Bajaj M**, Yang HC, Ye Y. Combined SGLT2 and DPP4 Inhibition Reduces the Activation of the Nlrp3/ASC Inflammasome and Attenuates the Development of Diabetic Nephropathy in Mice with Type 2 Diabetes. **Diabetes Cardiovasc Drugs Ther** 2018;32:135. PMID: 29508169
8. Birnbaum Y, Ye Y, **Bajaj M**. Type 2 Diabetes and CVD: A Metabolic Overview of Recent Clinical Trials. **J Diabetes Complications** 2017;31:291. PMID: 27780670
9. Bloomgarden Z, Einhorn D, Handelsman Y, Misra A, Zonszein J, Grunberger G, Jellinger PS, **Garber AJ**. ACP diabetes guidelines attempt to turn back the clock, conflating good HbA1c with hypoglycemia. **J Diabetes** 2018 PMID: 29655268 [Epub ahead of print]
10. Cieslik KA, **Sekhar RV**, Granillo A, Reddy A, Medrano G, Heredia CP, Entman ML, Hamilton DJ, Li S, Reineke E, Gupte AA, Zhang A, Taffet GE. Improved Cardiovascular Function in Old Mice After N-Acetyl Cysteine and Glycine Supplemented Diet: Inflammation and Mitochondrial Factors. **J Gerontol A Biol Sci Med Sci** 2018;73:1167. PMID: 29538624

11. Chen E, Tsai TH, Li L, **Saha P**, Chan L, Chang BH. PLIN2 is a Key Regulator of the Unfolded Protein Response and Endoplasmic Reticulum Stress Resolution in Pancreatic β Cells. **Scientific Reports**. 2017;7:40855. PMID: 28102311
12. Chen Y, Chen H, Birnbaum Y, Nanhwan MK, **Bajaj M**, Ye Y, Qian J. Aleglitazar, a dual PPAR α and PPAR γ agonist, protects cardiomyocytes against the adverse effects of hyperglycemia. **Diab Vasc Dis Res** 2017;14:152. PMID 28111985
13. Colleluori G, Aguirre L, Dorin R, Robbins D, Blevins D, Barnouin Y, Chen R, Qualls C, **Villareal DT**, Armamento-Villareal R. Hypogonadal men with type 2 diabetes mellitus have smaller bone size and lower bone turnover. **Bone** 2017;99:14. PMID: 28323146
14. Colleluori G, Chen, R., Napoli N, Aguirre LE, Qualls C, Villareal DT, Armamento-Villareal R, Fat Mass Follows a U-Shaped Distribution Based on Estradiol Levels in Postmenopausal Women. *Frontiers in Endocrinology*, **Front Endocrinol** (Lausanne) 2018;9:315. PMID: 30013511
15. Colleluori G, Napoli N, Phadnis U, Armamento-Villareal RC, **Villareal DT**. Effect of weight loss, exercise, or both on undercarboxylated osteocalcin and insulin secretion in frail, obese older adults. **Oxid Med Cell Longev** 2017;4807046. PMID: 28951766
16. Cui C, Jiang X, Ju W, Wang J, Wang D, **Sun Z**, Chen M. Atrial remodeling and metabolic dysfunction in idiopathic isolated fibrotic atrial cardiomyopathy. **Int J Cardiol**. 2018;265:155. PMID: 29706431
17. Duerrscheidt C, He Y, Wang C, Li C, Bournat JC, Romere C, **Saha PK**, Lee ME, Phillips KJ, Jain M, Jia P, Zhao Z, Farias M, Wu Q, Milewicz DM, Sutton VR, Moore DD, Butte NF, Krashes MJ, Xu Y, Chopra AR. Asprosin is a centrally acting orexigenic hormone. **Nat Med** 2017; 23:1444. PMID: 29106398
18. Fonseca VA, Bloomgarden ZT, Dagogo-Jack S, Grunberger G, Einhorn D, **Garber AJ**, Handelsman Y, Hirsch IB, Umpierrez GE. AACE Position Statement on the Use of Follow-On Biologics and Biosimilars for Endocrine Diseases. **Endocr Pract** 2017;23:1345. PMID: 29190135
19. Foster JG, Wood SK, Pfeffer MA, DeMets DL, **Garber AJ**, Hennekens CH. Aspirin in Primary Prevention for Patients with Type 2 Diabetes. **Endocr Pract**. 2018 July 5. PMID: 29975578 [Epub ahead of print]
20. Galvan DL, Badal SS, Long J, **Chang BH-J**, Schumacker PT, Overbeek PA, Danesh FR. Real-time in vivo mitochondrial redox assessment confirms enhanced mitochondrial reactive oxygen species in diabetic nephropathy. **Kidney Int**. 2017;92:1282. PMID: 28754553
21. **Garber AJ**, Abrahamson MJ, Barzilay JJ, Blonde L, Bloomgarden ZT, Bush MA, Dagogo-Jack S, DeFronzo RA, Einhorn D, Fonseca VA, Garber JR, Garvey WT, Grunberger G, Handelsman Y, Henry RR, Hirsch IB, Jellinger PS, McGill JB, Mechanick JI, MD, Rosenblit PD, and Umpierrez GE. Consensus Statement by the American Association of Clinical Endocrinologists and the American College of Endocrinology on the Comprehensive Type 2 Diabetes Management Algorithm – 2017 Executive Summary. **Endocr Pract**. 2017;23:207. PMID: 28095040

22. **Garber AJ**, Abrahamson MJ, Barzilay JJ, Blonde L, Bloomgarden ZT, Bush MA, Dagogo-Jack S, DeFronzo RA, Einhorn D, Fonseca VA, Garber JR, Garvey WT, Grunberger G, Handelsman Y, Henry RR, Hirsch IB, Jellinger PS, McGill JB, Mechanick JI, MD, Rosenblit PD, and Umpierrez GE. American Association of Clinical Endocrinologists and the American College of Endocrinology Comprehensive Type 2 Diabetes Management Algorithm, Consensus Statement and Executive Summary - 2018. **Endocr Pract.** 2018;24:91. PMID: 29368965
23. Garcia JM, Biller BMK, Korbonits M, Popovic V, Luger A, Strasburger CJ, Chanson P, Swerdloff RS, Pekic-Djurdjevic R, Blevins TC, **Marcelli M**, Medic M, Schopohl J, Ammer N, Sachse R and Yuen KCJ Validation of Macimorelin as a Diagnostic Test for Adult Growth Hormone Deficiency (AGHD): A Phase 3 Study in Comparison with the Insulin Tolerance Test (ITT). **J Clin Endocrinol Metab** 2018;103:3083. PMID 29860473
24. Gong Y, Cao R, Ding G, Hong S, Zhou W, Lu W, Damle M, Fang B, Wang CC, Qian J, Lie N, Lanzillotta C, Rabinowitz JD, **Sun Z**. Integrated omics approaches to characterize a nuclear receptor corepressor-associated histone deacetylase in mouse skeletal muscle. **Mol Cell Endocrinol.** 2018;471:22. PMID:28554803
25. Grunberger G, Handelsman Y, Bloomgarden ZT, Fonseca VA, **Garber AJ**, Haas RA, Roberts VL, Umpierrez GE. American Association of Clinical Endocrinologists and the American College of Endocrinology 2018 Position Statement on Integration of Insulin Pumps and Continuous Glucose Monitoring in Patients with Diabetes Mellitus. **Endocr Pract** 2018;24:302. PMID: 295547046
26. Hong S, Zhou W, Fang B, Lu W, Loro E, Damle M, Ding G, Jager J, Zhang S, Zhang Y, Feng D, Chu Q, Dill BD, Molina H, Khurana TS, Rabinowitz JD, Lazar MA, **Sun Z**. Dissociation of muscle insulin sensitivity from exercise endurance in mice by HDAC3 depletion. **Nat Med** 2017;23:223. PMID: 27991918
27. James EA, **Pietropaolo M**, Mamula MJ. Immune recognition of β -Cells: Neoepitopes as key players in the loss of tolerance. **Diabetes.** 2018;67:1035. PMID: 29784651
28. Jellinger P, Handelsman Y, Bell D, Bloomgarden Z, Brinton E, Davidson M, Fazio S, Fonseca V, **Garber A**, Grunberger G, Guerin C, Mechanick J, Pessah-Pollack R, Rosenblit P, Smith D, and Wyne K. AACE/ACE Guidelines for Management of Dyslipidemia and Prevention of Cardiovascular Disease. **Endocr Pract.** 2017;23:479. PMID: 2815615
29. Jia X, Alam M, Ye Y, **Bajaj M**, Birnbaum Y. GLP-1 Receptor Agonists and Cardiovascular Disease: a Meta-Analysis of Recent Cardiac Outcome Trials. **Cardiovasc Drugs Ther** 2018;32:65. PMID: 29445896
30. **Jiang BC**, Cowart JB, Barshes NR. Acute kidney injury associated with foot osteomyelitis. **Clin Med** 2017;17:376. PMID: 28765424.
31. Jois T, Chen W, Howard V, Harvey R, Youngs K, Thalmann C, **Saha P**, Chan L, Cowley MA, Sleeman MW. Deletion of hepatic carbohydrate response element binding protein (ChREBP) impairs glucose homeostasis and hepatic insulin sensitivity in mice. **Mol Metabolism** 2017; 6:1381. PMID: 29107286
32. Kim J, Kim J, Kwak MJ, **Bajaj M**. Genetic prediction of type 2 diabetes using deep neural network. **Clin Genet.** 2018;93:822. PMID: 29136281

33. Kim KH, Choi S, Zhou Y, Kim EY, Lee JM, **Saha PK**, Anakk S, Moore DD. Hepatic FXR/SHP axis modulates systemic glucose and fatty acid homeostasis in aged mice. **Hepatology**. 2017; 66:498. PMID: 28378930
34. Koh EH, Chernis N, **Saha PK**, Xiao L, Bader DA, Zhu B, Rajapakshe K, Hamilton MP, Liu X, Perera D, Chen X, York B, Trauner M, Coarfa C, Bajaj M, Moore DD, Deng T, McGuire SE, **Hartig SM**. miR-30a Remodels Subcutaneous Adipose Tissue Inflammation to Improve Insulin Sensitivity in Obesity. **Diabetes** 2018; PMID: 30002134 *In Press*
35. Maldonado M, Molfese DL, Viswanath H, Curtis K, Jones A, Hayes TG, **Marcelli M**, **Mediwala S**, Baldwin P, Garcia JM, Salas R. The habenula as a novel link between the homeostatic and hedonic pathways in cancer-associated weight loss: a pilot study. **J Cachexia Sarc and Muscle** 2018;9:497. PMID: 29575771
36. Mansueto G, Armani A, Viscomi C, D'Orsi L, De Cegli R, Polishchuk EV, Lamperti C, Di Meo I, Romanello V, Marchet S, **Saha PK**, Zong H, Blaauw B, Solagna F, Tezze C, Grumati P, Bonaldo P, Pessin JE, Zeviani M, Sandri M, Ballabio A. Transcription Factor EB Controls Metabolic Flexibility during Exercise. **Cell Metabolism** 2017;25:182. PMID: 28011087
37. Mitre TM, **Pietro Paolo M**, Khadra A. The dual role of autoimmune regulator in maintaining normal expression level of tissue-restricted autoantigen in the thymus: A modeling investigation. **Math Biosci** 2017;287:12. PMID: 27765528
38. Mulukutla SN, Hsu JW, Gaba R, Bohren KM, Guthikonda A, Iyer D, Ajami NJ, Petrosino JF, Hampe CS, Ram N, Jahoor F, **Balasubramanyam A**. **J Nutr** Arginine Metabolism Is Altered in Adults with A- β + Ketosis-Prone Diabetes 2018;148:185. PMID: 29490093
39. Pahor, M., Kritchevsky, S.B., Waters, D.L., **Villareal, D.T.**, Morley, J., Hare, J.M., and Vellas, B. Designing Drug Trials for Frailty: ICFSR Task Force 2018. **J Frailty Aging** 2018;7:150. PMID: 30095144
40. Pradhan G, Wu C-S, Lee JH, Kanikarla P, Guo S, **Ye choor V**, **Samson S**, **Sun Y**. Obestatin stimulates glucose-induced insulin secretion through ghrelin receptor GHS-R. **Nature Scientific Reports** 2017;7:929. PMID: 28428639
41. Poleshko A, Shah PP, Gupta M, Babu A, Morley MP, Manderfield LJ, Ifkovits JL, Calderon D, Aghajanian H, Sierra-Pagán JE, **Sun Z**, Wang Q, Li L, Dubois NC, Morrissey EE, Lazar MA, Smith CL, Epstein JA, Jain R. Genome-Nuclear Lamina Interactions Regulate Cardiac Stem Cell Lineage Restriction. **Cell** 2017;171:573. PMID: 29033129
42. Racette SB, Rochon J, Uhrich ML, **Villareal DT**, Das SK, Fontana L, Bhapkar M, Martin CK, Redman LM, Fuss PJ, Roberets SV, Kraus WE. Effects of two years of calorie restriction on aerobic capacity and muscle strength. **Med Sci Sports Exerc** 2017;49:2240. PMID: 29045325
43. Swift LL, Love JD, Harris CM, **Chang BH-J**, Jerome WG. 2017. Microsomal triglyceride transfer protein contributes to lipid droplet maturation in adipocytes. **PLoS One**. 12:e0181046. PMID: 28793320
44. Szafran TA, **Marcelli M**, Mancini MA High content screening of a library of 145 FDA approved drugs for the identification of novel inhibitors of AR and AR variant-7 The **Prostate** 2017;77:82. PMID: 27699828

45. Tsai TH, Chen E, Li L, **Saha P**, Lee HJ, Huang LS, Shelness GS, Chan L, Chang BH. The constitutive lipid droplet protein PLIN2 regulates autophagy in liver. **Autophagy**. 2017; 13:1130. PMID: 28548876
46. **Villareal DT**, Waters DL, Qualls C. Exercise type in dieting obese older adults. **N Engl J Med** 2017;377:599. PMID: 28792874
47. Wei Q, Lee JH, Wang H, Bongmba OYN, Wu CS, Pradhan G, Sun Z, Chew L, **Bajaj M**, Chan L, Chapkin RS, Chen MH, Sun Y. Adiponectin is required for maintaining normal body temperature in a cold environment. **BMC Physiol** 2017;17:8. PMID: 29058611
48. Xiong M, Zhu Z, Tian S, Zhu R, Bai S, Fu K, Davis JG, **Sun Z**, Baur JA, Zheng K, Ye L. Conditional ablation of Raptor in the male germ line causes infertility due to meiotic arrest and impaired inactivation of sex chromosomes. **FASEB J**. 2017;31:3934 PMID: 28490482
49. Ye Y, **Bajaj M**, Yang HC, Perez-Polo JR, Birnbaum Y. SGLT-2 Inhibition with Dapagliflozin Reduces the Activation of the Nlrp3/ASC Inflammasome and Attenuates the Development of Diabetic Cardiomyopathy in Mice with Type 2 Diabetes. Further Augmentation of the Effects with Saxagliptin, a DPP4 Inhibitor. **Cardiovasc Drugs Ther** 2017;31:119. PMID: 28447181
50. Zhang L, Sosinowski T, **Cox RA**, Cepeda JR, Sekhar NS, **Hartig SM**, Miao D, Yu L, **Pietropaolo M**, Davidson HD. Chimeric antigen receptor (CAR) T cells targeting a pathogenic MHC class II:peptide complex modulate the progression of autoimmune diabetes. **J Autoimmun** *In press*
51. Zhang Y, Papazyan R, Damle M, Fang B, Jager J, Feng D, Peed LC, Guan D, **Sun Z**, Lazar MA. The hepatic circadian clock fine-tunes the lipogenic response to feeding through ROR α / γ . **Genes Dev** 2017;31:1202. PMID: 28747429
52. Zhao N, Cao J, Xu L, Tang Q, Dobrolecki LE, Lyu X, Talukdar M, Lu Y, Wang X, Hu D, Shi Q, Xiang Y, Wang Y, Liu X, Bu W, Jiang Y, Li M, Gong Y, Sun Z, Ying H, Yuan B, Lin X, Feng XH, **Hartig SM**, Li F, Shen H, Chen Y, Han L, Zeng Q, Patterson J, Kaiparettu BA, Putluri N, Sicheri F, Rosen JM, Lewis MT, Chen X. Pharmacological Targeting of MYC-Regulated IRE1 α /XBP1 Pathway Suppresses MYC-Driven Breast Cancer **J Clin Invest** 2018;128:1283. PMID: 29480818

B. **Awards and Honors**

1. **Bajaj:** Prof. Sevim Büyükdevrim Lecture, Turkish Diabetes Association 54th National Diabetes Congress, Antalya, Turkey.
2. **Bajaj:** The Best Doctors in America, Best Doctors 2017-18.
3. **Bajaj:** Top Doctors, Houstonia Magazine 2017
4. **Garber:** Albert Nelson Marquis Lifetime Achievement Award
5. **Garber:** Best Doctors in America
6. **Garber:** Master of the American College of Endocrinology
7. **Garber:** Who's Who in the World
8. **Hartig:** Baylor College of Medicine Nominee, ADA Pathway to Stop Diabetes Award
9. **Marcelli:** Best Doctors in America
10. **Ram:** Norton Rose Award in Teaching and Evaluation Spring 2018
11. **Ram:** Houston's Top Physicians 2017 Castle Connolly
12. **Sekhar:** Second Place, Baylor Medicine Research Symposium, April 2018. Optimal glycemic control may not be enough to prevent risk of diabetic complications – novel role of glutathione and oxidative stress
13. **Sekhar:** Second Place, Baylor Medicine Research Symposium, April 2018. Reversing accelerated aging in HIV patients - metabolic and mitochondrial mechanisms
14. **Sekhar:** Star Award For Excellence in Patient Care, Baylor College of Medicine, 2017.
15. **R.Villareal:** Research Award: "Certificate of Excellence", Director's Townhall Meeting, November 1, 2017, MEDVAMC.
16. **Wang:** AACR Workshop on Integrative Molecular Epidemiology, Boston, MA

C. Books and Book Chapters

1. Workeneh B, **Bajaj M**. Nutritional Considerations in Patients with Diabetes and Kidney Disease. In William E. Mitch and T. Alp Ikizler (Eds), Handbook of Nutrition and the Kidney, 7th Edition, Wolters Kluwer, 91-100, 2018.
2. Samson SL and **Garber AJ**, 2018: Type 2 Diabetes. In JL Chiasson (ed). Encyclopedia of Endocrine Diseases, 2nd Edition. Elsevier (in press).
3. Shah B and **Samson SL**. 2017. Hyponatremia. In, Conn's Current Therapy (Bope ET and Kellerman RD, eds.), Elsevier.
4. **Samson S** and **Garber A**. 2018. Diabetes, Type 2. Huhtaniemi I, (ed.) In, Encyclopedia of Endocrine Diseases, 2nd Edition. In press, Elsevier
5. **Sekhar RV** Invitation from the American Academy of HIV Medicine (AAHIVM) to contribute two chapters for the 3rd Edition of the book 'Fundamentals of HIV Medicine 2019': The chapters are 'Endocrine Disorders in HIV' and 'HIV lipodystrophy and lipoatrophy'.
6. **Sekhar RV** Invitation from Springer Nature Publications to contribute two Chapters to the 'Encyclopedia of Gerontology and Population Aging 2019'. Chapters include 'Human aging and metabolism' and 'Oxidation damage accumulation aging theory'
7. **Marcelli M**, "The androgen receptor" In Hohl A (ed) "Testosterone: From Basic to Clinical Aspects" Springer (NY) **2017**, 21-73.
8. **Mediwala SN, Marcelli M** "Endocrine abnormalities in the HIV patient" in Shandera W (ed) "The Sub-Specialty Care of HIV-Infected Patients " Nova Science Publishers. 2018. Chapter 6,129-174

D. Professional Organization/Association Offices Held

1. **Garber A:** American Association of Clinical Endocrinologists
2. **Garber A:** American College of Endocrinology
3. **Garber A:** American Diabetes Association
4. **Garber A:** American Medical Association
5. **Garber A:** National Lipid Association
6. **Garber A:** The Endocrine Society
7. **Garber A:** AACE/ACE Committees/Task Forces
 - Board of Directors
 - Advisor to the President
 - Lipids Scientific Committee
 - Obesity Scientific Committee
 - Obesity Resource Center
 - Chair, AACE/ACE Task Force to Update the Comprehensive Diabetes Management Algorithm
 - Finance Committee
 - Diabetes Scientific Committee
 - Task Force on Consensus Conference on the Endocrinology of Aging
 - Task Force to Develop AACE's Position on the Integration of Insulin Pumps and Continuous Glucose Monitoring
 - Task Force to Update the Insulin Pump Management Consensus Statement
 - ACE Center for Transcultural Endocrinology Steering Committee
 - Nominating Committee
 - Task Force to Develop the AACE/ACE Lipids Algorithm
 - Chair, AACE Journals Task Force
8. **Hartig S:** Faculty, The Endocrine Society Career Development Workshop
9. **Hartig S:** Abstract reviewer, The Endocrine Society's 100th Annual Meeting, Chicago, IL
10. **Hartig S:** Ad-hoc member, NIH CSR Cellular Aspects of Diabetes and Obesity Study Section (CADO)
11. **Marcelli M:** Abstract reviewer, The Endocrine Society's 100th Annual Meeting, Chicago, IL
12. **Marcelli M:** The Endocrine Society
13. **Marcelli M:** Elected member Southern Society of Medical Investigation
14. **Pietro Paolo M:** Reviewer, Special Emphasis Panel (SEP) Study Section [ZRG1-EMNR-B (50) M]. PAR-16-121: "Early-Stage Preclinical Validation of Therapeutic Leads for Diseases of Interest to the NIDDK (R01)" 3/2017.
15. **Pietro Paolo M:** Reviewer for R01 and R21 grants. Kidney, Nutrition, Obesity and Diabetes Study Section (KNOD, NIDDK); 05/2018
16. **Pietro Paolo M:** Chair, Immunology, Immunogenetics, & Transplantation Planning Committee for the 2018 National Conference of the American Diabetes Association, Orlando, FL.

17. **Samson S:** Elected Member, Board of Directors of the American Association of Clinical Endocrinologists
18. **Samson S:** Member, Board of Trustees, American College of Endocrinology
19. **Samson S:** Elected member, Council of the American Program Directors of Endocrinology and Metabolism (APDEM)
20. **Samson S:** Member, American Board of Internal Medicine, Self-assessment committee
21. **Samson S:** Member, American Board of Internal Medicine, Item-writing Task Force
22. **Samson S:** Chair, American Association of Clinical Endocrinologists National Congress Annual Program Committee Annual Congress, American Association of Clinical Endocrinologists
23. **Samson S:** Vice-Chair, Endocrine University Planning Committee of the American College of Endocrinology
24. **Samson S:** Member, Expert Group on Pituitary Tumors, The Pituitary Society
25. **Samson S:** Member, Committee for Professional Education, The Pituitary Society
26. **Villareal R:** American Society for Bone and Mineral Research
27. **Villareal R:** The Endocrine Society
28. **Villareal R:** American Association of Clinical Endocrinologists
29. **Villareal R:** American College of Physicians
30. **Villareal D:** National Institute on Aging Clinical Trials Advisory Panel (CTAP)
31. **Villareal D:** Task Force on Sarcopenia and Frailty, International Conference on Sarcopenia and Frailty, Miami, FL
32. **Villareal D:** Data and Safety Monitoring Board for the following NIH grant projects
 - a. "Maintenance of Skeletal Integrity in Frail Elders" (RO1-AG050302)
 - b. "Skeletal Muscle and Insulin Resistance in Aging (RO1-AG021961); Chairperson of the DSMB
 - c. "Combining Testosterone Therapy to Improve Function Post Hip Fracture (RO1 AG051647)
33. **Villareal R:** Empowered with Movement to Prevent Obesity & Weight Regain" (RO1AG051624)

E. Editorial Board Memberships and Editorial Positions

1. **Bajaj:** Editorial Board, The Journal of Clinical Endocrinology and Metabolism
2. **Bajaj:** Associate Editor, British Medical Journal Open Diabetes Research and Care
3. **Garber:** Editor, Endocrine Today
4. **Garber:** Editor (Emeritus), Diabetes, Obesity and Metabolism
5. **Marcelli:** Associate Editor: Journal of Investigative Medicine
6. **Pietropaolo:** Associate Editor, Diabetes
7. **Pietropaolo:** Associate Editor, PLoS ONE
8. **Pietropaolo:** Editorial Board, American Journal of Clinical and Experimental Immunology
9. **Pietropaolo:** Editorial Board, Autoimmunity Highlights
10. **Sun:** Editor, Research Topic: Type 2 Diabetes Management: A Focus on Metabolic Defects. Frontiers in Physiology. 2018
11. **Villareal R:** Associate Editor, Frontiers in Endocrinology
12. **Villareal D:** Associate Editor, Journal of Nutrition in Geriatrics and Gerontology
13. **Villareal D:** Academic Editor, Current Developments in Nutrition
14. **Villareal D:** Associate Editor, Journal of Gerontology – Medical Science
15. **Villareal D:** Section Editor: Obesity and Aging, Journal of Nutrition in Health and Aging

F. Grants

MEDICINE – ENDOCRINOLOGY

	NIH	Other Federal	Non-Federal	Cash	Total
MEDICINE: ENDOCRINOLOGY	\$3,649,028.00	\$0.00	\$1,388,236.10	\$67,906.80	\$5,105,170.90
TOTALS	\$3,649,028.00	\$0.00	\$1,388,236.10	\$67,906.80	\$5,105,170.90

**Grants and Contracts Awarded
07/01/2017 - 06/30/2018**

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<u>Project Period</u>	<u>Total</u>
BALASUBRAMANY AM, ASHOK	NATIONAL INSTITUTE S OF HEALTH (NIH)	U01-DK098246- 06	YEAR 6: THE GLYCEMIA REDUCTION APPROACHES IN DIABETES: A COMPARATIVE EFFECTIVENESS STUDY (GRADE)	9/6/2017 - 7/31/2018	9/25/2012 - 7/31/2022	\$569,332.00
BALASUBRAMANY AM, ASHOK	NATIONAL INSTITUTE S OF HEALTH (NIH)	R33-AI116208- 03 Amd 3	YR 4: ADIPOSE TISSUE IS A SIGNIFICANT RESERVOIR FOR HIV	9/1/2017 - 8/31/2018	9/1/2014 – 8/31/2019	\$111,012.00

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<u>Project Period</u>	<u>Total</u>
BALASUBRAMANYAM, ASHOK	NATIONAL INSTITUTE S OF HEALTH (NIH)	R01-DK104832-03	(MPI) YEAR 3: ROLE OF ISLET INJURY AND AUTOIMMUNITY IN T2D BETA CELL DYSFUNCTION	9/1/2017 - 8/31/2018	9/16/2015 – 8/31/2020	\$353,493.00
GARBER, ALAN J	NOVO NORDISK, INC	023350 NCE	16TH ANNUAL SYMPOSIUM ON ADVANCED METABOLIC DISEASE MANAGEMENT FOR ENDOCRINE FELLOWS	6/1/2018 - 6/30/2018	----	\$0.00
GARBER, ALAN J	NOVO NORDISK, INC	MED-DIA-24942	17TH ANNUAL SYMPOSIUM ON ADVANCED DIABETES MANAGEMENT FOR ENDOCRINE FELLOWS	6/21/2018 - 6/20/2019	----	\$345,000.00
MARCELLI, MARCO	SHIRE HUMAN GENETIC THERAPIES, INC.	IME-USA-17539	ENDOCRINE GRAND ROUNDS	10/4/2017 - 10/3/2018	----	\$3,750.00
MARCELLI MARCO	DEPARTM ENT OF DEFENSE	W81XWH-17-1-0368 (Jorge R., PI)	PERSISTENT HORMONAL CHANGES IN VETERANS WITH GULF WAR ILLNESS	9/2017- 9/2020	----	\$615,171.00

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<u>Project Period</u>	<u>Total</u>
PIETROPAOLO, MASSIMO	CENTER FOR MEDICARE & MEDICAID INNOVATION (DHHS)	UC4-DK101108-01 Amd 4	YR 3/4: PERL - A MULTICENTER CLINICAL TRIAL OF ALLOPURINOL TO PREVENT GFR LOSS IN T1D.	8/1/2017 - 9/30/2017	8/1/2014 – 9/30/2017	\$5,939.00
PIETROPAOLO, MASSIMO	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-DK053456-15A1	YEAR 15: ENHANCEMENT OF BIOMARKERS FOR TYPE 1 DIABETES	7/1/2017 - 6/30/2018	5/1/1999 – 6/30/2022	\$668,366.00
PIETROPAOLO, MASSIMO	NATIONAL INSTITUTES OF HEALTH (NIH)	UC4-DK101108 02	PERL-YR1(SPINO): A MULTICENTER CLINICAL TRIAL OF ALLOPURINOL TO PREVENT GFR LOSS IN T1D	9/1/2017 - 8/31/2018	9/30/2013 – 6/30/2019	\$30,669.00
SAMSON, SUSAN LEANNE	NOVARTIS PHARMACEUTICALS CORP	NCE	THE EFFECT OF PASIREOTIDE AND COMBINATION WITH A GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONIST ON ISLET FUNCTION AND STRUCTURE	12/30/2017 - 6/1/2020	12/30/2017 – 6/1/2020	\$0.00
SEKHAR, RAJAGOPAL VISWANATH	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-AG054131 02	AGE-RELATED MILD COGNITIVE IMPAIRMENT AND THE PROTECTIVE ROLE OF GLUTATHIONE: IMPLICATIONS FOR ALZHEIMER'S DISEASE	6/1/2018 - 5/31/2019	9/5/2017 – 5/31/2022	\$477,413.00

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<u>Project Period</u>	<u>Total</u>
SUN, ZHENG	AMERICAN HEART ASSOCIATION INC	16GRNT30970064 Yr2	OBESITY-EPIGENOME INTERACTION IN HEART FAILURE	7/1/2017 - 6/30/2018	7/1/2016 – 6/30/2018	\$77,000.00
SUN, ZHENG	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-ES027544-02	YEAR 2: GENDER-SPECIFIC EFFECTS OF ARSENIC IN DIABETES	3/1/2018 - 2/28/2019	3/1/2017 – 2/28/2022	\$433,675.00
SUN, ZHENG	NATIONAL INSTITUTES OF HEALTH (NIH)	R21-CA215591-01	DE FACTO TARGET OF HISTONE DEACETYLASE INHIBITORS	9/1/2017 - 8/31/2018	9/1/2017 – 8/31/2019	\$172,369.00
VILLAREAL, DENNIS T.	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-DK109950-02	YR2 : DOES LIFESTYLE INTERVENTION IN OBESE OLDER ADULTS IMPROVE BONE QUALITY?	6/1/2018 - 5/31/2019	6/1/2017 – 5/31/2022	\$681,558.00
VILLAREAL, REINA	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-HD093047-01	AROMATASE INHIBITORS AND WEIGHT LOSS IN SEVERELY OBESE MEN WITH HYPOGONADISM	8/7/2017 - 5/31/2018	8/7/2017 – 5/31/2022	\$387,081.00

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<u>Project Period</u>	<u>Total</u>
VILLAREAL, DENNIS	VA MERIT REVIEW	1101 CX000906-01	TESTOSTERONE REPLACEMENT TO AUGMENT LIFESTYLE THERAPY IN OBESE OLDER VETERANS	01/1/15-12/31/18	----	\$483,794.00
ZHANG, LI	JUVENILE DIABETES RESEARCH FOUNDATION	2-SRA-2016-238-S-B Yr2	EVALUATION OF MONOCLONAL ANTIBODIES SPECIFICALLY TARGETING PATHOGENIC INSULIN/MHC II COMPLEXES FOR THE TREATMENT/PREVENTION OF TYPE 1 DIABETES	7/1/2017 - 6/30/2018	7/1/2016 – 6/30/2018	\$250,067.10
Totals:						\$5,037,264.10

CASH AWARDS
7/1/2017 - 6/30/2018

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Project Title</u>	<u>Fiscal Year</u>	<u>Total</u>
BAJAJ, MANDEEP	AMYLIN PHARMACEUTICALS	EXSCEL (EXENATIDE STUDY OF CARDIOVASCULAR EVENT LOWERING TRIAL)- A RANDOMIZED, PLACEBO CONTROLLED CLINICAL TRIAL TO EVALUATE CARDIOVASCULAR OUTCOMES AFTER TREATMENT WITH EXENATIDE ONCE WEEKLY IN PATIENTS WITH TYPE 2 DIABETES MELLITUS.	2018	\$3,692.31
BAJAJ, MANDEEP	ASTRAZENECA	THE EFFECT OF DAPAGLIFLOZIN ON INFLAMMATION AND ENDOTHELIAL DYSFUCTION	2018	\$32,461.54
SAMSON, SUSAN LEANNE	CHIASMA, INC.	AMENDMENT:A PHASE 3, RANDOMIZED, OPEN-LABEL, ACTIVE CONTROLLED, MULTICENTER STUDY TO EVALUATE MAINTENANCE OF RESPONSE, SAFETY AND PATIENT REPORTED OUTCOMES IN ACROMEGALY PATIENTS TREATED WITH OCTREOTIDE CAPSULES, AND IN PATIENTS TREATED WITH STANDARD OF CARE PARENTERAL SOMATOSTATIN RECEPTOR LIGANDS WHO PREVIOUSLY TOLERATED AND DEMONSTRATED A BIOCHEMICAL CONTROL ON BOTH TREATMENTS	2018	\$12,277.78
SAMSON, SUSAN LEANNE	CHIASMA, INC.	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, MULTICENTER STUDY TO EVALUATE SAFETY AND EFFICACY OF OCTREOTIDE CAPSULES IN PATIENTS WHO PREVIOUSLY TOLERATED AND DEMONSTRATED BIOCHEMICAL CONTROL ON INJECTABLE SOMATOSTATIN RECEPTOR LIGANDS (SRL) TREATMENT PROTOCOL OOC-ACM-303	2018	\$8,500.00
BALASUBRAMA NYAM, ASHOK	NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES (NIDDK)	CLINICAL CENTER # 3 - EMOTIONAL DISTRESS IN A COMPARATIVE EFFECTIVENESS TRIAL OF DIABETES TREATMENTS (EDS) -SUB-STUDY OF GRADE	2018	\$8,378.85
BAJAJ, MANDEEP	NOVO NORDISK PHARMACEUTICALS	EFFECT OF LIRAGLUTIDE TREATMENT ON GUT MICROBIOTA AND ADIPOSE TISSUE INFLAMMATION IN PATIENTS WITH TYPE 2 DIABETES MELLITUS	2018	(\$1,230.77)
SAMSON, SUSAN LEANNE	PROLOR BIOTECH, LTD	A PHASE 3, MULTICENTER STUDY DESIGNED TO EVALUATE THE EFFICACY AND SAFETY OF A LONG ACTING HGH PRODUCT (MOD-4023) IN ADULT SUBJECTS WITH GROWTH HORMONE DEFICIENCY (PROTOCOL NUMBER: CP-4-005)	2018	\$4,827.09
				\$67,906.80
Grand Totals:				\$5,105,170.90