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JOHN P. BILEZIKIAN, MD, PhD(hon)

Biographical Sketch

Dr. John P. Bilezikian, the Dorothy L. and Daniel H. Silberberg Professor of Medicine and Professor of Pharmacology at the College of Physicians & Surgeons, Columbia University is Vice Chair of the Department of Medicine for International Education and Research and Chief, Emeritus, of the Division of Endocrinology. He is Director, Emeritus, of the Metabolic Bone Diseases Program at Columbia University Medical Center. Dr. Bilezikian received his undergraduate training at Harvard College and his medical training at the College of Physicians & Surgeons. He completed four years of house staff training (internship, residency and Chief Residency) on the Medical Service at Columbia Presbyterian Medical Center. Dr. Bilezikian received his training in Metabolic Bone Diseases and in Endocrinology at the National Institutes of Health in the Mineral Metabolism Branch under the tutelage of Dr. Gerald Aurbach. He belongs to a number of professional societies including the American Society of Bone and Mineral Research, of which he served as President (ASBMR), 1995-1996 and the International Society of Clinical Densitometry (ISCD), of which he served as President, 1999-2001. He is a member of the Endocrine Society, the American Federation for Clinical Research, the American Society for Clinical Investigation, the Association of American Physicians, the American Association of Clinical Endocrinologists, the American Society for Pharmacology and Experimental Therapeutics, and the American College of Endocrinology that has designated him Master. He served on the Board of Governors of the International Osteoporosis Foundation (1999-2015) and is a current member of its Committee of Scientific Advisors. He is Chair of the Endocrine Fellows Foundation. He served as Editor-in-Chief of the *Journal of Clinical Endocrinology and Metabolism* and as Senior Associate Editor of the *Journal of Bone and Mineral Research*. He is Executive Advisory Editor of *Bone Research*. His books include Editor-in-Chief of *The Parathyroids* [1994, 2001, 2015], and co-editor of *The Aging Skeleton* (1999), *Dynamics of Bone and Cartilage Metabolism* (1999, 2006), *Principles of Bone Biology* (1996, 2002, 2008, 2018) and *Osteoporosis in Men* (2010). He is Editor-in-Chief of the Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism (2018). He has been on numerous panels, including serving as Chair of the NIH Consensus Development Panel on Optimal Calcium Intake (1994), Co-chair of the last three International Workshops on Primary Hyperparathyroidism (2002, 2008, 2013) and of the first International Workshops on Hypoparathyroidism (2015) and Controversies in Vitamin D (2017). He is a major national and international spokesperson for the field of metabolic bone diseases. Dr. Bilezikian's major research interests are related to the clinical investigation of metabolic bone diseases, particularly osteoporosis, primary hyperparathyroidism and hypoparathyroidism. His studies of parathyroid hormone in these disorders with regard to etiology, clinical manifestations, pathophysiology, mechanisms of skeletal involvement, and therapy are known throughout the world as landmark contributions to our knowledge of these disorders. He has been continuously funded by the NIH since 1974. Over 800 publications speak to these active original investigative initiatives as well as his authorship of many reference sources of endocrinology and metabolic bone diseases.

Dr. Bilezikian is the recipient of the Distinguished Physician Award of the Endocrine Society, the Frederic C. Bartter Award of the ASBMR for Excellence in Clinical Research, and the First Annual Global Leadership Award of the ISCD. In 2009, he received the Gideon A. Rodan Excellence in Mentorship Award from the ASBMR. He received the Laureate Distinguished Educator Award of the Endocrine Society in 2014. In 2015, he received the Oscar Gluck Humanitarian Award of the ISCD and the Inaugural Global Educator of the Year Award from

McMaster University in Canada. In 2017, was named Honorary Member of the Russian Osteoporosis Association. Dr. Bilezikian has received Lifetime Achievement and Recognition Awards of the California and Boston Armenian American Medical Societies and the Armenian American Health Professionals Organization (AAHPO). In 2017, he received the Doctor Honoris Causa Award from the Carol Davila School of Medicine in Bucharest, Romania and from the University of Pisa, in Pisa, Italy. He received the Distinguished Physician Award of the American Association of Clinical Endocrinologists in 2018. He received the Ellis Island Congressional Medal of Honor in the United States in 2018. He received from the National Assembly of the Republic of Armenia the Presidential Medal of Honor, in 2018.

Contributions to Brazil:

Dr. Bilezikian has been heavily involved in the life of Brazilians through his work with colleagues, fellows, and students. Over the past two decades, he has made over 40 visits to many cities in Brazil (Fortaleza, Recife, Bel Horizonte, Sao Paulo, Rio de Janeiro, Florianopolis, Goiania, Joinville, Brasilia, Gramado, Curitiba, Porto Alegre) and participated in many national and international meetings sponsored by The Brazilian Endocrine Society, the Congress of Osteoporosis of Orthopedic Surgeons (ABOOM), the Brazilian Congress on Bone Densitometry and Bone Metabolism (BRADOO), EndoRecife, and other organizations.

Passport Stamps!

Since 1999, Dr. Bilezikian has had his passport stamped 49 times by Brazilian Passport Authorities!

Recognition in Brazil

In 2004, he received the International Leadership and Service Award of the Brazilian Society of Endocrinology and Metabolism and the Brazilian Society of Densitometry

In 2008, he received the Outstanding Achievement Award of the Brazilian Society for Endocrinology and Metabolism

In 2012, he was named Honorary Member, Brazilian Society of Endocrinology, Diabetes, and Metabolism

In 2014, he was made honorary member of the Brazilian Society of Endocrinology and Metabolism.

Training of Brazilians

He has trained over 70 individuals many of whom have come from 14 different countries. Of the international fellows he has trained, 1/3 are from Brazil. The Brazilian Endocrinologists who have been trained by him in New York include:

Aline Costa, (Fortaleza)
Leonardo Bandeira (Recife)
Carolina Moreira (Curitiba)
Leila Koberle (Sao Paulo)
Barbara Silva (Bel Horizonte)
Henrique Arante (Sao Paulo),

Participation in Meetings in Brazil

He has participated in over 25 major meetings in Brazil over the past 20years:

- Featured Speaker, First Congress of the Brazilian Society of Bone and Mineral Metabolism and 6th International Symposium on Metabolic Bone Diseases, Recife (1999)
- Featured Speaker, VIII Simposio Internacional de Doencas Metabolicas Osseas, Recife (2001)
- Invited Speaker, 25th Brazilian Congress of Endocrinology and Metabolism (2002)
- Invited Speaker, 3rd Brazilian Congress of Bone and Mineral Research
1st Joint Meeting of the Brazilian Society of Endocrinology and Metabolism/AACE, Porto de Galinhas and Recife (2003)
- Steering Committee World Congress on Osteoporosis, Rio de Janeiro (2003-2004)
- Co-Director, Symposium: Osteoporosis and Its Treatment Brazilian Society of Bone and Mineral Research (2004)
- Invited Speaker, 26th Brazilian Congress of Endocrinology and Metabolism (2004)
- Plenary Lecturer, Endo-Recife, Recife (2005)
- Plenary Speaker, Brazilian Endocrine Society and Endo-Recife, Recife (2006)
- Plenary Speaker, 13th Annual Meeting of the Paulista Society of Rheumatology, Sao Paulo (2007)
- Featured Speaker, 14th Annual Course on Diagnostic Imaging, Radiomagem Porto Alegre (2008)
- Featured Speaker, EndoRecife, Recife (2008)
- Plenary Speaker, EndoRecife, Recife (2009)
- Invited Speaker, 29th Brazilian Congress of Endocrinology, Gramado (2010)
- Invited Speaker, EndoRecife, Brazilian Society of Endocrinology and Metabolism Recife (2011)
- Invited Speaker, BRADOO, Belo Horizonte (2011)
- Plenary Lecturer, 30th Brazilian Congress of Metabiology and Endocrinology, Goiania (2012),
- Co-ModeratorISCD Position Development Conference Body Composition, Sao Paulo (2014)
- International Member ,31st Brazilian Congress of Endocrinology, Scientific Advisory Committee Curitiba (2014)
- Plenary Speaker, 6th Brazilian Congress on Bone Densitometry and Bone Metabolism (BRADOO), Curitiba (2015)
- Guest Faculty, 5th Annual Review of Endocrinology and Diabetes Recife (2015)
- Invited Speaker, Joint Meeting Brazilian Society of Orthopedic Surgeons & American Society for Bone and Mineral Research, Fortaleza (2016)
- Plenary Speaker, 7th Brazilian Congress on Bone Densitometry and Bone Metabolism (BRADOO), Joinville (2016)
- Invited Keynote Speaker, 33rd Brazilian Congress of Endocrinology and Metabolism, Belo Horizonte (2018)
- Plenary Speaker, 8th Brazilian Congress on Bone Densitometry and Bone Metabolism (BRADOO), Sao Paulo (2018)
- Participant, 14th Annual Review Course in Endocrinology and Diabetes; 3rd Annual Meeting of the AACE Brazilian Chapter, Recife (2018)

Collaborators in Brazil

Dr. Bilezikian has enjoyed productive scientific collaborations with a large number of Brazilians who with him have published many seminal papers in the field.

His collaborators include the following outstanding Brazilians

Beatriz Amaral, Henrique Arantes, Cristina Bandeira, Leonardo Bandeira, Francisco Bandeira, Cesar Boguszewski, Victoria Borba, Joao Borges, Gustavo Caldas, Aline Costa, Antonio Carlos deSouza, Valeria Guimares, Luiz Griz, Vanda Jorgetti, Leila Koberle, Jaime Kulak, Marise Lazaretti-Castro, Giesa Macedo, Carolina Kulak Moreira, Gherardo Paz-Filho, Sergio Ragi-Eis, Luis Russo, Marta Sarquis, Vera Szejnfeld, Barbara Silva, and Cristiano Zerbini,

Publications with Brazilian Physicians

Over past 20 years, Dr. Bilezikian has published with his Brazilian colleagues approximately 80 original papers: the numbers refer to the entries in his Curriculum Vitae.

249. Thys-Jacobs S, Chan FKW, **Koberle LMC**, Bilezikian JP: Hypercalcemia due to vitamin D toxicity. In: Vitamin D (Feldman D, editor-in-chief) Academic Press, San Diego 883-901, 1997.
250. Chan FKW, **Koberle LMC**, Thys-Jacobs S, Bilezikian JP: Differential diagnosis, etiologies and management of hypercalcemia. Current Problems in Surgery 34:1-79, 1997.
266. **Kulak CAM**, **Bandeira C**, Voss DM, Sobieszczyk SM, **Bandeira F**, Silverberg SJ, Bilezikian JP: Bone mass increases markedly following parathyroidectomy in osteitis fibrosa cystica. J Clin Endocrinol & Metab 83:732-735, 1998.
269. **Kulak CAM**, Bilezikian JP: Practical approaches to the prevention of osteoporosis. Int'l J of Fertility 43:56-64, 1998.
291. Miller PD, Zapalowski C, **Kulak CAM**, Bilezikian JP: Bone densitometry: the best way to detect osteoporosis and to monitor therapy. J Clin Endocrinol Metab 84:1867-1871, 1999.
299. **Kulak CAM**, Bilezikian JP: Bone mass measurement in identification of women at risk for osteoporosis. Int'l J of Fertility and Women's Health 44:269-278, 1999.
301. **Kulak CAM**, Bilezikian JP: Bisphosphonates: characteristics and use in osteoporosis. In: Osteoporosis (Bandeira F, Macedo G, Caldas G, Griz L, Faria M, eds) Medsi, Rio de Janeiro, Brazil, 351-372, 2000.
303. Bilezikian JP, Zapalowski C, **Kulak CAM**, Rosen C, Miller PD: Newer concepts in bone densitometry. In: Osteoporosis (Bandeira F, Macedo G, Caldas G, Griz L, Faria M, eds) Medsi, Rio de Janeiro, Brazil, 113-126, 2000.

637. **Costa A**, Cusano NE, **Silva BC**, Bilezikian JP: New approaches to osteoporosis therapeutics. In: Osteoporosis, 4th Edition, (Marcus R, Feldman D, Dempster D, eds) Elsevier, San Diego, CA, 1963-1986, 2013.
641. Vu T, Wang XF, Wang Q, Cusano N, Irani D, **Silva BC**, Ghasem-Zadeh A, Udesky J, Romano M, Zebaze R, Jerums G, Boutroy S, Bilezikian JP, Seeman E: New insights into the actions of PTH in primary hyperparathyroidism on cortical and trabecular compartments of bone. *Bone* 55:57-63, 2013 PMID: 23541782.
642. **Arantes HP, Kulak C, Fernandes CE, Zerbini C, Bandeira F, Barbosa IC, Brenol JCT, Borba VC, Russo LA, Chiang AY**, Bilezikian JP, **Lazaretti-Castro M**: Correlation between 25 hydroxyvitamin D levels and latitude in Brazilian postmenopausal women with low bone mass: from the Arzoxifene Generation Study. *Osteoporos Int* 24:2707-2712, 2013. PMID: 23632825
644. **Silva BC**, Boutroy S, Zhang C, McMahon DJ, Zhou B, Wang J, Udesky J, Cremers S, **Sarquis M**, Guo XE, Hans D, Bilezikian JP: Trabecular bone score-TBS-a novel method to evaluate bone microarchitectural texture in patients with primary hyperparathyroidism. *J Clin Endocrinol Metab* 98:1963-1970, 2013. PMID: 23526463; PMCID: PMC3644593
645. **Costa AG**, Cusano NE, **Silva BC**, Bilezikian JP: Osteoporosis in men. In: Bandeira F, Gharib H, Golbert A, Griz L, and Faria M, eds). Springer, New York, 323-333, 2013.
650. **Costa A**, Walker MD, Zhang AC, Cremers S, Dworakowski E, McMahon DJ, Liu G, Bilezikian JP: Circulating sclerostin levels and markers of bone turnover in Chinese-American and White women. *J Clin Endocrinol Metab* 98:4736-4743, 2013. PMID: 24037879; PMCID: PMC3849675
655. **Silva BC**, Walker MD, Abraham A, Boutroy S, Zhang C, McMahon DJ, Liu G, Hans D, Bilezikian JP: Trabecular bone score is associated with volumetric bone density and microarchitecture as assessed by central QCT and HRpQCT in Chinese-American and white women. *J Clin Densitometry* 16:554-561, 2013. PMID: 24080513; PMCID: PMC3818347
657. Cusano NE, **Costa AG, Silva BC**, Bilezikian JP: Newer adult bone drugs. In: *Bone Drugs in Pediatrics: Efficacy and Challenges* (Klein GL, Ed.). Springer, New York, 199-222, 2014.
658. Cusano NE, Anderson L, Rubin MR, **Silva BC, Costa AG**, Irani D, Sliney JJ, Bilezikian JP: Recovery of parathyroid hormone secretion and function in postoperative hypoparathyroidism: a case series. *J Clin Endocrinol Metab* 98(11):4285-4290, 2013. PMID: 24037886; PMCID: PMC3816261
659. **Silva BC, Costa AG**, Cusano NE, Bilezikian JP: Osteoporosis: what's new and on the horizon. *Clin Obstet and Gynecol* 56:730-738, 2013. PMID: 24036482

308. **Kulak CAM**, Schussheim DH, McMahon DJ, Kurland E, Silverberg SJ, Siris ES, Bilezikian JP, Shane E: Osteoporosis and low bone mass in pre- and perimenopausal women. *Endocrine Practice* 6:296-304, 2000.
326. Mithal A, **Bandeira F**, Meng X, Silverberg S, Shi Y, Mishra SK, **Griz L**, **Macedo G**, **Caldas G**, **Bandeira C**, Bilezikian JP, Rao DS: Primary hyperparathyroidism in India, Brazil and China. In: *The Parathyroids*, 2nd Edition (Bilezikian JP, Marcus R, Levine MA, eds), Academic Press, San Diego, CA 375-386, 2001.
337. Rubin MR, LiVolsi VA, **Bandeira F**, **Caldas G**, Bilezikian JP: Tc-99m-Sestamibi uptake in osteitis fibrosa cystica simulating metastatic bone disease. *J Clin Endocrinol Metab* 86:5138-5141, 2001.
414. **Kulak CAM**, **Borba VZC**, Bilezikian JP, **Silvado CE**, **de Paola L**, **Boguszewski CL**: Bone mineral density and serum levels of 25 OH Vitamin D in chronic users of antiepileptic drugs. *Arq Neuropsiquiatr*, 62:940-948, 2004.
421. Rubin MR, Thys-Jacobs S, Chan FKW, **Koberle LMC**, Bilezikian JP: Hypercalcemia due to vitamin D toxicity. IN: *Vitamin D*, 2nd edition (Feldman D, Pike JW, Glorieux F, eds) Elsevier Academic Press, San Diego, CA 1355-1378, 2005.
427. Rubin MR, Schussheim DH, **Kulak CAM**, Kurland ES, Rosen CJ, Bilezikian JP, Shane E: Idiopathic osteoporosis in premenopausal women. *Osteoporosis Int'l* 16:526-533, 2005.
469. **Kulak CAM**, **Borba VZC**, **Silvado CE**, **de Paola L**, Seibel M, Bilezikian JP, **Boguszewski CL**: Bone density and bone turnover markers in patients with epilepsy on chronic antiepileptic drug therapy. *Brazilian Archives of Endocrinology* 51:466-471, 2007. PMID: 17546247
480. **Borba VZC**, **Paz-Filho GJ**, **Kulak CAM**, Seibel MJ, Bilezikian JP: Bone turnover 18 months after a single intravenous dose of zoledronic acid. *Int J Clin Practice* 61:1058-1062, 2007. PMID: 17504370
554. **Bandeira F**, **Lazaretti-Castro M**, Bilezikian JP: Hormones and Bone. *Brazilian Archives of Endocrinology and Metabolism* 54:85-86, 2010. PMID: 20485894
557. **Kulak CAM**, **Borba VZC**, Liu XS, Recker RR, Kimmel DB, Reis L, **Jorgetti V**, **Kulak Jr J**, Rabelo LM, Zhou H, Guo XE, Bilezikian JP, Boguszewski CL, Dempster DW: Skeletal microstructural abnormalities in postmenopausal women with chronic obstructive pulmonary disease. *J Bone Miner Res* 25:1931-1940, 2010. PMID: 20564248
563. **Silva BC**, Bilezikian JP: New approaches to the treatment of osteoporosis. *Ann Rev Med*, 62:307-322, 2011. PMID: 21054170
590. **Costa AG**, Cusano NE, Silva BC, Cremers S, Bilezikian JP: Cathepsin K: its skeletal actions and role as a therapeutic target in osteoporosis. *Nat Rev Rheumatol* 7:447-456, 2011. PMID: 21670768

591. **Costa AG**, Cremers S, Rubin MR, McMahon DJ, Sliney J Jr, **Lazaretti-Castro M**, Silverberg SJ, Bilezikian JP: Circulating sclerostin in disorders of parathyroid gland function. *J Clin Endocrinol Metab*, 96:3804-3810, 2011. PMID: 21937621; PMCID: PMC3232608
593. **Arantes HP, Barros ER, Kunii I**, Bilezikian JP, **Lazaretti-Castro M**: Teriparatide increases bone mineral density in a man with osteoporosis pseudoglioma. *J Bone Miner Res*, 26:2823-2826, 2011. PMID: 21997141
594. Cusano NE, **Costa AG, Silva BC**, Bilezikian JP: Therapy of osteoporosis in men with teriparatide. *J Osteoporos* 2011:463675. PMID: 22132345; PMCID: PMC3205768
595. **Silva BC, Costa AG**, Cusano NE, Kousteni S, Bilezikian JP: Catabolic and anabolic actions of parathyroid hormone on the skeleton. *J Endocrinol Invest*, 34:801-810, 2011. PMID: 21946081; PMCID: PMC4315330
596. **Costa AG**, Cusano NE, **Silva BC**, Bilezikian JP: Osteoporosis in men. IN: *Temas de Osteoporosis y otras Enfermedades Oseas (Topics in Osteoporosis and Other Bone Diseases)*. (Arinovich R and Arriagada M, eds) Chilean Foundation of Osteoporosis, 163-177, 2012.
597. Bilezikian JP, **Costa AG**, Cusano NE, **Silva BC**: Primary hyperparathyroidism. IN: *Temas de Osteoporosis y otras Enfermedades Oseas (Topics in Osteoporosis and Other Bone Diseases)*. (Arinovich R and Arriagada M, eds) Chilean Foundation of Osteoporosis, 403-424, 2012.
601. Jiang Y, Xia WB, Xing XP, **Silva BC**, Li M, Wang O, Zhang HB, Li F, Jing HL, Zhong DR, Jin J, Gao P, Zhou L, Qi F, Yu W, Bilezikian JP, Meng XW: Tumor-induced osteomalacia: an important cause of adult-onset hypophosphatemic osteomalacia in China: Report of 39 cases and review of literature. *J Bone Miner Res*, 27:1967-1975, 2012. PMID: 22532501
606. **Costa AG**, Bilezikian JP: Sclerostin: therapeutic horizons based upon its actions. *Curr Osteoporos Rep*, 10:64-72, 2012. PMID: 22234741
609. **Costa AG**, Cusano NE, **Silva BC**, Bilezikian JP: Osteoporosis in men. In: *Endocrinologia Clinica 5th Edition* (Vilar, L, ed), Grupo Editorial Nacional, Rio de Janeiro, 951-957, 2012.
624. Stein EM, **Silva BC**, Boutroy S, Zhou B, Wang J, Udesky J, McMahon DJ, Zhang CA, Romano M, Dworakowski E, **Costa A**, Cusano N, Irani D, **Sarquis M**, Cremers S, Shane E, Guo XE, Bilezikian JP: Primary hyperparathyroidism is associated with abnormal cortical and trabecular microstructure and compromised bone stiffness in postmenopausal women. *J Bone Miner Res*, 28:1029-1040, 2013. PMID: 23225022; PMCID: PMC3631282
630. **Costa AG**, Bilezikian JP: Bone turnover markers in primary hyperparathyroidism. *J Clin Densitometry* 16:22-27, 2013. PMID: 23374737; PMCID: PMC3577420