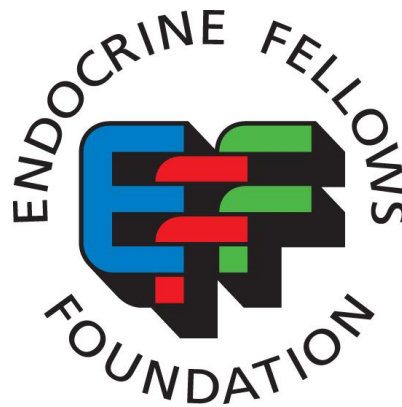


# ENDOCRINE FELLOWS FOUNDATION

## PRECEPTORSHIP IN METABOLIC BONE DISEASES COLUMBIA UNIVERSITY MEDICAL CENTER May 6– May 17, 2019



Application is due on or before

**March 3rd, 2019**

Applications will be accepted by email:

[info@endocrinefellows.org](mailto:info@endocrinefellows.org)

*The dates for the Preceptorship are final.*

*If you cannot attend the entire preceptorship, please do not apply.*

*Only 2<sup>nd</sup> and 3<sup>rd</sup> year fellows are eligible.*

**No exceptions will be made.**

## **Endocrine Fellows Foundation Preceptorship Program Description and Schedule**

Accredited endocrinology training programs provide adequate exposure to all clinical areas. However, not all programs can provide in-depth exposure to specific areas such as metabolic bone diseases. The Endocrine Fellows Foundation and Columbia University are pleased to announce a preceptorial experience to meet this need. They will be awarded to fellows who desire a greater experience in metabolic bone diseases. Stipends will be provided for travel, hotel, and meals. A description follows of the preceptorship to be offered in Metabolic Bone Diseases at Columbia University, College of Physicians and Surgeons.

**Metabolic Bone Diseases**  
**Columbia University, College of Physicians and Surgeons**  
**New York, New York**  
***John P. Bilezikian, M.D.***  
***Vice-Chair, International Education and Research***  
***Chief Emeritus, Division of Endocrinology***  
**May 6 – May 17, 2019**

The Preceptorial in Metabolic Bone Diseases, sponsored by the Endocrine Fellows Foundation, is conducted at the Columbia University Medical Center, Division of Endocrinology. The faculty that will be conducting this Preceptorship in the Metabolic Bone Diseases Unit is comprised of Drs. John P. Bilezikian, Ethel S. Siris, Elizabeth Shane, Shonni J. Silverberg, Edward Guo, Mishaela Rubin, Aubrey Stoch, Allison Pack, Patricia Ducey, Stavroula Kousteni, Serge Cremers, Angela Carelli, Aline Costa, Tara Allmen, Tom Nickolas, Marcella Walker, Adi Cohen, Robert Lindsay, David Dempster, Felicia Cosman, Jeri Nieves, Ronald Staron, Donald McMahon, Natalie Cusano, James Lee, Randy Yeh, and Michael Yin.

The faculty engages in a vigorous clinical research program as well as in an active practice. Their expertise extends also to more fundamental research initiatives in the mechanisms of calciotropic hormone action and bone cell biology. Diagnostic and therapeutic approaches used by the group are on the cutting edge of the field, and in many instances, have been defined by their efforts. These approaches include bone mass measurement techniques; application of calciotropic hormones and metabolic bone marker measurements to evaluation and therapy; bone biopsy with histomorphometric analysis (in collaboration with the Regional Bone Center of Helen Hayes Hospital, an affiliate of the Columbia University Medical Center), basic bone cell biology, transcriptional control of bone cell function and the most recent advances in the therapeutics of bone disorders. The Columbia Faculty at Helen Hayes Hospital includes Robert Lindsay, David Dempster, Felicia Cosman, and Jeri Nieves.

The fellows who are selected to participate in this program will gain experience in all these areas. The discipline of clinical investigation will be introduced also with individual tutorials on protocol design, acquisition, and interpretation of data, and statistical testing. Additionally, the preceptorial will consist of regular conferences replete with clinical case discussions, journal club, and research seminars. The preceptorial will also emphasize heavily the clinical approach to the patient with metabolic bone disease. The diagnostic and therapeutic approach to a wide variety of clinical problems will be reviewed case by case with the fellow. During the two-week training period, there will be many opportunities to have discussions with many members of the faculty.

**Tentative Schedule for Preceptorial**  
**(Times and Topics are Subject to Change)**  
**May 7 – May 17, 2019**

John P. Bilezikian, MD, Director  
Professor of Medicine and Pharmacology  
Vice Chair, International Education and Research  
Chief Emeritus, Division of Endocrinology  
Director, Metabolic Bone Diseases Program  
Columbia University Medical Center  
College of Physicians and Surgeons

**May 6: (Day 1)** 1. Welcome & Introduction to Metabolic Bone Diseases (Dr. *Bilezikian*); 2. - Clinical Pharmacokinetics & Pharmacodynamics of Bisphosphonates (Dr. *Cremers*).

**May 7: (Day 2)** 3. Hypercalcemia (Dr. *Bilezikian*) 4. Hypocalcemia (Dr. *Bilezikian*); 5. Essential Elements of Metabolic Bone Disease in Renal Failure (Dr. *Nickolas*). 6. Bone Biomechanics: A Critical Component of Skeletal Endocrinology (Dr. *Guo*). 7. *The Year in Bone* (Dr. *Bilezikian*).

**May 8: (Day 3)** 8. Osteoporosis I (Dr. *Bilezikian*). 9. Molecular Links Between Bone Remodeling and Glucose Homeostasis (Dr. *Kousteni*). 10. Planning for Statistical Evaluation of Clinical Research (*Don McMahon*).

**May 9: (Day 4)** 11. Hypoparathyroidism (Dr. *Rubin*). 12. Diabetes and Bone (Dr. *Rubin*). 13. *Meeting with Columbia Endocrine Fellows*. 14. Primary Hyperparathyroidism (Dr. *Silverberg*). 15. Metastatic Bone Disease (Dr. *Stoch*). 16. Bone Rounds (All Faculty).

**May 10: (Day 5)** 17. Sclerostin Regulation of Skeletal Metabolism (Dr. *Costa*). 18. Menopause and the Skeleton (Dr. *Allmen*). 19. Regulation of Bone Remodeling by Leptin and the Sympathetic Nervous System (Dr. *Ducy*). 20. Bone Mineral Densitometry/ High Resolution Imaging Demonstrations (Dr. *Cohen, Lori Olsson, RT, CDT*).

**May 13: (Day 6)** 21. Radiology of Metabolic Bone Diseases (Dr. *Staron*). 22. Osteoporosis II (Dr. *Bilezikian*); 23. *Case Presentations* (Dr. *Cusano*). 24. Antiseizure Medications and Bone (Dr. *Pack*).

**May 14: (Day 7)** 25. Bone Biology: Basic & Histomorphometric Concepts, Clinical Research & Epidemiology (Drs. *David Dempster, Robert Lindsay, Felicia Cosman, and Jeri Nieves at Helen Hayes Hospital*); 26. Metropolitan New York Bone Club; The Microbiome and Bone. (Dr. Roberto Pacifici, Emory University School of Medicine)

**May 15: (Day 8)** 27. Osteoporosis in Premenopausal Women (Dr. *Shane*). 28. Racial & Ethnic Variation in Fracture Risk Insights from New Imaging Techniques (Dr. *Walker*); 29. Outreach Programs after the Fragility Fracture (*Tayra Keshinover*).

**May 16: (Day 9)** 30. Osteoporosis III (Dr. *Bilezikian*). 31. Osteoporosis After Organ Transplantation (Dr. *Shane*). 32. Paget's Disease (Dr. *Siris*). 33. Osteoporosis IV- Therapeutic Horizons (Dr. *Bilezikian*). 34. Bone Rounds (*All Faculty*). .

**May 17: (Day 10)** 35. Wrap up, Fellows' Presentations and Evaluation: Departures. (Preceptees and Dr. *Bilezikian*).

**ENDOCRINE FELLOWS FOUNDATION**  
**METABOLIC BONE DISEASES PRECEPTORSHIP APPLICATION (2019)**  
**Due March 3, 2019**



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Full Name

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Institution

\_\_\_\_\_

Office Street Address

\_\_\_\_\_

Suite #

\_\_\_\_\_

City, State Zip

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Work Phone

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Fax Number

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Cell Phone

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E-mail

**Background Training:**

	Name	Location	Year Graduated or Completed
College			
Medical School			
Residency in Internal Medicine			
	Site	Program Director	Fellowship Status
Endocrinology Fellowship			Start Date:  Completion Date:

**Specific Subspecialty Interest** \_\_\_\_\_

**\*\*Please attach: 1) a one-page statement from the fellow's program director supporting the application; 2) a one-page statement from applicant (fellow) on why he/she desires training in the above preceptorship designation; and 3) a Curriculum Vitae.**

\_\_\_\_\_

Signature

\_\_\_\_\_

Date

Return to:

**Applications will be accepted by email:**  
[info@endocrinefellows.org](mailto:info@endocrinefellows.org)

Disclaimer:  
 The Endocrine Fellows Foundation recognizes the preceptorship as an added educational experience for endocrine fellows. The content and educational curricula remain at the discretion of the Program Director and individual faculty.