Disclosure Statement
Faculty, speakers, presenters, or a member of their immediate family, who have received something of value from any pharmaceutical, biomaterial or orthopaedic product or device company, supplier, institution, or orthopaedic publisher, which relates directly or indirectly to the subject of their presentation, are listed in the disclosure index. The Orthopaedic Research Society does not intend this identification to decrease the value of the presentation or to imply bias. It is intended solely for information.

To follow ACCME guidelines the Orthopaedic Research Society/AAOS has identified the options to disclose as follows:

Research or institutional support has been received;

1. Do you or a member of your immediate family receive royalties for any pharmaceutical, biomaterial or orthopaedic product or device?
2. Within the past twelve months, have you or a member of your immediate family served on the speakers bureau or have you been paid an honorarium to present by any pharmaceutical, biomaterial or orthopaedic product or device company?
3A. Are you or a member of your immediate family a paid employee for any pharmaceutical, biomaterial or orthopaedic device or equipment company, or supplier?
3B. Are you or a member of your immediate family a paid consultant for any pharmaceutical, biomaterial or orthopaedic device or equipment company or supplier?
3C. Are you or a member of your immediate family an unpaid consultant for any pharmaceutical, biomaterial or orthopaedic device or equipment company, or supplier?
4. Do you or a member of your immediate family own stock or stock options in any pharmaceutical, biomaterial or orthopaedic device or equipment company or supplier (excluding mutual funds)?
5. Do you or a member of your immediate family receive research or institutional support as a principal investigator from any pharmaceutical, biomaterial or orthopaedic device or equipment company, or supplier?
6. Do you or a member of your immediate family receive any financial/material support from any pharmaceutical, biomaterial or orthopaedic device or equipment company, or supplier?
7A. Do you or a member of your immediate family receive any royalties, financial or material support from any pharmaceutical, biomaterial or orthopaedic device or equipment company, or supplier?
7B. Do you or a member of your immediate family receive any royalties, financial or material support from any medical and/or orthopaedic publishers?
8. Do you or a member of your immediate family serve on the editorial or governing board of any medical and/or orthopaedic publication?
9. Do you or a member of your immediate family serve on any Board of Directors, as an owner, or officer on a relevant committee of any health care organization (e.g., hospital, surgery center, medical and/or orthopaedic professional society)?

Abdullah Abood
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sonya Ahmed
1 - Royalties: No; 2 - Speakers Bureau: Yes Speaker/Teacher Bioventus and Arthrex; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Consultant to Bioventus, Arthrex, Zimmer and Tornier; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Mother-owns stock in pharmaceutical company; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Heather C Allaway
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Educational Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Maria Almeida
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Educational Governing Board: No; 9 - Serve on Board of Directors/Committee: No

James A Ashton-Miller
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Educational Governing Board: Yes Am J P M & R; 9 - Serve on Board of Directors/Committee: No

So Young Baek
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Educational Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Asma S Bahrami
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Educational Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Gurpreet S Batht
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Mark M Banaszak Holl
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: Yes Merck OSP Grant; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Efren Barron Villalobos
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Ulrike Baschant
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

James T Bell
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Teresita Bellido
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JBMRF plus (deputy editor) and JBC (editorial board); 9 - Serve on Board of Directors/Committee: Yes ASBMR president elect

Jean-Philippe Berteau
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Scott A Birks**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Susan A Bloomfield**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes daughter Alicia CB Allen works for United Therapeutics Corporation in Durham, NC; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Robert K Boeckman Jr**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes Novartis Institute for Biomedical Research, Novartis Pharmaceuticals Inc - Organic Chemistry Consultant; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Novartis, Pfizer, GlaxoSmithKline; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Joel D Boerckel**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Melanie E Boeyer**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Lauren A Boller**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
Brendan F Boyce
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jessica Brezicha
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Robert H Brophy
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Arthrex and Smith & Nephew support the cost of our orthopaedic surgery sports medicine fellowship; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes I am on the editorial board of The American Journal of Sports Medicine and the deputy editor for Sports Medicine of The Journal of the American Academy of Orthopaedic Surgeons; 9 - Serve on Board of Directors/Committee: Yes I am committees for the American Academy of Orthopaedic Surgeons, the American Orthopaedic Association, and the American Orthopaedic Society for Sports Medicine

David B Burr
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Agnovos; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Current Osteoporosis Reports, JBMR, BONE, Bone Reports, JBMR Plus, J of Bone and Mineral Research, J of Biomechanics, Osteoporosis International, Calcified Tissue International Actualizaciones en Osteología; 9 - Serve on Board of Directors/Committee: No

Guoqi Mr. Cai
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Lei Cai
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Chike Cao**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Xu Cao**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Luis Cardoso**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Thomas O. Carpenter**
1 – Royalties: No; 2 - Speakers Bureau: Yes I have received honorarium from UltraGenyx for speaking at a symposium in Brazil in June 2019; 3a - Paid Employee: No; 3b - Paid Consultant: Yes I have served as a paid consultant for the following companies: UltraGenyx, Kyowa Kirin Pharma, Clementia, Inozyme; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Grant funding: UltraGenyx; Paradigm; Nutricia; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Associate Editor, Journal of Bone and Mineral Research; 9 - Serve on Board of Directors/Committee: No

**Michael Casden**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Racel G Cela**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Andrei S Chagin
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jinkun(Jake) Chen
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes GlaxoSmithKline; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes GlaxoSmithKline; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Junjie Chen
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes GlaxoSmithKline; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes GlaxoSmithKline; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Yuqing Chen-Evenson
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Roy Byung-Jun Choi
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Tien-Min Chu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Flavia Cicuttini
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Graeme Cicuttini
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Juliane Colditz
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jennifer C Coulombe
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Guillaume Courtemanche
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Meloney Gregor
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Ashley L Daniel
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Brian Dawson
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes, Research contract with ViscoTec; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Annalisa De Paolis
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Shawn Debnath
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jesus Delgado-Calle
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes, Research contract with Pharmamar S.A.; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Kathleen Derwin
1 – Royalties: Yes, Viscus Biomedical; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes, Orthofix; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes, Board of Consulting Editors for JBJS; 9 - Serve on Board of Directors/Committee: Yes, Chair Elect, Tendon Section, ORS

Justin DesLaurier
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Henry J Donahue
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Xin Duan**

1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Dana L Duren**

1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Frank Ebetino**

1 - Royalties: No; 2 - Speakers Bureau: Yes Sandoz; 3a - Paid Employee: Yes BioVinc; 3b - Paid Consultant: Yes BioVinc, Ionova; 3c - Unpaid Consultant: Yes BisCardia, Inc.; 4 - Stock or Stock Options: Yes BioVinc; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Burcin Ekser**

1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes United Therapeutics, Lung Biotechnology, Indiana University Health; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Jon P Elizondo**

1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Karyn Esser**

1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Carmella Evans-Molina
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Steve Falcoz
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Mary C Farach-Carson
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Matrix Biology; 9 - Serve on Board of Directors/Committee: No

Charles R Farber
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jian Q. Feng
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Virginia L. Ferguson
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes I am corresponding editor on Journal of Biomechancics; 9 - Serve on Board of Directors/Committee: Yes I am on the Membership Committee for the ORS

Adam J Ferrari
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid
Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Kathleen M Fisch
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Braden C Fleming
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Miach Orthopaedics (Spouse); 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Miach Orthopaedics (Spouse); 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Orthopaedic Journal of Sports Medicine (spouse); 9 - Serve on Board of Directors/Committee: No

Frisa Mario
Disclosure not available at this time.

Destiny Francis
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Michael Friedman
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Caroline M Garrett
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Richard H Gelberman
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Ziad Ghazzawi
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Georgia Glastris
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Matthew B Greenblatt
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Matthew W Grol
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Monica Grover
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Scott A Guelcher
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Medtronic Spine & Biologics; 6 - Financial or Material Support from Pharmaceutical or Company: Yes Biomedical devices provided by Medtronic for preclinical studies.; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Farshid Guilak

Theresa Guise
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Bayer Pharmaceuticals to study the effect of Radium-223 on myeloma; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes Cancer and Bone Society; and Chair elect of AACR Tumor microenvironment working group

David L Halladay
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Eli Lilly stock as part of my Eli Lilly retirement portfolio; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes Eli Lilly retirement; 7b - Royalties, Financial/Material Support from Publisher: Yes; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

David A Hoey
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes Bristol Myers Squibb; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Bristol Myers Squibb; 5 - Research or Institutional Support: Yes Johnson and Johnson; 6 - Financial or Material Support from Pharmaceutical or Company: Yes Johnson and Johnson; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes Deputy Editor JBMR; 9 - Serve on Board of Directors/Committee: Yes Council, ASBMR

Lorenz C Hofbauer
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Deputy Editor JBMR; 9 - Serve on Board of Directors/Committee: Yes Council, ASBMR

Harry A Hogan
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No;
Nilsson Holguin
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Mark R Holland
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Maria Hovorakova
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Alice H Huang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes Jessica Gordon, sister, Illumina; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Jessica Gordon, sister, Illumina and Ryan Cinalli, husband, Attune; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes myself, Scientific Reports editorial board; 9 - Serve on Board of Directors/Committee: No

Lily Huang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes I am a full time employee at the Regeneron Pharmaceutical Inc.; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes I hold Regeneron stocks; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Rong Huang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Tonci Ivanisevic
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Kevin C Jacob
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Behzad Javaheri
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Karl J Jepsen
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Ming-Ming Jiang
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Tongmeng Jiang
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Zixue Jin
1 - Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
<table>
<thead>
<tr>
<th>Name</th>
<th>Royalties</th>
<th>Financial/Material Support from Publisher</th>
<th>Editorial or Governing Board</th>
<th>Consulting</th>
<th>Board of Directors/Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yan Jing</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sutha K John</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Gillian P Johnson</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Joshua D Johnson</td>
<td>No</td>
<td>Yes I work for PolarityTE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ivo Kalajzic</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Jordan Kho</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Ha-Neui Kim
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Svetlana Komarova
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes received funding from Mereo BioPharma for a project unrelated to the current submission; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Pratima Labroo
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes PolarityTE; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes I own stocks of Portola Pharmaceuticals and Celgene; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sarfaraz S Lalani
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes I own stocks of Portola Pharmaceuticals and Celgene; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Lisa Larkin  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes I am a co-founder, CEO paid as an independent contractor (IDC) for STEL Technologies, LLC. This company is a regenerative medicine company working on a ligament technology for ACL and rotator cuff repair. I will not be talking about this technology at t ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: Yes I get paid as an IDC for being CEO of STEL Technologies, LLC; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Emily Leary  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Scott Lenfest  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Aylard C Letsinger  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Lei Li  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Xuehua Li  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
John T Lightfoot
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sarah E Little
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Yao Liu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Stacie Loisel
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Alayna Loisel
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes; 9 - Serve on Board of Directors/Committee: Yes; New Investigator Mentoring Committee-ORS

Helen Lu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes; Journal of Orthopaedic Surgery, Editorial board member; 9 - Serve on Board of Directors/Committee: No

En Luo
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes; 9 - Serve on Board of Directors/Committee: No
Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Erin M Mannen**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sarah L Manske**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**David S Margolis**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Andrew R Marks**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Camilla Reina Maroni**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Erika G Marques de Menezes**
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Colin T Martin</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Siti Maisarah Mattap</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Kevin McAndrews</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Julio Mejia</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Christopher L. Mendias</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Khalid Mohammad</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Elda M Munivez</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Sreemala Murthy
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Puvindran Nadesan
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Chanond A Nasamran
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Jessica H Nelson
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Phillip T Newton
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Anne E Nichols
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
Philip Norris
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sanja Novak
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Ryan M Nunley
1 – Royalties: Yes Microport/Royalties; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Biocomposites, Cardinal Health, DePuy, Halyard, Medical Compression Systems, Inc., Medtronic, Mirus, Smith & Nephew; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Stryker; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes Microport; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes SOA President, AAHKS Treasurer

Jeffry S Nyman
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No I am not paid directly, but my lab has done work for Safoni Genzyme under fee-for-service agreement between the company and VUMC. That work is not related to the abstract.; 3c - Unpaid Consultant: Yes I serve on the Scientific Advisor Board of ActiveLife Scientific, Inc. without compensation.; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes My lab has done work for Safoni Genzyme under a fee-for-service agreement between the company and VUMC. ActiveLife Scientific, Inc. loaned my lab equipment.; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes I am on the editorial board of Bone, J Bone Miner Res, Clin Rev Bone Miner Metab, Curr Osteoporos Rep; 9 - Serve on Board of Directors/Committee: No

Regis J. O'Keefe
1 – Royalties: Yes Receive royalties from Fate Therapeutics, &lt;$5,000/year; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes Receive royalties from Fate Therapeutics, &lt;$5,000/year; 7b - Royalties, Financial/Material Support from Publisher: Yes; 8 - Serve on Editorial or Governing Board: Yes Associate Editor, Bone; 9 - Serve on Board of Directors/Committee: Yes First Past-President, American Orthopaedic Association

David J Olivos
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes Pharmacyclics, An Abbvie Company; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes AbbVie; 5 - Research or
Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Maurizio Pacifici
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes consultant for Clementia Pharmaceuticals; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Conner J Paez
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Gabriel M Pagnotti
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Feng Pan
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jesal Parekh
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Daniella M Patton
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Maurizio Pacifici
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes consultant for Clementia Pharmaceuticals; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Conner J Paez
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Gabriel M Pagnotti
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Feng Pan
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jesal Parekh
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Daniella M Patton
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Munro Peacock  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Molly M Pederson  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Christine T Pham  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Andrew A Pitsillides  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: Yes I am an unpaid consultant for HaomaMedica Ltd; 4 - Stock or Stock Options: Yes Yes in HaomaMedica Ltd; 5 - Research or Institutional Support: Yes Yes from HaomaMedica Ltd; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Geoffrey Pitt  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes I own shares of Bristol Meyers Squibb; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Muhammad Farooq Rai  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Martina Rauner  
1 – Royalties: No; 2 - Speakers Bureau: Yes Amgen; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: Yes Acceleron, Amgen; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes Acceleron, Amgen;
Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jenna Regan
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Steven R Reiken
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Armgo Pharma, inc; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Mathieu Riffault
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Alexander G Robling
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Scott A Rodeo
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Flexion Therapeutics; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Ortho RTI; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes American J. Sports Medicine; 9 - Serve on Board of Directors/Committee: No

Jennymar Rojas
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
### G. David Roodman
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Ryan Ross
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Severin Ruoss
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Javier San Martin
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes Ultradevex Pharmaceutical Inc.; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Ultradevex Pharmaceutical Inc.; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Amy Y Sato
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Lars Savendahl
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

### Stephen H Schlecht
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Artur Schneider
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Elizabeth Shane
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Amgen; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Yun She
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Hua Shen
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Richard J Sherwood
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Michael J Sieverts
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes PolarityTE; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Stock options through PolarityTE; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
**Matthew J Silva**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Research Grant - Merck 2014-2017; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JOR editorial board; 9 - Serve on Board of Directors/Committee: Yes ORS Treasurer

**Benjamin Sinder**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Lester Smith**
Disclosure not available at this time.

**Ernesto J Solorzano**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Kendall C Stauffer**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes PolarityTE; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes PolarityTE; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Sukanya Suresh**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Vidyani Suryadevara**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Michael M Sutton
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

John A Szivek
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Josephine Tabea Tauer
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Simon Tang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: Yes Uncompensated scientific advisory board member of Active Life Scientific.; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sarah A Tersey
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No HiberCell BioTech - grant PI; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sylvia Thiele
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

William R Thompson
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Jing Tian**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Sam Q Tran**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Trupti Trivedi**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Qisheng Tu**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Deepak Vashishth**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Intrinsic Therapeutics Inc; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Orthoraft LLC; 5 - Research or Institutional Support: Yes Celgene (NIIMBL Project); 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Bone, Journal of Mechanical Behaviour of Biomedical Material (Editorial Board Member), PLoS One; 9 - Serve on Board of Directors/Committee: No

**Ericka von Kaeppler**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
J. Todd Walker
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes Brother works for Stryker; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jun Wang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Zheng Wang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Samuel R. Ward
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes DelNov Inc; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Physical Therapy Journal; 9 - Serve on Board of Directors/Committee: No

Natalie K Wee
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Joseph C Wenke
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JSOR and eCM; 9 - Serve on Board of Directors/Committee: No

Jennifer Westendorf
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Terumo BCT Inc; 3c - Unpaid Consultant: Yes Gordian Biotech; 4 - Stock or Stock Options: Yes Unity Biotechnology; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a -
Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: Yes Nature Springer; 8 - Serve on Editorial or Governing Board: Yes Deputy Editor, Journal of Bone and Mineral Research; 9 - Serve on Board of Directors/Committee: No

Phillip J White
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Samuel Wickline
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes J Cardiovascular Pharmacology and Therapeutics; 9 - Serve on Board of Directors/Committee: No

Monte S Willis
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Tania Winzenberg
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Edward M Wojtys
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes SportsHealth Journal; 9 - Serve on Board of Directors/Committee: No

Stephen Schlecht M Wojtys
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Christian S Wright
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Feitong Wu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Yunshu Wu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Lianping Xing
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Jinhu Xiong
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Ren Xu
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Alisha R Yallowitz
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Xin Yi
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Michael Yin
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Yue Zhang
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Marina Zieger
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Elizabeth A Zimmermann
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Xiaohua Zong
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No