

# ORS PSRS 4<sup>th</sup> International Spine Research Symposium – Lake Harmony, PA October 23-26, 2017 Disclosure Index

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1 – Royalties: No ; 2 - Speakers Bureau: Yes Nuvasive, Surgeon Trainer; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Nuvasive, Consultant; 3c - Unpaid Consultant: Yes Kunovus Technologies; 4 - Stock or Stock Options: Yes Kunovus Technologies P/L, Theracell LLC; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Editorial Board European Spine Journal; 9 - Serve on Board of Directors/Committee: Yes Treasurer, ISSLS, Director-Asia Pacific, SOLAS

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**George Dodge**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Journal of Experimental Orthopaedics, Editorial Board; 9 - Serve on Board of Directors/Committee: No

**Marina Doeselaar**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Qing Dong**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Alexandra Doolittle**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Michael Dudek**

Disclosure not available

**Galina Dulatov**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Garrett Easson**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**David Ede**

Disclosure not available

**David Eglin**

Disclosure not available

**Dawn Elliott**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes JOR, JOR-Spine, J Biomechanics; 9 - Serve on Board of Directors/Committee: Yes BMES

**Motomi Enomoto-Iwamoto**

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 My husband Masahiro Iwamoto is receiving the fund to support his medical research from Clementia pharmaceutical company.; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes I am an editorial board member of American Journal of Pathology, my husband, Mashairo Iwamoto is an editorial board member of Osteoarthritic and Cartilage.; 9 - Serve on Board of Directors/Committee: No

**Laura Epure**

Disclosure not available

**Isaac Erickson**

Disclosure not available

**Melissa Erickson**

1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Medtronic paid consultant; 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Savannah Esty**

Disclosure not available

**Rayan Fairag**

Disclosure not available

**Jeremy Fairbank**

Disclosure not available

**Niloofar Farhang**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Amber Faust**

Disclosure not available

**Bailey Fearing**

Disclosure not available

**Stephen 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: Yes DePuy Synthes: Research support for laboratory kinematic measurements; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Clinical Biomechanics, Journal of Biomechanics; 9 - Serve on Board of Directors/Committee: Yes President: European Society of Biomechanics

**Aaron Fields**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Christopher Filippi**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Kevin Foley**

1 – Royalties: Yes Medtronic; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Medtronic; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Discgenics, Medtronic, Nuvasive, Spinewave, Truevision, Vertera; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes International Journal of Spine Surgery, Cureus; 9 - Serve on Board of Directors/Committee: Yes Society for Minimally Invasive Spine Surgery

**Dale Fournier**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Alfredo Franco-Obregon**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Hannah Friedrich**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Takeshi Fujii**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Nobuyuki Fujita**

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**Ananya Ganesh**

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**Jennifer Gansau**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Xin Gao**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Evan Garfein**

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**Rahul Gawriw**

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**Matthew Gayoso**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Dan Gazit**

Disclosure not available

**Zulma Gazit**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Janna Geries**

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**Joseph Giaconi**

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**Morgan Giers**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Adam Goode**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Deborah Jean Gorth**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sibylle Grad**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Michael Grant**

Disclosure not available

**Ryan Gray**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Helen Greutert**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Weiyong Gu**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Jerome Guicheux**

Disclosure not available

**Sarah Gullbrand**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Munish Gupta**

1 – Royalties: Yes DePuy; 2 - Speakers Bureau: Yes DePuy; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes DePuy; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes personal stock Johnson & Johnson and Proctor and Gamble; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: Yes DePuy; 8 - Serve on Editorial or Governing Board: Yes Reviewer: European Spine, International Journal of spine surgery, Editorial Board: Global Spine, Spine Deformity; 9 - Serve on Board of Directors/Committee: No

**Lisbet Agneta Haglund**

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 Donation; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Brett Haislup**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Roger Hartl**

Disclosure not available

**James Hammond**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Fabian Heizmann**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**David Holdsworth**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Junmin Hong**

Disclosure not available

**Kiara Honma**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Keisuke Horiuchi**

Disclosure not available

**Judith Hoyland**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Alice Huang**

1 – Royalties: No ; 2 - Speakers Bureau: Yes Novartis, Sep 2016; 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Dongsheng Huang**

Disclosure not available

**Matthew Humphreys**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Ibrahim Hussain**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Amira Hussein**

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 ; 7 - Royalties, Financial/Material Support from Publisher: Yes one-time honorarium for reviewing a book by Elsevier; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No



**James Iatridis**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Journal of Orthopaedic Research; 9 - Serve on Board of Directors/Committee: Yes ORS

**Anita Ignatius**

Disclosure not available

**Svenja Illien-Junger**

1 – Royalties: Yes ; 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Lara Ionescu Silverman**

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

**Padraig Irwin**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Keita Ito**

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: Yes Material donated by DSM Biomedical; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Global Spine J, Deputy Ed; Tiss Eng, Ed Board; Biomech Mod Mechanobiol, Ed Board; Eur Spine J, Ass Ed Board; J Biomech, Consulting Ed; J Orthop Res, Ed Review Board; 9 - Serve on Board of Directors/Committee: Yes AO Foundation, Board; World Council Biomechanics, Treasurer; ISSLS, Fellowship Committee

**Keita Ito**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Timothy Jackman**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Hayley Jacobsen**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Timothy Jacobsen**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Amir Jamaludin**

Disclosure not available

**Amanda Jankelovits**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Dharshika Jayalath Pathirana**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Jie Jhou**

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**Li Jin**

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**Liufang Jing**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Alyssa Johncola**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Zariel Johnson**

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**Timor Kadir**

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**Takuya Kameda**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Rita Kandel**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes ; 9 - Serve on Board of Directors/Committee: No

**James Kang**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sonia Kartha**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Kaori Kashiwa**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Michael Kelly**

Disclosure not available

**Chris Kepler**

Disclosure not available

**Aysha Khan**

Disclosure not available

**Safdar Khan**

Disclosure not available

**Rouzana Khayat**

Disclosure not available

**Batbayar Khuyagbaatar**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Kimitris Kletsas**

Disclosure not available

**Semsi Kocabas**

Disclosure not available

**Dong Hwa 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Kyungsoo 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Yoon Hyuk 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sun Kim**

Disclosure not available

**Corin Kinkhabwala**

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 stock in BLCM, SGYP ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Hiroshi Kobayashi**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**John Koerner**

1 – Royalties: Yes Royalties for product Croosso; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes Wife employed by Novartis; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Novartis; 5 - Research or Institutional Support: Yes Medtronic; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Clinical Spine Surgery; 9 - Serve on Board of Directors/Committee: No

**Arunark Kolipaka**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Divya Krishnamoorthy**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Rebecca Kritschil**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Emerson Krock**

Disclosure not available

**Olga Krupkova**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**David Kubosch**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Rutvin Kyada**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Dale Laird**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Katherine Lakstins**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Leann Lam**

Disclosure not available

**Polly Lama**

Disclosure not available

**Gernot Lang**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Brandon Lawrence**

1 – Royalties: No ; 2 - Speakers Bureau: Yes AO Spine North America, K2M; 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: Yes Cervical Spine Research Society, North American Spine Society, AO Spine North America

**Joon Yung Lee**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Christine Le Maitre**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: Yes DISCs, Society of Back Pain Research, ORS Spine Section

**Elizabeth Leimer**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sophie Lerouge**

Disclosure not available

**Victor Leung**

1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: Yes Scientific Advisor, Novus Life Sciences; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Journal of Orthopaedic Surgery, Annals of Orthopedics & Rheumatology; 9 - Serve on Board of Directors/Committee: No

**Mitchell Levine**

Disclosure not available

**Chunhai Li**

Disclosure not available

**Debiao Li**

Disclosure not available

**Jennifer W. Li**

Disclosure not available

**Joshua Li**

Disclosure not available

**Li Li**

Disclosure not available

**Xudong (Joshua) LI**

Disclosure not available

**Zemin 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Zhen 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Sten Libregts**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Anjing Liang**

Disclosure not available

**Che-Yu Lin**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Zhaoyang Lin**

Disclosure not available

**L Linlinhardt**

Disclosure not available

**Robert Linhardt**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Hui 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Xinyue 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Yishan Liu**

Disclosure not available

**Zhaoyang 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Rose G. Long**

Disclosure not available

**Jeff Lotz**

1 – Royalties: Yes Relevant MedSystems; Nocimed LLC; 2 - Speakers Bureau: Yes Depuy Synthes Spine; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Relevant MedSystems; Nocimed LLC; Intrinsic Therapeutics; Disgenics; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Relevant MedSystems; Nocimed LLC; Aleeva Medical; ISTO Technologies; Simpirica Spine: SMC Biotech; NewVert; Rediens; 5 - Research or Institutional Support: Yes Orthofix; Depuy Synthes Spine; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Fengjuan Lv**

Disclosure not available

**Vedavathi Madhu**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Prasath Mageswaran**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Neil Malhotra**

Disclosure not available

**Koren Mann**

Disclosure not available

**Michele Marcolongo**

Disclosure not available

**Elia Marin**

Disclosure not available



**Dessislava Markova**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**William Marras**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Spine, European Spine Journal, The Spine Journal; 9 - Serve on Board of Directors/Committee: No

**John Martin**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Koichi Masuda**

Disclosure not available

**Axel Mathieu**

Disclosure not available

**Morio Matsumoto**

Disclosure not available

**Robert Mauck**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes JOR-Spine, J Exp Orthop, JOR; 9 - Serve on Board of Directors/Committee: No

**Hank Mayer**

Disclosure not available

**Bryan McEntire**

Disclosure not available

**Kyle Meadows**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Bjorn Meij**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Qing-Jun Meng**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Brian Mikolasko**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Magalie Millecamps**

Disclosure not available

**Takeshi Miyamoto**

Disclosure not available

**Shuichi Mizuno**

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

**Sarthak Mohanty**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Janet Moir**

Disclosure not available

**Lydia Moll**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Paxton Moon**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Elise Feng-i Morgan**

1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: Yes Spouse is Founder/Advisor/Board Member to several private, early stage start-up companies; 4 - Stock or Stock Options: Yes stock in several private, early stage start-up companies; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: Yes honorarium for duties as Associate Editor for Journal of Biomechanics; 8 - Serve on Editorial or Governing Board: Yes Journal of Biomechanics; 9 - Serve on Board of Directors/Committee: No

**Mary Mulcahey**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: Yes AAOS - exhibits committee; AOSSM - research committee; RJOS - professional development committee; AANA - fellowship committee, research committee

**Fackson Mwale**

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 Hold shares in Trepso Therapeutics, a patent holder of sLink N; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Shuait Nair**

Disclosure not available

**Masaya Nakamura**

Disclosure not available

**Rodrigo Navarro-Ramirez**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Cornelia Neidlinger-Wilke**

1 – Royalties: No ; 2 - Speakers Bureau: Yes my husband received speaker honorarium from Ulrich medical; 3a - Paid Employee: Yes our son - has a job completely independent of myself at Spinal Kinetics; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: Yes myself, funding for a research project in the institute by EIT GmbH, Wurmlingen, Germany; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes my husband, Deputy Editor European Spine Journal; 9 - Serve on Board of Directors/Committee: No

**Chris Norley**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Emanuel Novais**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Naoki Oba**

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**Jean Ouellet**

Disclosure not available

**Alexander Oldweiler**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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**Silvia Panuela**

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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**Peter Roughley**

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**Jayalath Ruckshanthi**

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**Bryan Rynearson**

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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**Jacob Schultz**

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**Erin Seifert**

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**Cheryle Seguin**

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 Contract research services agreement with Clementia Pharmaceuticals; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Osteoarthritis and Cartilage, editorial board member; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Rosa Serra**

Disclosure not available



**Lori Setton**

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

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**Anuj Shah**

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**Bhranti S Shah**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: Yes publication of book The Intervertebral Disc; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Francis Shen**

Disclosure not available

**Kaiying 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes My brother, Jason Silagi, works for Johnson & Johnson Consumer Products Division.; 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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

**Joseph Sincavage**

Disclosure not available

**Anya Skae**

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

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1 – Royalties: ; 2 - Speakers Bureau: ; 3a - Paid Employee: ; 3b - Paid Consultant: ; 3c - Unpaid Consultant: ; 4 - Stock or Stock Options: ; 5 - Research or Institutional Support: ; 6 - Financial or Material Support from Pharmaceutical or Company: ; 7 - Royalties, Financial/Material Support from Publisher: ; 8 - Serve on Editorial or Governing Board: ; 9 - Serve on Board of Directors/Committee:

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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 Johnson and Johnson; 5 - Research or Institutional Support: Yes Institutional Support for research study, Johnson and Johnson; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: Yes NASS, LSRS committees

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1 – Royalties: No ; 2 - Speakers Bureau: Yes Honorarium form Ultragenyx to speak at 2017 WORLD Symposium.; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: Yes Sponsored research agreement from Ultragenyx; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Academic editor, PLOS One.; 9 - Serve on Board of Directors/Committee: Yes Committee member, ORS Spine Section

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**Brian Snyder**

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**Brian Soher**

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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Associate Editor, PM&R; 9 - Serve on Board of Directors/Committee: Yes Treasurer, Association of Academic Psychiatrists

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**Laura Stone**

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**Adam Strickland**

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**Joshua Stover**

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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**Satoshi Suzuki**

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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Disclosure not available

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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 Less than \$10,000; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes JBC, JBMR; 9 - Serve on Board of Directors/Committee: Yes ORS

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes our son is working for Spinal Kinetics; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: Yes EIT, NEOS; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Deputy editor of the European Spine Journal responsible for basis Science; 9 - Serve on Board of Directors/Committee: Yes German Spine Foundation (Vice President), German Spine Society (Research Committee)

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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 ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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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 Abbott/SJM; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Editor, Journal of Biomechanical Engineering; Editorial Board, Spine; 9 - Serve on Board of Directors/Committee: Yes BMES

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**Zhiyu Zhou**

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