### Afshar, Kamyar

**Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**

- Grifols Biologicals, Inc.
  - Speaker or other faculty for non-CME activity

### Akulian, Jason A.

**Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**

- Veran Medical Technologies, Inc.
  - Consultant
  - Advisory committee

- BD Rx Inc.
  - Advisory committee

**Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**

- Medtronic USA, Inc.
  - Consultant

### Akuthota, Praveen

**Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**

- GlaxoSmithKline, LLC.
  - Speaker or other faculty for non-CME activity
  - Research support
  - Consultant

- AstraZeneca AB
  - Consultant
  - Advisory committee

### Allada, Gopal

**Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**

- Proteostasis Therapeutics, Inc
  - Consultant

- Vertex Pharmaceuticals Inc.
  - Consultant
Anstrom, Kevin

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bristol-Myers Squibb Company
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Janssen Pharmaceuticals, Inc
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Promedior
Data and safety monitoring board
Consultant
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim S.A.
Research support

Argula, Rahul Gupta

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals US, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Consultant

Arzt, Michael

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ResMed Corp
Advisory committee
Research support
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Philips Respironics
Speaker or other faculty for non-CME activity
Advisory committee
Research support

Assayag, Deborah

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim Canada Ltd.Ltee
Advisory committee
Speaker or other faculty for non-CME activity
Auger, William R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer Healthcare Pharmaceuticals Inc.
Research support
Advisory committee

Austin, Eric D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Acceleron Pharma, Inc.
Consultant

Ayas, Najib

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

BresoTec
Advisory committee

Bacharier, Leonard B.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

AstraZeneca Pharmaceuticals LP
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim Pharma GmbH & Co.KG
Speaker or other faculty for non-CME activity
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

DBV Technologies
Data and safety monitoring board

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Merck Sharp & Dohme Corporation
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Novartis Pharma AG
Consultant
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

SANOFI PASTEUR BIOLOGICS LLC
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Teva Pharmaceuticals USA, Inc.
Consultant
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| Bacharier, Leonard B.       | Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Vectura Limited
Research support
Consultant  
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Circassia
Consultant  
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Genentech USA, Inc.
Speaker or other faculty for non-CME activity
Consultant |
| Bade, Brett                | Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Boehringer Ingelheim b.v.
Other transfers of value |
| Badylak, Stephen           | Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
ACell, Inc.
Research support  
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
C. R. Bard, Inc.
Research support  
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Carmell Therapeutics
Research support
Advisory committee  
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Miromatrix Medical Inc.
Advisory committee |
| Bakker, Jessie Patricia    | Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
Philips Respironics
Employee of this company |
| Barr, R. Graham            | Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest  
UpToDate
Royalties, licensing fees, or other sales proceeds |
Basavaraj, Ashwin

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Insmed Inc.
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Advisory committee
Speaker or other faculty for non-CME activity

Bateman, Eric D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca AB
Advisory committee
Speaker or other faculty for non-CME activity
Other transfers of value

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca UK Limited
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca UK Limited
Advisory committee
Speaker or other faculty for non-CME activity

Baughman, Robert P.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Mallinckrodt LLC
Research support
Speaker or other faculty for non-CME activity
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech USA, Inc.
Speaker or other faculty for non-CME activity
Research support
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<td><strong>Bel, Elisabeth</strong></td>
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<td>Consultant</td>
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<td><strong>Benditt, Joshua O.</strong></td>
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<td>Gilead Sciences Inc</td>
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<td>Employee of this company</td>
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<td>GlaxoSmithKline, UK</td>
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<td>Research support</td>
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<td>Speaker or other faculty for non-CME activity</td>
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Bleck, Thomas P.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Sage Therapeutics
  - Data and safety monitoring board

Bochner, Bruce

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Allakos, Inc
  - Advisory committee
  - Other intellectual property rights (patent, copyright)
  - Ownership or investment interests
  - Royalties, licensing fees, or other sales proceeds

Borg, Brigitte

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Wiley Blackwell Publishing
  - Royalties, licensing fees, or other sales proceeds

Borok, Zea

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- NuMedii, Inc.
  - Advisory committee

Brantly, Mark

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- GeneAidyx
  - Ownership or investment interests

Brochard, Laurent J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Covidien
  - Research support

- Maquet
  - Research support

- Fisher and Paykel Healthcare
  - Research support

- Air Liquide
  - Research support

- General Electric
  - Research support
Brochard, Laurent J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Philips Respironics
  Research support

Brodie, Daniel

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- ALung Technologies
  Advisory committee

Brown, Kevin K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Biogen Idec Inc.
  Data and safety monitoring board
  Consultant
- Galecto
  Advisory committee
  Consultant
- Genoa
  Consultant
- Gilead Sciences Inc
  Advisory committee
- Galapagos
  Consultant
- MedImmune, LLC
  Advisory committee
- Roche
  Consultant
- Aeolus
  Consultant
  Advisory committee
- ProMetic
  Advisory committee
Brown, Kevin K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Patara Pharma
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Third Pole
Advisory committee
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Global Blood Therapeutics
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim b.v.
Consultant
Advisory committee

Campisi, Judith

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Unity Biotechnology
Other intellectual property rights (patent, copyright)
Ownership or investment interests
Research support

Carlin, Brian

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Sunovion Pharmaceuticals Inc.
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Monaghan Medical Corporation
Speaker or other faculty for non-CME activity
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

AstraZeneca Pharmaceuticals LP
Advisory committee

Carlsten, Christopher

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer HealthCare Pharmaceuticals Inc.
Advisory committee
Carstensen, Stephen

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SleepArchitx.com
Ownership or investment interests
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Zephyr Sleep Technologies
Research support

Casaburi, Richard

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim Pharmaceuticals, Inc.
Advisory committee
Speaker or other faculty for non-CME activity
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Advisory committee
Speaker or other faculty for non-CME activity
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Astellas Pharma Inc
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Circassia
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Theravance Biopharma Inc.
Advisory committee

Celedon, Juan C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pharmavite
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support

Chakinala, Murali M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Advisory committee
Research support
Chakinala, Murali M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Research support
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
United Therapeutics Corporation
Data and safety monitoring board
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Medtronic, Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Reata Pharmaceuticals
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Eiger
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharmaceuticals Corporation
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SteadyMed
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
PhaseBio
Consultant

Chalmers, James D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare LLC
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Aradigm
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Grifols, Inc.
Consultant
Chalmers, James D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Novartis Pharma AG
  - Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Insmed Inc.
  - Research support

Chambers, Rachel

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- GlaxoSmithKline, LLC.
  - Speaker or other faculty for non-CME activity
  - Research support
  - Ownership or investment interests
  - Employee of this company
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Channick, Colleen Lucy

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Surgical Intuitive
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Medtronic, Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Actelion Pharmaceuticals US, Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Bayer HealthCare Pharmaceuticals Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Arena Pharmaceuticals
  - Consultant

Channick, Richard N.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Bayer HealthCare LLC
  - Consultant
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Actelion Pharmaceuticals US, Inc.
  - Advisory committee
  - Consultant
Chen, Alexander C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Olympus America Inc.
Consultant

Cheng, George Z.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Medtronic, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Intuitive Surgical, Inc.
Research support

Chin, Marshall

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck Foundation
Research support

Christenson, Stephanie

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Speaker or other faculty for non-CME activity
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech, Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
MedImmune, LLC
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Hoya Health
Consultant

Churpek, Matthew M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Patent pending for risk stratification algorithms for hospitalized patients.
Other intellectual property rights (patent, copyright)

Collard, Harold R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Consultant
Collard, Harold R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim Pharmaceuticals, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Global Blood Therapeutics
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Parexel
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ProMetic
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Toray International America Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech USA, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Unity Biotechnology
Consultant

Criner, Gerard J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
PneumRx, Inc
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Nuvaira
Consultant
Criner, Gerard J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

MEREO
Consultant
Research support

Pulmonx Corporation
Research support
Consultant

Spiration, Inc.
Research support

Forestd
Research support

Novartis Pharmaceuticals Corporation
Consultant
Research support

Bayer HealthCare LLC
Consultant

Respironics
Consultant

Celerion
Consultant
Research support

ResMed Corp
Research support
Consultant

Pulmonetics
Consultant

Chiesi USA, Inc.
Consultant
Research support
Crouser, Elliott D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Beckman Coulter, Inc.
Speaker or other faculty for non-CME activity
Research support

Culver, Daniel A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Araim
Research support
Consultant

Mallinckrodt LLC
Advisory committee
Research support

Daley, Charles L.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Insmed Inc.
Advisory committee
Research support

Johnson and Johnson
Advisory committee

Dalton, Heidi

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Innovative ECMO Concepts, Inc
Consultant

Maquet Critical Care AB
Speaker or other faculty for non-CME activity

Darley-Usmar, Victor

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Agilent
Research support

Davis, Stephanie D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Parion Sciences
Research support
Advisory committee

Circassia (formerly Aerocrine)
Research support
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<td>Vertex Pharmaceuticals Inc. (Consultant)</td>
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**Davis, Stephanie D.**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Vertex Pharmaceuticals Inc.
  - Consultant

**Dean, Nathan C.**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Theravance Biopharma Inc.
  - Data and safety monitoring board

**Deleanu, Oana**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Linde Gas
  - Speaker or other faculty for non-CME activity

**Dell, Sharon D.M.**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Novartis Pharmaceuticals Corporation
  - Speaker or other faculty for non-CME activity
    - Advisory committee

- Trudell Pharmaceuticals
  - Advisory committee

**DeMeo, Dawn L.**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Novartis Pharma AG
  - Consultant
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<td>Provisional patent that covers multiplexed in situ hybridization in intact tissue using proximity ligation.</td>
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<td>TripleEndoscopy, Inc.</td>
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<td>Patent for Systems and Methods for determining Vital Information with a Computing Device</td>
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<td>Editor of Textbook on Pediatric Pulmonary Medicine</td>
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<td>Boehringer Ingelheim b.v.</td>
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<td>Advisory committee</td>
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<td>ListenMD Inc.</td>
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<td>Advisory committee</td>
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<tr>
<td>Now Vitals, Inc.</td>
</tr>
<tr>
<td>Ownership or investment interests</td>
</tr>
<tr>
<td>Royalties, licensing fees, or other sales proceeds</td>
</tr>
<tr>
<td>Novartis Pharmaceuticals Corporation</td>
</tr>
<tr>
<td>Speaker or other faculty for non-CME activity</td>
</tr>
</tbody>
</table>
Detterbeck, Frank C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- MEDELA INC., olympus
  Research support
  Data and safety monitoring board

Dixon, Anne E.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Pfizer, Inc.
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Viatris
  Consultant

Dockrell, David

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- GlaxoSmithKline, LLC.
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- ViiV Healthcare Company
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Eli Lilly
  Advisory committee

Dorfmuller, Peter

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Actelion Pharmaceuticals US, Inc.
  Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Merck Sharp & Dohme Corporation
  Speaker or other faculty for non-CME activity

Douglas, Ivor S.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Cheetah Medical, Inc.
  Research support
  Advisory committee
  Consultant

Dransfield, Mark T.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- GlaxoSmithKline, LLC.
  Consultant
  Data and safety monitoring board
  Research support
Dransfield, Mark T.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech USA, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
PneumRx, Inc
Research support
Consultant

Drummond, Michael Bradley

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca UK Limited
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novavax
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Enterprise Therapeutics
Consultant

Dunn, Heather

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Select Medical Corporation
Research support

Edwards, Bradley A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Oventus Medical
Research support

Eickelberg, Oliver

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim Pharma GmbH & Co.KG
Consultant
Advisory committee
Eickelberg, Oliver

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Novartis Pharma AG
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Morphosys
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Galapagos
Consultant

Evans, Christopher

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Eleven P15, Inc.
Advisory committee

Evans, Scott E.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Pulmotect, Inc
Ownership or investment interests

Fabbri, Leonardo M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Astra Zeneca
Research support
Consultant
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim b.v.
Speaker or other faculty for non-CME activity
Research support
Advisory committee
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Chiesi Farmaceutici
Speaker or other faculty for non-CME activity
Research support
Consultant
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Speaker or other faculty for non-CME activity
Research support
Consultant
Advisory committee
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Menarini
Advisory committee
Research support
Speaker or other faculty for non-CME activity
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Merck Sharp & Dohme Corporation
Advisory committee
Consultant
Research support
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Novartis Pharma AG
Speaker or other faculty for non-CME activity
Advisory committee
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Pearl Therapeutics
Advisory committee
Consultant
Research support
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Teva Pharmaceuticals USA, Inc.
Consultant
Research support
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Mundipharma
Speaker or other faculty for non-CME activity
Advisory committee
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Zambon
Speaker or other faculty for non-CME activity
Research support
Consultant
Advisory committee
Feldman, Charles

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Pfizer, Inc.
Speaker or other faculty for non-CME activity
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Abbott Laboratories
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Aspen
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Pharma Dynamics
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Sanofi
Speaker or other faculty for non-CME activity

Feller-Kopman, David J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Veran Medical Technologies, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Merrit Endotek
Consultant

Fischer, William Arthur

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Gilead Sciences Inc
Research support

Flume, Patrick

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Corbus Pharmaceuticals
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Galapagos
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Proteostasis Therapeutics, Inc
Research support
**Flume, Patrick**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Vertex Pharmaceuticals Inc.
  - Speaker or other faculty for non-CME activity
  - Research support
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Sound Pharmaceuticals
  - Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Horizon Pharma USA, Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Insmed Inc.
  - Research support
  - Consultant

**Folch, Erik**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Medtronic, Inc.
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boston Scientific Corporation
  - Advisory committee

**Ford, Hubert James**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- United Therapeutics Corporation
  - Consultant
  - Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Actelion Pharmaceuticals, Ltd
  - Consultant
  - Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Gilead Sciences Inc
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Bayer HealthCare Pharmaceuticals Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Novartis Pharmaceuticals Corporation
  - Data and safety monitoring board
Foster, Juliet

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Consultant
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Speaker or other faculty for non-CME activity

Freeman, Christine

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
MedImmune, LLC
Research support

Garcia, Christine K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pliant Therapeutics
Advisory committee

Garvey, Christine M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Advisory committee
Speaker or other faculty for non-CME activity

Gaston, Benjamin M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Respiratory Research Incorporated
Ownership or investment interests

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Lake Effect Pharma
Ownership or investment interests
Other intellectual property rights (patent, copyright)

Gauvreau, Gail

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AnaptysBio
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline Canada
Research support
Ghosh, Soumitra

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Employee of this company

Gillespie, Mark N.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
WG Consulting (Investor in Exscien Corp.)
Research support
Ownership or investment interests

Gilmartin, Geoffrey S.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Proteostasis Therapeutics, Inc
Employee of this company

Girgis, Reda Ebeid

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pfizer, Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
United Therapeutics Corporation
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech USA, Inc.
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Speaker or other faculty for non-CME activity

Gladwin, Mark T.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer Corp and Globin Solutions, Inc.
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Globin Solutions, Inc.
Other intellectual property rights (patent, copyright)
Gladwin, Mark T.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Globin Solutions, Inc.
Other intellectual property rights (patent, copyright)

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Globin Solutions, Inc.
Other intellectual property rights (patent, copyright)

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Globin Solutions, Inc.
Other intellectual property rights (patent, copyright)

Gomperts, Brigitte N.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
InSpira LLC
Consultant
Ownership or investment interests

Gould, Michael K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
UpToDate
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Medial Early Sign
Research support

Green, Francis

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Law firms regarding pathologic diagnosis of occupational lung disease
Expert testimony funded by this company or its agents
Consultant

Guilbert, Theresa W.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Regeneron Pharmaceuticals, Inc.
Advisory committee
Guilbert, Theresa W.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
UpToDate
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck Sharp & Dohme Corporation
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SANOFI-AVENTIS U.S. LLC/Regenerol
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Sanofi/Regeneron
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis/Regeneron
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Aviragen
Advisory committee

Gulati, Mridu

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
France Foundation
Advisory committee

Halpern, Scott D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ABIM Foundation
Consultant

Hamilton, Alan

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim (Canada) Ltd.
Employee of this company

Hamilton, Garun

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ResMed Corp
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Philips Respironics
Research support
Hamilton, Garun

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Air Liquide Healthcare
- Research support

Han, MeiLan K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- GlaxoSmithKline, LLC.
  - Consultant
- Boehringer Ingelheim b.v.
  - Consultant
- AstraZeneca AB
  - Consultant
- Sunovion Pharmaceuticals Inc.
  - Consultant
  - Research support
- Novartis Pharma AG
  - Speaker or other faculty for non-CME activity
  - Research support

Happ, Mary Beth

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Intellectual property for the SPEACS-2 communication training program
  - Consultant
  - Royalties, licensing fees, or other sales proceeds
- Vidatak, LLC.
  - Research support

Hemnes, Anna R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Patent for non-invasive diagnosis of pulmonary vascular disease
  - Advisory committee
  - Consultant
  - Other intellectual property rights (patent, copyright)

Heresi, Gustavo A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Bayer HealthCare Pharmaceuticals Inc.
  - Advisory committee
  - Speaker or other faculty for non-CME activity
Hersh, Craig P.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

23andMe
Consultant

AstraZeneca Pharmaceuticals LP
Consultant

Mylan Pharmaceuticals Inc.
Consultant

Concert Pharmaceuticals
Consultant

Boehringer Ingelheim Pharma GmbH & Co.KG
Research support

Novartis Pharma AG
Research support

Herth, Felix J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

BTG
Research support
Consultant
Speaker or other faculty for non-CME activity

Boston Scientific Corporation
Research support
Speaker or other faculty for non-CME activity
Consultant

Olympus America Inc.
Research support
Consultant
Speaker or other faculty for non-CME activity

Pulmonx Corporation
Speaker or other faculty for non-CME activity
Research support
Consultant

Hess, Dean R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Philips Respironics
Consultant
Hess, Dean R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Ventec Life Support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Jones and Bartlett
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
McGraw-Hill
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
UpToDate
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Daedalus Enterprised
Employee of this company

Highland, Kristin B.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals US, Inc.
Research support
Consultant
Speaker or other faculty for non-CME activity
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
United Therapeutics Corporation
Speaker or other faculty for non-CME activity
Research support
Consultant

Hoffman, Lucas

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Research support
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Vertex Pharmaceuticals Inc.
Research support
Speaker or other faculty for non-CME activity

Humbert, Marc J.C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Speaker or other faculty for non-CME activity
Advisory committee
Consultant
Humbert, Marc J.C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer HealthCare Pharmaceuticals Inc.
Research support
Consultant
Speaker or other faculty for non-CME activity
Advisory committee

GlaxoSmithKline, LLC.
Consultant
Advisory committee
Research support
Speaker or other faculty for non-CME activity

Merck Sharp & Dohme Corporation
Consultant
Speaker or other faculty for non-CME activity
Data and safety monitoring board
Advisory committee

F. Hoffmann-La Roche AG
Data and safety monitoring board

United Therapeutics Corporation
Advisory committee

Hunninghake, Gary Matt

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim Pharmaceuticals, Inc.
Consultant

Genentech USA, Inc.
Consultant

Idell, Steven

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Lung Therapeutics Inc.
Consultant
Other intellectual property rights (patent, copyright)
Data and safety monitoring board
Ownership or investment interests

Irvin, Charles G.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Acorda Pharm
Advisory committee
Irvin, Charles G.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

METHAPHARM
Board member

Jackson, Daniel

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim Limited
Advisory committee

Pfizer, Inc.
Data and safety monitoring board

Merck Sharp & Dohme Corporation
Consultant

GlaxoSmithKline, LLC.
Research support

James, W. Ennis

Mallinckrodt LLC
Advisory committee

Johannson, Kerri A.

Boehringer Ingelheim b.v.
Consultant
Advisory committee

Hoffmann-La Roche Limited
Speaker or other faculty for non-CME activity
Advisory committee

UCB Biosciences Inc.
Research support

Judson, Marc A.

Mallinckrodt LLC
Research support

Novartis Pharma AG
Research support
Kalhan, Ravi

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
PneumRx, Inc
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
CVS Caremark
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boston Scientific Corporation
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ModoSpira
Ownership or investment interests

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Spiration, Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Research support

Kaminski, Naftali

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Biogen Idec Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Moereae Matrix,
Ownership or investment interests

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pliant Therapeutics
Ownership or investment interests
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Samumed
Consultant
Kaminski, Naftali

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Miragen
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Licensed Patent on Aerosolized T3 by Lifemax
Other intellectual property rights (patent, copyright)
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Patent for biomarkers
Other intellectual property rights (patent, copyright)

Kaminsky, David A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

MGC Diagnostics, Inc.
Speaker or other faculty for non-CME activity

Kasperbauer, Shannon

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Insmed Inc.
Speaker or other faculty for non-CME activity
Advisory committee

Kerr, Kim M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer HealthCare LLC
Research support

Khatri, Sumita Bhattacharya

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boston Scientific Corporation
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Research support

Kim, Nick H.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Actelion Pharmaceuticals US, Inc.
Advisory committee
Consultant
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer HealthCare LLC
Advisory committee
Speaker or other faculty for non-CME activity
Consultant
Kim, Nick H.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck Sharp & Dohme Corporation
Consultant
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SoniVie
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bellerophon
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Eiger
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Lung Biotechnology Corp
Research support

Kim, Victor

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gala Therapeutics
Consultant

Kinane, T. Bernard

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SANOFI-AVENTIS U.S. LLC
Data and safety monitoring board

Kipen, Howard

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Various law firms representing plaintiffs in asbestos litigation
Expert testimony funded by this company or its agents

Kirby, Miranda

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
VIDA Diagnostics Inc.
Consultant

Klings, Elizabeth S.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pfizer, Inc.
Consultant
Klings, Elizabeth S.

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Actelion Pharmaceuticals US, Inc.
    - Research support

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Eiger Pharmaceuticals
    - Research support

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Reata Pharmaceuticals
    - Research support

Klooster, Karin

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - PneumRx/BTG
    - Research support
    - Speaker or other faculty for non-CME activity

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Pulmonx Corporation
    - Research support
    - Speaker or other faculty for non-CME activity

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - CSA Medical
    - Research support
    - Speaker or other faculty for non-CME activity

Kolb, Martin R.J.

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Boehringer Ingelheim b.v.
    - Data and safety monitoring board
    - Research support
    - Speaker or other faculty for non-CME activity
    - Consultant
    - Advisory committee

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - F. Hoffmann-La Roche AG
    - Speaker or other faculty for non-CME activity
    - Consultant
    - Advisory committee

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - ProMetic
    - Advisory committee
    - Research support

- **Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest**
  - Alkermes, Inc.
    - Research support
Kollef, Marin H.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Accelerate Diagnostics
  Advisory committee

Konstantinides, Stavros

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Bayer HealthCare LLC
  Research support
  Advisory committee
  Consultant
  Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Pfizer-Bristol-Myers Squibb
  Speaker or other faculty for non-CME activity
  Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Biocompatibles Group UK
  Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boehringer Ingelheim b.v.
  Research support
  Consultant

Koppelman, Gerard H.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- GlaxoSmithKline, LLC.
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Teva Pharmaceuticals USA, Inc.
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Vertex Pharmaceuticals Inc.
  Research support

Kraft, Monica

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Patent for surfactant protein A peptide
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Regeneron Pharmaceuticals, Inc.
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boehringer Ingelheim b.v.
  Speaker or other faculty for non-CME activity
<table>
<thead>
<tr>
<th>Name</th>
<th>Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
</tr>
</thead>
</table>
| Kraft, Monica | Teva Pharmaceuticals USA, Inc.  
Consultant                                                                                     |
| Kreider, Maryl | Sanofi Pasteur Inc.  
Research support                                                                                         |
|             | MedImmune, LLC  
Research support                                                                                             |
|             | Gilead Sciences Inc  
Research support                                                                                           |
| Kreisel, Daniel | Compass Therapeutics  
Research support  
Advisory committee                                                                                      |
| Kropski, Jon | Genentech, Inc.  
Research support                                                                                           |
|             | Boehringer Ingelheim Pharmaceuticals, Inc.  
Research support                                                                                         |
|             | Veracyte  
Consultant  
Research support                                                                                          |
| Lamb, Carla R. | Boston Scientific Corporation  
Consultant                                                                                                      |
| Lang, Irene | Actelion Pharmaceuticals US, Inc.  
Research support  
Data and safety monitoring board                                                      |
Lang, Irene

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  APOOrphan
  Data and safety monitoring board
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  GlaxoSmithKline, LLC.
  Data and safety monitoring board
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Bayer HealthCare Pharmaceuticals Inc.
  Research support
  Data and safety monitoring board

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Merck Sharp & Dohme Corporation
  Data and safety monitoring board
  Research support

Lavoie, Kim

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Boehringer Ingelheim Canada Ltd.Ltee
  Consultant
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Novartis Pharma AG
  Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Astellas Pharma Inc
  Consultant
  Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  AstraZeneca Pharmaceuticals LP
  Speaker or other faculty for non-CME activity
  Advisory committee

Lederer, David J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Galapagos
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Fibrogen
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
  Genentech/Roche
  Advisory committee
  Consultant
Lederer, David J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Veracyte
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Sanofi Genzyme
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Global Blood Therapeutics
Advisory committee

Lee, Frances E.H.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
MicroBplex
Ownership or investment interests

Lee, Joyce S.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Celgene Corporation
Advisory committee

Lee, Y.C. Gary

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Rocket Medical UK
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
BD/Carefusion
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Lung Therapeutics Inc
Consultant

Leigh, Margaret W.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Parion Sciences
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Circassia (formerly Aerocrine)
Research support
Levy, Bruce D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Carica Health
Ownership or investment interests
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Entrinsic Health
Ownership or investment interests
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Corbus Pharmaceuticals
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gecko Biomedical
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck Sharp & Dohme Corporation
Consultant
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pieris Pharmaceuticals
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Proteostasis Therapeutics, Inc
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SANOFI US SERVICES INC.
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Propeller Health
Other intellectual property rights (patent, copyright)

Liang, Ni-Cheng

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Consultant
Liang, Ni-Cheng

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Consultant

Liu, Kathleen

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Achaogen
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Durect
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Z S Pharma
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Theravance Biopharma Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Quark
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Potrero Med
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Amgen
Ownership or investment interests

Lugogo, Njira

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Teva Pharmaceuticals USA, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Advisory committee
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Advisory committee

Lynch, David A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Parexel
Research support
Lynch, David A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim b.v.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Genentech, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Veracyte
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Acceleron Pharma, Inc.
Consultant

Madani, Michael M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer/Merck
Consultant

Majid, Adnan

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Olympus America Inc.
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boston Scientific Corporation
Consultant
Speaker or other faculty for non-CME activity

Maltais, Francois

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Research support
Advisory committee

Man, William

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Mundipharma
Speaker or other faculty for non-CME activity
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Novartis Pharma AG
Research support
Speaker or other faculty for non-CME activity
Man, William

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Pfizer, Inc.
  Speaker or other faculty for non-CME activity
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- GlaxoSmithKline, LLC.
  Research support
  Speaker or other faculty for non-CME activity

Martinez, Fernando J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Afferent
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- AstraZeneca Pharmaceuticals LP
  Consultant
  Research support
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Bayer HealthCare LLC
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boehringer Ingelheim b.v.
  Data and safety monitoring board
  Speaker or other faculty for non-CME activity
  Consultant
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- ProTerrixBIO
  Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Clarion
  Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- ConCert
  Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Genentech, Inc.
  Data and safety monitoring board
  Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Gilead Sciences Inc
  Research support
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McCormack, Meredith C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

UpToDate
Royalties, licensing fees, or other sales proceeds

McDonald, Vanessa

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Research support
Speaker or other faculty for non-CME activity
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

AstraZeneca Pharmaceuticals LP
Speaker or other faculty for non-CME activity
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Menarini
Advisory committee

McKee, Andrea

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Grail
Advisory committee

McKone, Edward F.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Vertex Pharmaceuticals Inc.
Research support
Advisory committee
Speaker or other faculty for non-CME activity

Medoff, Benjamin D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Regeneron Pharmaceuticals, Inc.
Advisory committee

Melen, Erik

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Meda
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Thermo-Fisher Scientific.
Speaker or other faculty for non-CME activity
**Miravitlles, Marc**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Boehringer Ingelheim b.v.
  - Speaker or other faculty for non-CME activity
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Chiesi USA, Inc.
  - Speaker or other faculty for non-CME activity
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Cipla
  - Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Menarini
  - Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Grifols, S.A.
  - Speaker or other faculty for non-CME activity
  - Research support
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Novartis Pharma AG
  - Speaker or other faculty for non-CME activity
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- GlaxoSmithKline, LLC.
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Gebro
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- CSL Behring
  - Advisory committee

**Monnet, Xavier**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Pulsion Medical Systems
  - Consultant
  - Advisory committee

**Mora, Ana L.**

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Bayer HealthCare Pharmaceuticals Inc., Senolytic Therapeutics
  - Research support
  - Advisory committee
Mora, Ana L.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Senolytic Therapeutics
- Advisory committee
- Research support

Moreira, Gustavo

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- BioMarin Pharmaceutical Inc.
- Speaker or other faculty for non-CME activity

Morisset, Julie

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Hoffmann-La Roche Limited
- Speaker or other faculty for non-CME activity
- Consultant
- Advisory committee

- Boehringer Ingelheim Canada Ltd.Ltee
- Advisory committee
- Consultant
- Speaker or other faculty for non-CME activity

Nair, Parameswaran K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- AstraZeneca Pharmaceuticals LP
- Advisory committee
- Research support

- Teva Pharmaceuticals USA, Inc.
- Research support
- Advisory committee
- Speaker or other faculty for non-CME activity

- Sanofi
- Advisory committee
- Research support

- Roche
- Research support
- Advisory committee

- GlaxoSmithKline, LLC.
- Advisory committee
- Research support
Nair, Parameswaran K.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Theravance Biopharma Inc.
Advisory committee

Nathan, Steven D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
F. Hoffmann-La Roche AG
Consultant
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Speaker or other faculty for non-CME activity
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
United Therapeutics Corporation
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bellerophon
Consultant

Needham, Dale M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Baxter Pharmaceuticals
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Reck Medical Devices
Research support

Nicolls, Mark R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Eiger Biopharmaceuticals
Royalties, licensing fees, or other sales proceeds
Ownership or investment interests
Other intellectual property rights (patent, copyright)
Consultant
Niederman, Michael Steven

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Accelerate Diagnostics
Consultant

Nilius, Georg

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Fisher and Paykel Healthcare
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ResMed Corp
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Respironics
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Löwenstein medical
Research support

Nizet, Victor

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
INHIBRX, INC. (San Diego)
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Roche
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
CIDARA THERAPEUTICS (SAN DIEGO)
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
CENTAURI THERAPEUTICS (SANDWICH, UK)
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
BLUE NOVO BIOSYSTEMS (SAN DIEGO)
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SUTROVAX (SOUTH SAN FRANCISCO)
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
STAURUS PHARMA (SAN DIEGO)
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
MILLENIUM HEALTH (SAN DIEGO)
Consultant
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<td><strong>Nizet, Victor</strong></td>
<td>IOGEN, INC. (SAN DIEGO)</td>
<td>Consultant</td>
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<td>Genentech, Inc.</td>
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<td>Boehringer Ingelheim b.v.</td>
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<td>UpToDate</td>
<td>Royalties, licensing fees, or other sales proceeds</td>
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<td><strong>O'Byrne, Paul</strong></td>
<td>AstraZeneca AB</td>
<td>Advisory committee, Research support</td>
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<td>Novartis Pharma AG</td>
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<td>GlaxoSmithKline, LLC.</td>
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<td>MedImmune, LLC</td>
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<td>Genentech, Inc.</td>
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<td>AstraZeneca Pharmaceuticals LP</td>
<td>Consultant</td>
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<td>Janssen Pharmaceuticals, Inc</td>
<td>Research support</td>
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</table>
O'Donnell, Anne

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Bayer HealthCare LLC
  - Research support
  - Consultant
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Insmed Inc.
  - Research support
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Aradigm
  - Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Horizon Pharma USA, Inc.
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Cipla
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Xellia
  - Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Electromed, Inc.
  - Consultant

Owens, Robert L.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- ResMed Corp
  - Other transfers of value

Panitch, Howard B.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Philips Respironics
  - Advisory committee

Parr, David

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- CSL Behring
  - Consultant
  - Speaker or other faculty for non-CME activity
  - Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

- Kamada
  - Advisory committee
<table>
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<th>Name</th>
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<td>Parr, David</td>
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<td>Grifols, Inc.</td>
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<td>Speaker or other faculty for non-CME activity</td>
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<td>Patterson, Thomas</td>
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<td>Adaptive Phage Therapeutics</td>
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<td>Paulson, James</td>
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<td>Eisai Inc.</td>
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<td>Boehringer Ingelheim b.v.</td>
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Pavord, Ian D.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Chiesi
- Speaker or other faculty for non-CME activity
- Research support
- Other transfers of value
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
- Other transfers of value
- Speaker or other faculty for non-CME activity
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Sanofi
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Genentech USA, Inc.
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Regeneron Pharmaceuticals, Inc.
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Merck
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Circassia
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Knopp
- Advisory committee

Peker, Yuksel

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
BresoTec
- Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Philips Respironics
- Speaker or other faculty for non-CME activity

Petache, Irina

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Allinaire, Inc.
- Consultant
- Research support
Poch, David S.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Speaker or other faculty for non-CME activity
Consultant

Polineni, Deepika

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Vertex Pharmaceuticals Inc.
Advisory committee

Prescott, Hallie Christine

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bristol-Myers Squibb Company
Advisory committee

Preston, Thomas J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Medtronic, Inc.
Consultant

Provencher, Steve

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Speaker or other faculty for non-CME activity
Research support

Psallidas, Ioannis

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Employee of this company

Punjabi, Naresh M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ResMed Corp
Research support

Raghu, Ganesh

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Roche-Genentech
Consultant
Raghu, Ganesh

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Biogen, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bellerophon
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Fibrogen
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Gilead Sciences Inc
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Nitto
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

MedImmune, LLC
Data and safety monitoring board

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Promedior
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

SANOFI-AVENTIS U.S. LLC
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Veracyte
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

UCB, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bristol-Myers Squibb Company
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Patara Pharma
Consultant

Rahman, Najib M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Rocket Medical UK
Consultant
Research support
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<td>Fisher and Paykel Healthcare</td>
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<tr>
<td>Royalties, licensing fees, or other sales proceeds</td>
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<tr>
<td>Research support</td>
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<tr>
<td>Other intellectual property rights (patent, copyright)</td>
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<td>Consultant</td>
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<th>Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
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<td>Other transfers of value</td>
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<tr>
<td>Jazz Pharmaceuticals Inc.</td>
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<td>Consultant</td>
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<th>Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
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<td>Beckman Coulter, Inc.</td>
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<td>Research support</td>
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<th>Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
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<tbody>
<tr>
<td>AstraZeneca Pharmaceuticals LP/Pearl Therapeutics</td>
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<tr>
<td>Employee of this company</td>
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<th>Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
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<tr>
<td>Celgene Corporation</td>
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<tr>
<td>Employee of this company</td>
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<th>Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest</th>
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<tr>
<td>Merck and CO, Inc. (Spouse)</td>
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<tr>
<td>Employee of this company</td>
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<tr>
<td>Boehringer Ingelheim Pharmaceuticals, Inc.</td>
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<tr>
<td>Speaker or other faculty for non-CME activity</td>
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<tr>
<td>Advisory committee</td>
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<td>F. Hoffmann-La Roche AG</td>
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<td>Advisory committee</td>
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<td>Speaker or other faculty for non-CME activity</td>
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<td>Fibrogen</td>
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Richeldi, Luca

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Promedior
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Nitto
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SANOFI PASTEUR BIOLOGICS LLC
Advisory committee

Riesenfeld, Erik P.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
First community care
Employee of this company

Risbano, Michael George

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals, Ltd
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Research support

Rivera-Lebron, Belinda Natalia

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Actelion Pharmaceuticals US, Inc.
Advisory committee
Research support

Roberts, Mary

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Speaker or other faculty for non-CME activity

Robinson, Melissa

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
MC3, Inc
Consultant
Robinson, Melissa

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Innovative ECMO Concepts, Inc
  Employee of this company

Rodriguez-Roisin, Robert

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- AstraZeneca Pharmaceuticals LP/Pearl Therapeutics
  Advisory committee

Rossi, Santiago

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boehringer Ingelheim b.v.
  Speaker or other faculty for non-CME activity
  Advisory committee

Rowe, Steven M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Vertex Pharmaceuticals Inc.
  Research support
  Advisory committee
  Consultant
- Proteostasis Therapeutics, Inc
  Research support

Russell, Anne-Marie

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Hoffmann-La Roche Limited
  Speaker or other faculty for non-CME activity
  Research support
  Consultant
  Advisory committee

Ryerson, Christopher J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
- Boehringer Ingelheim Limited
  Advisory committee
  Research support
  Consultant
- Hoffmann-La Roche Limited
  Advisory committee
  Research support
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<td>Cambridge Sound Management</td>
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<td>Gilead Sciences Inc</td>
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<td>Scherpereel, Arnaud</td>
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<td>Merck Sharp &amp; Dohme Corporation</td>
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<td>Data and safety monitoring board</td>
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<td>Henry Stuart Talks</td>
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<td>Schooley, Robert</td>
<td>AmpliPhi</td>
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<td>Antiva Biosciences</td>
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<td>Ownership or investment interests</td>
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<td>CytoDyn</td>
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<td>Advisory committee</td>
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Schooley, Robert

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Gilead Sciences Inc
Data and safety monitoring board
Advisory committee
Consultant

Schwartz, David A.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Eleven P15, Inc.
Research support
Employee of this company
Ownership or investment interests

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

NuMedii, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

US Patent
Other intellectual property rights (patent, copyright)

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

US Patent
Other intellectual property rights (patent, copyright)

Sciurba, Frank C.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Pulmonx Corporation
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

GlaxoSmithKline, LLC.
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

PneumRx, Inc
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim b.v.
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Circassia
Advisory committee
Sears, Catherine R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bristol-Myers Squibb Foundation
Research support

Semler, Matthew W.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
KARL STORZ ENDOSCOPY-AMERICA, INC
Consultant

Shah, Pallav L.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Broncus
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
ERBE
CSA Medical
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Olympus America Inc.
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Medtronic, Inc.
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
PneumRX/BTG
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Pulmonx Corporation
Consultant
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Cook Medical
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boston Scientific Corporation
Research support
Shanafelt, Tait

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Intellectual property for physician well-being index, medical student well-being index, nurse well-being index, well-being index.
Other intellectual property rights (patent, copyright)
Royalties, licensing fees, or other sales proceeds

Shapiro, Adam J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Parion/Vertex Pharmaceuticals
research support

Sharma, Sunil

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

ResMed Corp
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Actelion Pharmaceuticals US, Inc.
Speaker or other faculty for non-CME activity

Shell, Richard

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Avexis Pharmaceuticals
Consultant

Silver, Richard

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

FibroBiologics
Other intellectual property rights (patent, copyright)

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Boehringer Ingelheim b.v.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Genentech USA, Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Bayer HealthCare LLC
Research support

Simon, Marc

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Novartis Pharma AG
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

United Therapeutics Corporation
Consultant
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<th>Name</th>
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<tr>
<td>Simon, Marc</td>
<td>Gilead Sciences Inc Consultant</td>
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<td>Actelion Pharmaceuticals US, Inc. Consultant</td>
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<td></td>
<td>Bayer HealthCare Pharmaceuticals Inc. Consultant</td>
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<td>Complexa Advisory committee</td>
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<td>Singh, Jaspal</td>
<td>Somnoware, Inc Consultant</td>
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<td>Medtronic Lung Health Solutions Consultant</td>
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<tr>
<td>Sista, Akhilesh</td>
<td>Penumbra Inc. Research support</td>
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<tr>
<td>Slatore, Christopher G.</td>
<td>Keating Jones Huges Expert testimony funded by this company or its agents</td>
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<td>Slebos, Dirk-Jan</td>
<td>Investigator &amp; consultant for Nuvaira Inc USA Consultant Advisory committee</td>
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<tr>
<td>Slooter, Arjen</td>
<td>Prolira Board member</td>
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<td>Smith-Whitley, Kim</td>
<td>Pfizer, Inc. Advisory committee</td>
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| Smith-Whitley, Kim    | Novartis Pharma AG
|                       | Advisory committee
|                       | Cerus
|                       | Advisory committee
|                       | Global Blood Therapeutics
|                       | Advisory committee
| Spence, Jason         | Patent pending for stem cell derived lung organoid technologies
|                       | Other intellectual property rights (patent, copyright)
| Spiekerkoetter, Edda F.| VIVUS Inc
|                       | Royalties, licensing fees, or other sales proceeds
|                       | Advisory committee
|                       | Other intellectual property rights (patent, copyright)
| Steiner, Michael C.   | GlaxoSmithKline, LLC.
|                       | Advisory committee
|                       | nutricia
|                       | Consultant
|                       | Boehringer Ingelheim b.v.
|                       | Speaker or other faculty for non-CME activity
|                       | Other transfers of value
|                       | Consultant
| Stoller, James K.     | Vertex Pharmaceuticals Inc.
|                       | Consultant
| Stripp, Barry R.      | Celgene Corporation
|                       | Research support
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<td>Stripp, Barry R.</td>
<td>AstraZeneca UK Limited, Advisory committee</td>
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<td>Strollo, Patrick J.</td>
<td>Inspire Medical Systems, Solriamfetol, CPAP, Bilevel, WatchPAT, Advisory committee, Consultant, Research support</td>
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<td>Summers, Charlotte</td>
<td>Exvastat Limited, Consultant, Ownership or investment interests</td>
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<td>GlaxoSmithKline, LLC, Research support</td>
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<td>Sweet, Stuart</td>
<td>Genentech USA, Inc, Research support</td>
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<td>Swigris, Jeffrey J.</td>
<td>Genentech USA, Inc, Speaker or other faculty for non-CME activity</td>
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<td>Tapson, Victor F.</td>
<td>Janssen Pharmaceuticals, Inc, Speaker or other faculty for non-CME activity, Advisory committee, Research support</td>
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<td>Tavee, Jinny</td>
<td>Arai pharmaceuticals, Research support</td>
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Taylor-Cousar, Jennifer L.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Vertex Pharmaceuticals Inc.
  Research support
  Speaker or other faculty for non-CME activity
  Consultant
  Advisory committee

Gilead Sciences Inc
  Research support
  Speaker or other faculty for non-CME activity
  Consultant
  Advisory committee

Proteostasis Therapeutics, Inc
  Research support
  Advisory committee

Bayer HealthCare Pharmaceuticals Inc.
  Research support

Protalix
  Advisory committee

Nivalis
  Research support

Thenappan, Thenappan

Gilead Sciences Inc
  Advisory committee

Actelion Pharmaceuticals US, Inc.
  Advisory committee

Thompson, B. (Taylor) Taylor

Alexion Pharmaceuticals, Inc.
  Consultant

Boehringer Ingelheim b.v.
  Consultant

Bayer HealthCare LLC
  Consultant
Thompson, B. (Taylor) Taylor

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Ferring Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Ferring Labs
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Roche-Genentech
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Regeneron Pharmaceuticals, Inc.
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
UpToDate
Royalties, licensing fees, or other sales proceeds

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
La Jolla Pharmaceuticals
Consultant

Thomson, Rachel

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Insmed Inc.
Consultant
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
SAVARA
Consultant

Tino, Gregory

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Grifols, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Aradigm
Consultant
Tschumperlin, Daniel J.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

MedImmune, LLC
Research support

van Ingen, Jakko

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Insmed Inc.
Advisory committee
Consultant

Janssen Pharmaceuticals, Inc
Advisory committee

Spero
Advisory committee

Voelkel, Norbert F.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

Janssen Pharmaceuticals, Inc
Consultant

Vogelmeier, Claus

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest

AstraZeneca UK Limited
Advisory committee
Speaker or other faculty for non-CME activity
Research support

Boehringer Ingelheim International GmbH
Advisory committee
Research support
Speaker or other faculty for non-CME activity

CSL Behring
Advisory committee
Speaker or other faculty for non-CME activity

Chiesi USA, Inc.
Speaker or other faculty for non-CME activity
Advisory committee

GlaxoSmithKline, LLC.
Research support
Advisory committee
Vogelmeier, Claus

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Grifols Biologicals, Inc.
Advisory committee
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Menarini
Advisory committee
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Mundipharma
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Advisory committee
Research support
Speaker or other faculty for non-CME activity

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Teva Pharmaceuticals USA, Inc.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Cipla
Speaker or other faculty for non-CME activity
Advisory committee

Wagner, Darcy

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Patent pending - Decellularization and recellularization of whole organs
Other intellectual property rights (patent, copyright)

Wahidi, Momen M.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Veran Medical Technologies, Inc.
Consultant

Wainwright, Claire

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Vertex Pharmaceuticals Inc.
Advisory committee

Wolley, Keith R.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Cyon Therapeutics
Ownership or investment interests
Walsh, Simon

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Steering committee member for an IPF drug trial
Speaker or other faculty for non-CME activity
Advisory committee

Wells, Athol U.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Intermune Roche
Speaker or other faculty for non-CME activity
Advisory committee

Wells, James Michael

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
GlaxoSmithKline, LLC.
Research support
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Bayer HealthCare Pharmaceuticals Inc.
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Mereo BioPharma
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Gilead Sciences Inc
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Research support

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Mylan Pharmaceuticals Inc.
Advisory committee

Wenzel, Sally E.

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
AstraZeneca Pharmaceuticals LP
Speaker or other faculty for non-CME activity
Research support
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharmaceuticals Corporation
Consultant
Research support
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Wunderink, Richard G.

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Bayer HealthCare Pharmaceuticals Inc.
Advisory committee

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SHIONOGI INC
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Nabriva
Advisory committee
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Accelerate Diagnostics
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Polyphor
Advisory committee
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Inflarex
Consultant
Data and safety monitoring board

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
KBP Biosciences
Consultant

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Curetis
Consultant

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Meiji Seika
Consultant

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Achaogen
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Biotest Pharmaceuticals Corporation
Consultant

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GlaxoSmithKline, LLC.
Consultant

Wynn, Thomas

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Pfizer, Inc.
Employee of this company
Yang, Connie
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Novartis Pharma AG
Advisory committee

Yarmus, Lonny B.
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Veran Medical Technologies, Inc.
Research support

Yende, Sachin
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Bristol-Myers Squibb Company
Research support
Consultant

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AtoxBio
Consultant

Young, Lisa R.
Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Boehringer Ingelheim b.v.
Advisory committee

Name of Commercial Interest and Type(s) of Relationship with that Commercial Interest
Patent for VEGF-D as a diagnostic test in LAM
Other intellectual property rights (patent, copyright)

Young, Paul
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Bard International, Inc.
Speaker or other faculty for non-CME activity

Zulueta, Javier
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VisionGate, Inc.
Ownership or investment interests
Employee of this company
American Thoracic Society - Disclosure Summary for CME Learners
ATS 2018 International Conference - San Diego - May 18-23, 2018

2) NO RELEVANT COMMERCIAL INTERESTS REPORTED BY CME PLANNERS AND PRESENTERS

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