**Education**

Sept 1990 - May 1994 University of Colorado, Boulder, Colorado

BS in Chemical Engineering

Sept 2000 – May 2005 Boston University, Boston, Massachusetts

PhD in Biomedical Engineering: “Multiscale analysis of arterial bypass remodeling: Mechanical characterization and influence of endothelial injury on VSMC proliferation”. Advisor: Dr. Joyce Y. Wong, Associate Professor of Biomedical Engineering, Boston University.

**Employment and Training**

May 1993 – June 2000 Cobe Cardiovascular, Inc., Arvada, Colorado

Product Engineer, Cardioplegia Products

Oct 2000 – Sept 2002 Brigham & Women’s Hospital, Boston, Massachusetts

Division of Vascular Surgery

Research Fellow investigating bypass graft mechanics

Advisor: Dr. Michael Conte, Vascular Surgeon, Brigham and Women’s Hospital and Assistant Professor of Surgery, Harvard Medical School

Sept 2002 – June 2005 Boston University, Boston, Massachusetts

Department of Biomedical Engineering Advisor: Dr. Joyce Wong, Professor of Biomedical Engineering, Boston University

Research Assistant in biomimetic materials engineering.

July 2005 – July 2008 University of California, San Diego, California

Postdoctoral Fellow in cardiac myocyte mechanics

Advisors: Dr. Jeffrey H. Omens, Adjunct Professor of Medicine and Bioengineering

Dr. Andrew D McCulloch, Professor of Bioengineering

July 2008 – Mar 2015 Rice University, Houston, Texas

Assistant Professor of Bioengineering

July 2008 – June 2016 Texas Children’s Hospital, Houston, Texas

Director, Pediatric Cardiac Bioengineering Laboratory

Oct 2008 – June 2016 Baylor College of Medicine, Houston, Texas

Adjunct Assistant Professor of Surgery

Aug 2010 – June 2016 Baylor College of Medicine, Houston, Texas

Adjunct Assistant Professor of Molecular Physiology and Biophysics

Mar 2015 – June 2016 Rice University, Houston, Texas

Associate Professor of Bioengineering

July 2016 – present University of Colorado Denver | Anschutz Medical Campus, Aurora, CO

Associate Professor of Bioengineering

July 2016 – present University of Colorado Denver | Anschutz Medical Campus, Aurora, CO

Associate Professor of Pediatrics

**Honors and Awards**

|  |  |
| --- | --- |
| 2000 | President's Fellowship for Predoctoral Study, Boston University |
| 2001 | Research Fellowship in Surgery, Brigham & Women's Hospital |
| 2009 | Medical Innovations Award, Institute for Biosciences and Bioengineering, Rice University |
| 2010 | Collaborative Research Fund Award, Virginia & L.E. Simmons Family Foundation |
| 2011 | Early Career Development Award (CAREER), National Science Foundation |
| 2012 | Collaborative Research Award, John S. Dunn Foundation |
| 2014 | Young Innovators in Biomedical Engineering Award, Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory University |
| 2014 | Pilot Award, Texas Medical Center Cardiovascular Research Institute |

**Other Experience and Professional Memberships**

|  |  |
| --- | --- |
| 2001 - | Member, Biomedical Engineering Society |
| 2009 - | Member, Tissue Engineering and Regenerative Medicine International Society (TERMIS) |
| 2015 – 2017  2017 – | TERMIS Membership Committee  Chair, TERMIS Biomaterials, Matrices, and Scaffolds Thematic Working Group |
| 2009 - | Member, Society for Biomaterials (SFB) |
| 2013 - 2017 | SFB Secretary/Treasurer, Tissue Engineering Special Interest Group |
| 2017 – 2019  2019 – | SFB Vice Chair, Tissue Engineering Special Interest Group  SFB Chair, Tissue Engineering Special Interest Group |
| 2010 - | Associate Member, Society of Thoracic Surgeons |

**Professional Society Service**

1. Abstract reviewer for the Society for Biomaterials annual meeting 2009 to 2019.
2. Session organizer at TERMIS World Congress, September, 2009 for “Materials for Myocardial Tissue Engineering”.
3. Session chair at Biomedical Engineering Society annual meeting, 2009-2019.
4. Abstract reviewer for BMES Annual Fall Meeting 2010-2017
5. Abstract reviewer for TERMIS-NA Annual Meeting, 2011-2017
6. Chair and organizer of the Cellular Force Transduction minisymposium at the EMBC-IEEE Annual Meeting, September, 2011.
7. Co-organizer and Co-chair of the Tissue Engineering for Pediatric Applications preconference workshop at the Tissue Engineering and Regenerative Medicine International Society North American annual meeting. December, 2011.
8. Abstract reviewer for ASME SBC Conference, 2012-2019
9. Abstract/paper reviewer for EMBC-IEEE Annual Meeting, 2012-2019
10. Co-organizer for the Cell and Tissue Engineering, Cell Adhesions and Biomechanics track and chair of the Cell and Tissue Engineering II session at the Southern Biomedical Engineering Conference, May, 2012.
11. Primary organizer of Society for Biomaterials Biomaterials Day at Rice University, 2012 and 2015.

**Educational Outreach**

1. Judge at Rice Undergraduate Research Symposium, 2009-2016.
2. Lecture for Rice k-12 program at local high schools 2009-2016
3. Judge for Baylor College of Medicine Graduate Student Symposium poster competition, 2009-2016
4. Judge for the Science and Engineering Fair of Houston, 2010-2016.
5. Challenges & Solutions in Medicine in the 21st Century conference for academically gifted 10th-12th grade students, organized by the John P. McGovern Museum of Health & Medical Science. 2010-2015.
6. Judge for the Denver area Science Fair, March, 2017.

**Other Service**

1. Area leader for breakout sessions at “The BioArtificial Heart: Challenges, Opportunities and Solutions” Seminar Series and Workshop at the Texas Heart Institute, December, 2008.
2. Interviewer for Baylor College of Medicine MD/PhD program, 2008 – 2016.
3. Organizer of junior engineering faculty lunches, September 2009-February 2010.
4. Assisted with Rice Bioengineering department ABET objective evaluations June, 2010.
5. Judge for the Rice 90-Second Thesis competition 2014-2016.

**Publications:**

1. **Jacot JG**, Abdullah I, Belkin M, Gerhard-Herman M, Gaccione P, Polak JF, Donaldson MC, Whittemore AD & Conte MS. Early adaptation of human lower extremity vein grafts: Wall stiffness changes accompany geometric remodeling. *Journal of Vascular Surgery*. 39:547 (2004).
2. **Jacot JG**, Dianis S, Schnall J & Wong JY. A simple microindentation technique for mapping the microscale compliance of soft hydrated materials and tissues. *Journal of Biomedical Materials Research*. 79(3):485-94. (2006).
3. Owens CD, Wake N, **Jacot JG**, Gerhard-Herman M, Belkin M, Creager MA & Conte MS. Early biomechanical changes in lower extremity vein grafts – Distinct temporal phases of remodeling and wall stiffness. *Journal of Vascular Surgery.* 44(4):740-6. (2006).
4. Leach JB, Brown XQ, **Jacot JG**, DiMilla PA & Wong JY. Neurite outgrowth and branching of PC12 cells on very soft substrates sharply decreases below a threshold of substrate rigidity. *Journal of Neural Engineering*. 4:26-34. (2007).
5. **Jacot JG** & Wong JY. Endothelial injury induces vascular smooth muscle cell proliferation in highly localized regions of a direct contact co-culture system. *Cell Biochemistry and Biophysics.* 52(1):37-46. (2008)
6. **Jacot JG**, McCulloch AD & Omens JH. Substrate stiffness affects the functional maturation of neonatal rat ventricular myocytes. *Biophysical Journal.* 95(7):3479-3487(2008).

7. Kita-Matsui H, Barcova M, Prigozhina N, Salomonis N, Wei K, **Jacot JG**, Nelson B, Haverlsag R, McCulloch A, Conklin B, Price JH, Chen HSV & Mercola M. Lentiviral vectors and protocols for creation of stable hESC lines for fluorescent tracking and drug resistance selection of cardiomyocytes. *PLoS ONE*. 4(4):e5046. (2009).

8. **Jacot JG**, Raskin AJ, Omens JH, McCulloch AD & Tung L. Mechanotransduction in Cardiac and Stem Cell Derived Cardiac Cells. Book Chapter In: Mechanosensitivity in Cells and Tissues 3rd ed.. eds. Kamkin A. & Kiseleva I. (2009).

9. **Jacot JG**, Kita-Matsuo H, Wei K, Chen HSV, Omens JH, Mercola M, & McCulloch AD. Cardiac myocyte force development during differentiation and maturation. *Annals of the New York Academy of Sciences.* 1188:121-127 (2010).

10. **Jacot JG**, Martin JC & Hunt DL. Mechanobiology of cardiac differentiation and development. *Journal of Biomechanics*. 43:93-98 (2010).

11. Pok S & **Jacot JG**. Biomaterials Advances in Patches for Congenital Heart Defect Repair. *Journal of Cardiovascular Translational Research*. 4(5):646-654 (2011).

12. Benavides OM, Petsche JJ, Moise Jr KJ, Johnson A & **Jacot JG**. Evaluation of endothelial cells differentiated from amniotic fluid-derived stem cells. *Tissue Engineering Part A*. 18(11-12):1123-1131 (2012). PMID 22250756.

13. Pok S, Myers JD, Madihally SV & **Jacot JG**. In vitro evaluation of a composite patch of PCL, chitosan and gelatin for cardiac applications. *Acta Biomaterialia.* 9:5630-5642 (2013). PMID: 23128158.

14. Petsche JJ, Camci-Unal G, Khademhosseini A, **Jacot JG**. Amniotic fluid-derived stem cells for cardiovascular tissue engineering applications. *Tissue Engineering Part B*. 19(4):368-79. (2013). DOI 10.1089/ten.TEB.2012.0561. PMID: 23350771.

15. Mondy WL, Casteleyn C, van Loo D, Raja M, Singleton C & **Jacot JG**. Osmium Tetroxide Enhancement of Micro-CT Vascular Corrosion Cast Images for use in the Computer Aided Design of Microvasculature. *Microscopy and Microanalysis*. 19(6):1416-27. (2013). PMID: 24103507

16. Petsche JJ, Augustini E, Moise Jr KJ, Johnson A & **Jacot JG**. Formation of functional gap junctions in amniotic fluid-derived stem cells induced by neonatal rat cardiomyocytes. *Journal of Cellular and Molecular Medicine.* 17(6):774-81. (2013) PMID: 23634988

17. Pok S, Benavides OM, Hallal P & **Jacot JG**. Use of myocardial matrix in a chitosan-based full thickness heart patch. *Tissue Engineering Part A*. 20(13-14):1877-87. (2014). PMID 24433519

18. Pok S & **Jacot JG.** New Evidence that Strain Energy in Adherent Cells Depends Only on Cell Area. *Biophysical Journal.* 107(4):798-99. (2014).

19. Klouda L, Tsao C & **Jacot JG**. Tissue Engineering in Congenital Heart Defects. *Challenges in Regenerative Medicine*. 1(1):2-21. (2014).

20. Gao Y, Petsche Connell J, Wadhwa L, Ruano R & **Jacot JG.** Amniotic fluid-derived stem cells demonstrated cardiogenic potential in indirect co-culture with human cardiac cells. *Annals of Biomedical Engineering.* Dec;42(12):2490-500. (2014). Note: Cover image.

21. Pok S, Benavides OM, Vatile F, Pasquali M & **Jacot JG.** Biocompatible Carbon Nanotube – Chitosan Scaffold Matching the Electrical Conductivity of the Heart. *ACS Nano.* 8(10):9822-9832. (2014).

22. Weia B, Adachi I & **Jacot JG**. Clinical and Molecular Traits of Reverse Remodeling with Ventricular Assist Device in Children in Comparison to Adults. *Artificial Organs.* 39(8):691-700. (2015).

23. Benavides OM, Quinn JP, Pok S, Petsche Connell JJ, Ruano R & **Jacot JG**. Capillary-like Network Formation by Human Amniotic Fluid-Derived Stem Cells within Fibrin/Poly(Ethylene Glycol) Hydrogel. *Tissue Engineering Part A.* 21(7-8):1185-1194 .(2014).

24. Benavides OM, Brooks A, Cho S, Connell JP, Ruano R & **Jacot JG**. *In Situ* Vascularization of Injectable Fibrin/Poly(Ethylene Glycol) Hydrogels by Human Amniotic Fluid-Derived Stem Cells. *Journal of Biomaterials Research, Part A*. 103(8):2645-2653. (2015).

25. Agrawal A, Adetiba O, Kim H, Chen H, **Jacot JG** & Verduzco R. Stimuli responsive liquid crystal elastomers for dynamic cell culture. *Journal of Materials Research.* 30(04):453-462. (2015)

26. Petsche Connell J, Ruano R & **Jacot JG**. Amniotic fluid-derived stem cells demonstrate limited cardiac differentiation following small molecule-based modulation of Wnt signaling pathway. *Biomedical Materials.* 10(3):034103. (2015).

27. Gao Y & **Jacot JG**. Stem cells and progenitor cells for tissue engineered solutions to congenital heart defects. *Biomarker Insights.* 10(1):139-146. (2015)

28. Scully BB, Fan C, Grigoryan B, **Jacot JG**, Vick GW III, Kim J, Fraser CD Jr., Grande-Allen KJ & Morales DLS. In Vivo Remodeling of a Small Intestinal Submucosa Patch into Functional Myocardium in an Ovine Model. *Journal of Biomaterials Research, Part B*. 104(8)  1713–1720. (2016).

29. Connell JP, Augustini E, Cheng S, Benavides OM, Ruano R & **Jacot JG.** Effect of passage, isolation, and media on differentiation capacity and stem cell marker expression in amniotic fluid-derived stem cells. *Cellular and Molecular Bioengineering*. 9 (1), 139-150 (2016)

30. Kim H, Zhu B, Chen H, Adetiba O, Agrawal A, Ajayan P, **Jacot JG** & Verduzco R. Preparation of monodomain liquid crystal elastomers and liquid crystal elastomer nanocomposites. *Journal of Visualized Experiments (JoVE).* 108:e53688-e53688. (2015).

31. Boothe SD, Myers JD, Pok S, Sun J, Xi Y, Cheng J & **Jacot JG**. The Effect of Substrate Stiffness on Cardiomyocyte Action Potentials. *Cell Biochemistry and Biophysics.* 74(4):527-535. (2016)

32. Krishnamurthy R, Lantin-Hermoso MM, Noel CV, Pignatelli RH, **Jacot JG** & Krishnamurthy R. "Ventricular coupling in single ventricle patients: a MRI study of cardiac biomechanics." *Journal of Cardiovascular Magnetic Resonance*, 18:422 (2016).

33. Del Bufalo F, Manzo T, Hoyos V, Shigeki Y, Caruana I, **Jacot JG**, Benavides OM, Rosen D & Brenner MK. 3D modeling of human cancer: A hydrogel system to study the role of tumor microenvironment and recapitulate the *in vivo* effect of oncolytic adenovirus. *Biomaterials*. 84:76-85. (2016)..

34. Ponniah JK, Chen H, Adetiba O, Verduzco R & **Jacot JG**. Mechanoactive Materials in Cardiac Science. *Journal of Materials Chemistry B*, 4:7350-7362. (2016)

35. Agrawal A, Chen H, Kim H, Zhu B, Adetiba O, Miranda A, Chipara AC, Ajayan PM, **Jacot JG** & Verduzco R. Electromechanically Responsive Liquid Crystal Elastomer Nanocomposites for Active Cell Culture. *ACS Macro Letters. .* 5:1386-1390. (2016)

36. Pok S, Stupin IV, Tsao C, Pautler RG, Gao Y, Nieto RM, Fraser CD Jr., Annapragada AV & **Jacot JG**. Full thickness heart repair with an engineered multi-functional myocardial patch in a rat model. *Advanced Healthcare Materials.* 6(5): 1600549. (2017).

37. Velasquez-Mao AJ, Tsao CJ, Monroe MN, Legras X, Bissig-Choisat B, Bissig KD, Ruano R, **Jacot JG**. Differentiation of spontaneously contracting cardiomyocytes from non-virally reprogrammed human amniotic fluid stem cells. *PLoS ONE* 12(5): e0177824. (2017).

38. Beck EC & **Jacot JG.** Vascular Formation by Perinatal Stem Cells. Book Chapter in *Perinatal Stem Cells: Research and Therapy*. Eds Atala A, Cetrulo K, Taghizadeh R, Cetrulo C & Murphy S. p65-84. (2018)

39. Tao Z, Mohamed M, **Jacot JG** & Birla R. Bioengineering Cardiac Tissue Constructs with Adult Rat Cardiomyocytes. *ASAIO Journal.* 64(5):e105-e114. (2018)

40. Tsao CJ, Taraballi F, Pandolfi L, Velasquez-Mao AJ, Ruano R, Tasciotti E & **Jacot JG**. Controlled release of small molecules for cardiac differentiation of pluripotent stem cells. *Tissue Engineering Part A.* 24 (23-24), 1798-1807. (2018).

41. Jarrell DK, Lennon ML & **Jacot JG**. Epigenetics and Mechanobiology in Heart Development and Congenital Heart Disease. *Diseases.* 7(3):52 (2019)

42. Tao Z, Wu S, Cosgriff-Hernandez EM & **Jacot JG**. Evaluation of a polyurethane-reinforced hydrogel patch in a rat right ventricle wall replacement model. *Acta Biomaterialia.* In Press.

43. Bailey KE, Pino C, Lennon ML, Lyons A, **Jacot JG**, Lammers SR, Koenigshoff M & Magin CM. Embedding of Precision-Cut Lung Slices in Engineered Hydrogel Biomaterials Supports Extended *ex vivo* Culture. *American Journal of Respiratory Cell and Molecular Biology*. In Press.

Invited Talks

1. **Jacot JG,** Fong A, McCulloch AD & Omens JH. The Effect of Substrate Rigidity on Multi-Axial Traction

Stress in Cardiomyocytes. Invited seminar at Scripps Institute of Oceanography. March, 2006

1. **Jacot JG.** Multiscale Biomaterial Approaches to Cardiovascular Regenerative Medicine. Invited seminar at

Syracuse University, Syracuse, NY. December, 2007.

1. **Jacot JG** Extracellular Matrix Mechanics and Cardiovascular Regenerative Medicine. Invited seminar at Rice University, Houston, TX. April, 2008.
2. **Jacot JG** Functional Effects of Extracellular Mechanics in Cardiovascular Regenerative Medicine. Invited seminar at Pennsylvania State University. February, 2008.
3. **Jacot JG**. Tissue Engineering in Cardiac Surgery: Growing Functional Myocardium & Valves. Baylor College of Medicine Michael E. DeBakey Department of Surgery Grand Rounds. January 26, 2011.
4. **Jacot JG**. Cardiac Tissue Engineering for Repair of Congenital Heart Defects. University of California, San Diego department of Bioengineering departmental seminar. May, 2012
5. **Jacot JG**. Cardiac Tissue Engineering for Congenital Heart Defect Repair. University of Colorado, Boulder, Department of Chemical and Biological Engineering. August, 2012.
6. **Jacot JG.** Pediatric Cardiac Tissue Engineering. Monterrey Technical University, Monterrey, Mexico. November, 2012. Over internet.
7. **Jacot JG**. Cardiac Tissue Engineering for Repair of Congenital Heart Defects. Presentation at the National Student Research Forum at the University of Texas Medical Branch at Galveston. April, 2012.
8. **Jacot JG**. Growing Hearts: How Stem Cell-Derived Tissue Can Repair Infant Hearts. TEDxRiceU 2013. Houston, TX. April, 2013.
9. **Jacot JG.** Tissue Engineering Strategies for Correction of Congenital Heart Defects. University of South Carolina, School of Medicine. August, 2013.
10. **Jacot JG.** Tissue Engineering Strategies for Correction of Congenital Heart Defects. Washington University, Department of Bioengineering. October, 2013.
11. **Jacot JG**. Engineered Heart Tissue for Correction of Heart Defects. Georgia Tech and Emory University, Department of Biomedical Engineering. April, 2014.
12. **Jacot JG**. Engineered Heart Tissue For Correction Of Heart Defects. Boston University, Department of Biomedical Engineering. May, 2014.
13. **Jacot JG.** Engineered Heart Tissue Using Amniotic Fluid Stem Cells. University of Sao Paolo School of Medicine. July, 2014.
14. **Jacot JG**. Engineered Heart Tissue For Correction Of Heart Defects. University of Delaware, Department of Biomedical Engineering. December, 2014.
15. **Jacot JG**. Engineered Heart Tissue For Correction Of Heart Defects. Johns Hopkins University, Department of Biomedical Engineering. December, 2014.
16. **Jacot JG**. Amniotic Fluid Stem Cells for the Repair of Birth Defects. Gulf Coast Consortia Regenerative Medicine Symposium. June, 2015.
17. **Jacot JG** Engineered Heart Tissue For Correction Of Heart Defects. Colorado State University, Department of Bioengineering. September, 2015.
18. **Jacot JG** Engineered Heart Tissue For Correction Of Heart Defects. University of Colorado Denver/ Anschutz Medical Camps, Department of Bioengineering. November, 2015.
19. **Jacot JG.**  Engineered Heart Tissue For Correction Of Heart Defects. Keynote speaker at the “Bridging the Outcome from TERM (Tissue Engineering and Regenerative Medicine) to Childhood Diseases” conference. Cincinnati Children’s Hospital and University of Cincinnati. August, 2016.

**Research Support**

Active

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| --- | --- | --- | --- |
| Agency | Title | Dates | Role |
| NIH/NHLBI R01 | Pre-Vascularized and Degradable Patches for Correction of Congenital Heart Defects | 1/1/16-12/31/20 | PI |

Past Funded

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Agency | Title | Dates | | Role |
| Virginia and L.E. Simmons Family Foundation Collaborative Research Fund | Differentiation of Amniotic Fluid Stem Cells into Cardiac Cells Through the Use of Novel Hydrogels and Applied Strain | 12/31/09-12/30/10 | | PI |
| NIH R13  R13HD071726-01 | Tissue Engineering for Pediatric Applications | 9/1/11 –  3/30/12 | | Co-PI |
| Society for Bioengineers Event Grant | Texas Regional Biomaterials Day | 10/27/11-10/27/12 | | PI |
| Baylor College of Medicine Seed Funding | Ex-Vivo Lung Perfusion for Pediatric Lung Transplantation | 4/1/12-3/31/13 | | Co-investigator |
| AHA South Central Affiliate Beginning Grant-in-Aid | Coculture of human heart cells with amniotic fluid-derived cells to generate cardiomyocytes for congenital heart repair | 7/1/11- 11/30/13 | | PI |
| NIH R21 NHLBI  1R21HL110330-01 | Dependence of Cardiomyocyte Electrophysiology Development on Contractile Strain | 7/1/11- 11/31/13 | | PI |
| Gulf Coast Consortia Dunn Collaborative Research Grant | Multi-layered cardiac patches from dynamic surfaces | 1/1/13-12/31/13 | | Co-PI |
| Texas Medical Center Cardiovascular Research Institute | Using MRI to Measure Focal and Diffuse Fibrosis in Patched Cardiac Repair | | 10/1/14-6/30/15 | PI | |
| March of Dimes | Generation of Hybrid Bioprostheses for Treating Congenitally Diseased Heart Valves | | 6/1/13-5/31/16 | Co-Investigator | |
| AHA South Central Affiliate Beginning Grant-in-Aid | Use of liquid crystal elastomer substrates to condition human cardiomyocyte precursors and generate 3-D layered tissues | | 1/1/14- 12/31/15 | PI | |
| NSF CAREER Award | Generation of Cardiac Tissue Using Stem Cells Derived from Human Amniotic Fluid | | 7/1/11-6/30/16 | PI | |
| NSF EAGER Award | Biomanufacturing: Cell Differentiation Bioreactor For Cardiac Tissue Engineering | | 9/15/15-8/31/17 | PI | |

**Teaching/ Training**

Instructor

1) Fundamentals of Systems Physiology. BIOE322/BIOS332. Rice University. Spring 2009 – Spring 2012.

Average Course Evaluations: Effectiveness: 2.10/5.0 (1.0 is best rating) Overall: 1.99/5.0 (1.0 is best rating)

2) Departmental Seminar Series and Course. BIOE698. Rice University. Spring 2012.

3) Advanced Biomaterials Engineering. BIOE431/BIOE631. Fall 2013, Fall 2014, and Fall 2015.

Average Course Evaluations: Effectiveness: 1.62/5.0 (1.0 is best rating) Overall: 1.76/5.0 (1.0 is best rating)

4) Systems Physiology for Bioengineers. BIOE5011. University of Colorado Denver. Spring 2017-2019.

Average Course Evaluations: Effectiveness: 4.9/6.0 (6.0 is best rating) Overall: 5.1/6.0 (6.0 is best rating)

5) BIOE Lab I: Biomechanics and Biomaterials. BIOE3070. University of Colorado Denver. Fall 2017-2019

Average Course Evaluations: Effectiveness: 4.3/6.0 (5.0 is best rating) Overall: 3.72/5.0 (6.0 is best rating)

Lecturer

1) Lecturer at UCSD (6 out of 18 total lectures) for Biomechanics. Fall 2007.

2) Lecturer at UCSD (6 out of 18 total lectures) for Bioreactor Engineering. Spring 2008.

3) 465-411 Cardiovascular Physiology. Baylor College of Medicine. Spring 2009-2016. Two lectures/ year

4) Cardiovascular Sciences Seminar Series. Baylor College of Medicine. Fall 2009-2016. 4 lectures/year.

7) Cardiovascular Pathology. Baylor College of Medicine. Summer 2011-2016. Two lectures per year.