

CURRICULUM VITAE

Carlos Galhardo Júnior, M.D.

PERSONAL INFORMATION

Place of Birth: Rio de Janeiro, Brazil
Office Address: Division of Anesthesia
National Institute of Cardiology
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MEDICAL EDUCATION

Year	Degree	Institution
2017 - present	Ph.D. (student)	University of São Paulo São Paulo, Brazil
1988 – 1993	M.D.	State University of Rio de Janeiro Rio de Janeiro, Brazil
1992 – 1993	Internship	State University of Rio de Janeiro Pedro Ernesto University Hospital Rio de Janeiro, Brazil

FELLOWSHIP and RESIDENCY TRAINING

Year	Title	Specialty	Place of Training
2011 (July 1st) - 2012 (October 31st)	Clinical Fellowship	Cardiovascular Anesthesia and Critical Care	Toronto General Hospital, University of Toronto Toronto, Canada
1994 – 1996	Residency	Anesthesiology	Pedro Ernesto University Hospital State University of Rio de Janeiro Rio de Janeiro, Brazil

CERTIFICATIONS AND LICENSES

- 2012 Diplomat in Advanced Perioperative Transesophageal Echocardiography, NBE – USA
- 2006 Superior Title in Anesthesiology, Brazilian Society of Anesthesiology
- 1996 Anesthesiologist, Brazilian Society of Anesthesiology
- 1996 Anesthesiologist, Brazilian Medical Association
- 1994 Medical License, Brazilian Federal Council of Medicine

APPOINTMENTS AND POSITIONS HELD

- 2017 - present Member of Scientific Board, Rio de Janeiro State Society of Anesthesiology
- 2016 - present Member of the Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia, USA
- 2016 - present Instructor for the Basic and Advanced Transesophageal Echocardiography National Course, Brazilian Society of Anesthesiology, Brazil
- 2016 - present Director, Anesthesia for Heart Transplant, National Institute of Cardiology, RJ, Brazil
- 2013 - 2016 Chief, Anesthesia Department, Unimed-Rio Hospital, Rio de Janeiro, Brazil
- 2008 - 2011 Co-Director, Anesthesia Department, National Cardiology Institute, RJ, Brazil
- 2007 - 2011 Co-Chair of the Anesthesia Residency Program at Federal Hospital of Lagoa, RJ, Brazil
- 1997 - present Staff Anesthesiologist, National Institute of Cardiology, RJ, Brazil

MEMBERSHIP – SCIENTIFIC AND PROFESSIONAL SOCIETIES

- 2016 - present American Society of Anesthesiology (ASA)
- 2015 – 2016 Society for the Advancement of Blood Management (SABM)
- 2014 – 2016 American Association of Blood Banks (AABB)
- 2013 - present European Association of Cardiothoracic Anaesthesiologists (EACTA)
- 2012 - present Society for Airway Management (SAM)
- 2008 - present American Society of Echocardiography (ASE)
- 2005 - present Society of Cardiovascular Anesthesiologists (SCA)
- 2003 - 2007 Latin American Society of Regional Anesthesia (LASRA)
- 1998 - 2000 American Society of Anesthesiologists (ASA)
- 1994 - present Rio de Janeiro State Society of Anesthesiology (SAERJ)
- 1994 - present Brazilian Society of Anesthesiology (SBA)

COMMITTEE MEMBERSHIPS

- 2015 - present Cardiothoracic Anesthesia Committee, Brazilian Society of Anesthesiology, Brazil
- 2014 - present International Committee, Society of Cardiovascular Anesthesiologists, USA
- 2013 – 2016 Blood Products and Transfusion Committee, Unimed Rio Hospital, Brazil
- 2007 - present Blood Products and Transfusion Committee, National Cardiology Institute, Brazil

ADMINISTRATIVE COMMITTEE

- 2016 – present Member of Scientific Committee, 2017 Southeastern Anesthesia Meeting (JASB), Rio de Janeiro, Brazil
- 2014 – present Co-Chair, Scientific Program Committee, International Congress of Cardiothoracic and Vascular Anesthesia (ICCVVA 2017), Rio de Janeiro, Brazil
- 2012 – 2016 Member of Circulation Scientific Sub-Committee, 2016 World Congress of Anesthesiologists, Hong-Kong.

INVITED ABSTRACT REVIEWER FOR SCIENTIFIC ANNUAL MEETINGS

- 2017 16th International Congress of Cardiothoracic and Vascular Anesthesia (ICCVA), Rio, Brazil.
- 2016 16th World Congress of Anaesthesiologists, Hong Kong.
- 2016 63rd Brazilian Congress of Anesthesiology, Brasilia, Brazil.
- 2015 SCA/ICCVA 37th Annual Meeting & Workshops, Washington DC, USA.
- 2015 62th Brazilian Congress of Anesthesiology, Florianópolis, Brazil.
- 2010 57th Brazilian Congress of Anesthesiology, Porto Alegre, Brazil.

RESEARCH ACTIVITIES

- 2017 – present Principal investigator and Coordinating Center in Brazil
Project: A Multicenter, Randomized, Controlled Clinical Trial of Cerebral Oxygen Saturation Monitoring In Cardiac Surgery (COSMICS Study)

- 2016 – present Principal investigator and Coordinating Center in Brazil
Project: Transfusion Requirements in Cardiac Surgery (TRICS III Study)
Applied Health Research Center (AHRC), Toronto, Canada
Collaborator with Dr. David Mazer and Dr. Nadine Shehata(Lead Investigators)

- 2014 Principles and Practice of Clinical Research Course
Department of Continuing Education, Harvard Medical School, USA
Clinical and Research Training Program
Partially completed

PUBLICATIONS IN JOURNAL ARTICLES

1. Miles LF, Coulson T, **Galhardo Jr., C.**, Falter F. (ahead of printing) Pump Priming and Anticoagulation in Cardiac Surgery: Results from the Global Cardiopulmonary Bypass Survey. *Anesth Analg* 2017;XXX:00-00.
2. Salgado M, **Galhardo Jr., C.**, Skin A, Papa F, Botelho E.S, Baeta C, Lineburger E, Ramalho M, Gomes M.D.A, Tessmer C, Doria H. (in press) Perioperative Transesophageal Echocardiography Consensus from the TEE Working Group of the Brazilian Society of Anesthesiology and the Cardiovascular Imaging Department of the Brazilian Society of Cardiology. *Brazilian Journal of Anesthesiology*.
3. **Galhardo Jr., C.** and Bersot, C.D.A. Comment to article Improved Hemodynamics with the Use of Prophylactic Infusion of Epinephrine and or Norepinephrine during Transcatheter Aortic Valve Replacement (TAVR). *Open Journal of Anesthesiology* 2015; 5, 217-218.
4. **Galhardo Jr., C.** Hybrid Operating Room: a new reality in Brazil and worldwide. *Rev Bras de Cardiol* 2013; 26:7-10.
5. **Galhardo Jr., C.**, Botelho E.S.L., Diego L.A.S. Intraoperative Monitoring with Transesophageal Echocardiography in Cardiac Surgery. *Rev Bras Anesthesiol* 2011; 61(4):495-512.
6. **Galhardo Jr., C.** Letter to the Editor – reply. Changes in Surgical Conduct Due to the Results of Intraoperative Transesophageal Echocardiography. *Rev Bras Anesthesiol* 2010; 60(2):192-197.
7. **Galhardo Jr., C.** Safety in the operating room. *Brazilian Journal of Angiology and Vascular Surgery*; VI: 18-21, Nov/Dec 2008.

BOOK CHAPTERS

1. **Galhardo Jr., C.**, Salgado M, Daher M.A.D. Anesthesia in a Patient with Cardiac Disease. (In press) Edited by Grupo A. Book: Anestesiologia 2nd Ed.
2. **Galhardo Jr., C**, Falcão L.F.R., Santos J.H.P. Anesthesia for cardiovascular surgery: Anesthetic management for ON and OFF coronary artery bypass surgery. Edited by SBA, Chapter 7, p 75-87, 2015.
3. **Galhardo Jr., C**, Vegas A. Off-pump coronary artery bypass surgery: Anesthetic Considerations. Edited by Panamericana. Book: Situaciones Clínicas en Anestesia y en Anestesia y en Cuidados Críticos. Chapter 87, p 315-317, 2013.
4. Diego LAS, **Galhardo Jr., C**. Cardiovascular Monitoring. In: Anesthesia for Vascular Surgery. Edited by SAERJ, Chapter 2, p 36-49, 2008.
4. **Galhardo Jr., C**, Diego LAS. Anesthesia for Transesophageal Echocardiography. In: Anesthesia Outside the Operating Room. Edited by SAERJ, Chapter 9, p 177-183, 2007.
5. **Galhardo Jr., C**, Diego LAS. Anesthesia for Electrical Cardioversion. In: Anesthesia Outside the Operating Room. Edited by SAERJ, Chapter 11, p 195-205, 2007.

ABSTRACTS

1. Nascimento CA, Carvalho LAF, **Galhardo Jr., C**. Echocardiography role in transcatheter aortic valve implantation (TAVI). 32nd Congress of the Cardiology Society of Rio de Janeiro, Rio de Janeiro, 2015.
2. **Galhardo Jr., C**, Macedo JLC, Siciliano AO, Diego LAS. Recombinant factor VIIa for massive bleeding after Redo CABG. Case report. Annals of 55th Brazilian Congress of Anesthesiology, São Paulo, 2008.
3. **Galhardo Jr., C**, Silva AF, Botelho ESL, Siciliano AO. Improving potential heart donor management by TEE. Annals of 55th Brazilian Congress of Anesthesiology, São Paulo, 2008.
4. **Galhardo Jr., C**, Galhardo SLR, Siciliano AO, Freitas RM, Diego LAS. Intraoperative transesophageal echocardiography monitoring for aortic valve repair. Annals of 53rd Brazilian Congress of Anesthesiology, Rio de Janeiro, 2006.
5. Freitas RMC, Varella RQ, **Galhardo Jr., C**, Siciliano AO, Diego LAS. Porcine heart dissection workshop: Anatomical correlations with TEE views. Annals of 53rd Brazilian Congress of Anesthesiology, Rio de Janeiro, 2006.
6. Diego LAS, **Galhardo Jr., C**, Botelho ESL, Freitas RM, Siciliano Jr AO. Intraoperative transesophageal echocardiography: Implementation experience in cardiac anesthesia service. Annals of 53rd Brazilian Congress of Anesthesiology, Rio de Janeiro, 2006.
7. AS Crespo, **C Galhardo**, CG Silveira, HJ Dhommann. Assessment of the agreement between cardiac output measured by thermal filament continuous thermodilution (CCO) and noninvasive partial CO₂ rebreathing (NICO) with particular reference to ETCO₂ levels. Critical Care 2002, 6 (suppl 1), p.90.
8. AS Crespo, C Menezes, **C Galhardo**, ON Barbosa, LA Diego. Comparison of cardiac output (CO) measurement before and after cardiopulmonary bypass: bolus thermodilution (TD_{CO}) and noninvasive partial CO₂ rebreathing (NICO). Critical Care 2002, 6 (suppl 1), p.90-91.
9. AS Crespo, W Zin, **C Galhardo**, CG Silveira, HJ Dohmann. Patterns in oxygenation, dead space ventilation, lung mechanics and CO₂ kinetics after prolonged cardiopulmonary bypass: an analysis by the CO₂ SMO-PLUS. <http://ccforum.com/supplements/5/S3>, 2002.
10. Galhardo SLR, Diego LAS, **Galhardo Jr., C**, Crespo AS. Anesthesia in a 16 weeks pregnant woman for CABG. Case report. Annals of 48th Brazilian Congress of Anesthesiology, Recife, 2001.

11. Crespo AS, Menezes C, **Galhardo Jr., C**, Diego LAS. Cardiac output monitoring during cardiac surgery: Non-invasive/continuously x thermodilution/intermittent. Annals of 48th Brazilian Congress of Anesthesiology, Recife, 2001.
12. Crespo AS, Leme K, **Galhardo Jr., C**, Zin WA. Ventilatory pattern during cardiac surgery: Which is the best adjustment? Annals of 47th Brazilian Congress of Anesthesiology, São Paulo, 2000.
13. Crespo AS, **Galhardo Jr., C**, Garcia C, Zin WA. Changes in ventilatory pattern and oxygenation after extracorporeal circulation: An argument for fast track technique? Annals of 47th Brazilian Congress of Anesthesiology, São Paulo, 2000.
14. **Galhardo Jr., C**, Cassini LB, Diego LAS. Anesthesia in a patient with definitive pacemaker. Case report. Annals of 45th Brazilian Congress of Anesthesiology, Fortaleza, 1998.

INVITED PRESENTATIONS

1. Instructor and speaker: XV Perioperative TEE Course
Brazilian Society of Anesthesiology
Rio de Janeiro, Brazil, May 2017.
2. Lecture: Innovations in Hemodynamic Monitoring.
39th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists.
Orlando, USA, April 2017.
3. Lecture: Hemotherapy: A rational approach to transfusion protocols.
Paulista Congress of Anesthesiology,
São Paulo, Brazil, April 2017.
4. Lecture: Cerebral Oximetry Monitoring: Does the Evidence is Robust?
Paulista Congress of Anesthesiology,
São Paulo, Brazil, April 2017.
5. Lecture: Anticipating and Managing Postoperative Delirium and POCD.
ASA Annual Meeting (Anesthesiology 2016)
Chicago, USA, October 2016.
6. Lecture: Pulmonary hypertension and right ventricular heart failure management strategies in heart transplantation.
16th World Congress of Anaesthesiologists
Hong Kong, August 2016.
7. Instructor and speaker: XII Perioperative TEE Course
Brazilian Society of Anesthesiology
Rio de Janeiro, Brazil, June 2016.
8. Lecture: Thromboelastography: Practical approach to bedside
XIX Congress of Intensive Care Society of Rio de Janeiro
Rio de Janeiro, Brazil, June 2016.
9. Instructor and speaker: XI Perioperative TEE Course
Brazilian Society of Anesthesiology
Rio de Janeiro, Brazil, May 2016.
10. Lecture: How to Assess Tricuspid Regurgitation.
38th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists.
San Diego, USA, April 2016.
11. Cardiovascular Session Coordinator
Paulista Congress of Anesthesiology
São Paulo, Brazil, April 2016.
12. Instructor: TEE and TTE Workshop.
Paulista Congress of Anesthesiology
São Paulo, Brazil, April 2016.

13. Lecture: The Future of Cardiovascular and Thoracic Anesthesia.
Paulista Congress of Anesthesiology,
São Paulo, Brazil, April 2016.
14. Lecture: Blood Component Therapy: A rational approach to transfusion protocols.
SCA/ICCVA 37th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists.
Washington DC, USA, April 2015.
15. Lecture: Ventricular Assist Devices: What Do We Need To Know?
62nd Brazilian Congress of Anesthesiology,
Florianópolis, Brazil, November 2015.
16. Lecture: Bleeding Management in Cardiac Surgery.
62nd Brazilian Congress of Anesthesiology
Florianópolis, Brazil, November 2015.
17. Lecture: TEE in non-cardiac surgery: Which surgeries and applications?
5th Congress on Cardiovascular Imaging of the Brazilian Society of Cardiology
Rio de Janeiro, Brazil, April 2015.
18. Lecture: Echocardiography in the OR and ER.
5th Congress on Cardiovascular Imaging of the Brazilian Society of Cardiology
Rio de Janeiro, Brazil, April 2015.
19. Lecture: Pseudoaneurysm of the Mitral-Aortic Fibrosa – TEE Assessment.
EACTA 2014 Annual Meeting and 14th ICCVA Meeting
Florence, Italy, September 2014.
20. Lecture: Adequacy of Vasoactive Drugs and Volume Replacement Based on TEE.
61st Brazilian Congress of Anesthesiology
Recife, Brazil, November 2014.
21. Lecture: Strategies for blood conservation in Cardiac Surgery.
61st Brazilian Congress of Anesthesiology
Recife, Brazil, November 2014.
22. Lecture: Mitral Stenosis – TEE Assessment.
2014 Updating Symposium on Anesthesia by the University of São Paulo
São Paulo, Brazil, March 2014.
23. Lecture: Anesthesia Management for Transcatheter Aortic Valve Implantation.
2014 Updating Symposium on Anesthesia by the University of São Paulo
São Paulo, Brazil, March 2014.
24. Lecture: Coagulation Monitoring: Alternatives and Evidences.
2014 Updating Symposium on Anesthesia by the University of São Paulo
São Paulo, Brazil, March 2014.
25. Lecture: New technologies with TEE in the operating room.
34th Meeting of the National Cardiology Institute
Rio de Janeiro, Brazil, 2013.
26. Lecture: Advanced Monitoring in high-risk surgical procedure.
47th Southeast Meeting in Anesthesiology
Rio de Janeiro, Brazil, 2013.
27. Lecture: Thromboelastometry in Cardiac Surgery.
1st Latin America Meeting on Perioperative Bleeding Management Workshop
São Paulo, Brazil, 2013.
28. Lecture: Coagulation Management in Cardiovascular Surgery: Latin America Perspectives.
LATAM Severe Bleeding Management Workshop
Rio de Janeiro, Brazil, 2013.
29. Lecture: Thromboelastography and Cardiac Surgery: Is It Worth The Investment?
8th Paulista Congress of Anesthesiology
São Paulo, Brazil, 2011.

30. Lecture: Anesthesia in Patients with Advanced Valvular Heart Disease for Non-Cardiac Procedures.
8th Paulista Congress of Anesthesiology
São Paulo, Brazil, 2011.
31. Lecture: New Methods for Coagulation: Pros and Cons
International Congress of Thrombosis and Hemostasis
Rio de Janeiro, Brazil, 2010.
32. Lecture: Hemodynamic Monitoring by Transesophageal Echocardiography
57th Brazilian Congress of Anesthesiology
Porto Alegre, Brazil, 2010.
33. Lecture: Anesthesia in Patients with Diastolic Dysfunction
57th Brazilian Congress of Anesthesiology
Porto Alegre, Brazil, 2010.
34. Lecture: Perioperative Techniques to Avoid the Use of Blood Products
VI Brazilian Workshop on Cardiac Transplantation and Mechanical Circulatory Support
Fortaleza, Brazil, 2010.
35. Lecture: Cardiovascular Monitoring
XV CET/SAERJ Integrated Anesthesia Course
Rio de Janeiro, Brazil, 2010.
36. Lecture: Medular Protection for Thoracic Aortic Aneurysm Repair
XXIV Angiology and Vascular Surgical Meeting
Rio de Janeiro, Brazil, 2010.
37. Lecture: Cardiovascular Monitoring
XIV CET/SAERJ Integrated Anesthesia Course
Rio de Janeiro, Brazil, 2009.
38. Lecture: Cardiovascular Monitoring
XII CET/SAERJ Integrated Anesthesia Course
Rio de Janeiro, Brazil, 2008.
39. Lecture: Perioperative TEE Monitoring
Rio Anesthesia Meeting
Rio de Janeiro, Brazil, 2007.
40. Lecture: TEE – Anatomical Basis
Workshop during the IV International Meeting on Cardiac Anesthesia
Rio de Janeiro, Brazil, 2007.
41. Lecture: Ideal Ht/Hb Levels during Cardiopulmonary Bypass
IV International Meeting on Cardiac Anesthesia
Rio de Janeiro, Brazil, 2007.
42. Lecture: Cardiovascular Monitoring
XII CET/SAERJ Integrated Anesthesia Course
Rio de Janeiro, Brazil, 2007.
43. Lecture: TEE – Anesthesiologist Perspective
XXX North-Northeast Meeting of Anesthesiology
Manaus, Brazil, 2006.
44. Lecture: Management of Perioperative Acute Myocardial Infarction
XXX North-Northeast Meeting of Anesthesiology
Manaus, Brazil, 2006.
45. Lecture: Importance of TEE During Mitral Valve Repair
International Congress of Cardiovascular Sciences / 25th ACCERJ Congress
Rio de Janeiro, Brazil, 2005.

International Educational Activities – Participation of Attendance

1. 39th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists
April 22-26, 2017, Orlando, USA
2. ASA Annual Meeting (Anesthesiology 2016)
Chicago, USA, October 2016.
3. 16th World Congress of Anaesthesiologists
Hong Kong, August 28-September 2, 2016.
4. 38th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists
April 2-6, 2016, San Diego, USA.
5. Advanced Concepts in Patient Blood Management Course provided by the Society for the Advancement of Blood Management at the Annual Meeting. September 24-26, 2015. Orlando, USA.
6. Fundamentals of Patient Blood Management Course provided by the Society for the Advancement of Blood Management at the Annual Meeting. September 24-26, 2015. Orlando, USA.
7. Society for the Advancement of Blood Management's Annual Meeting. September 24-26, 2015. Orlando, USA.
8. Seminar in Perioperative Bleeding Management/Patient Blood Management.
May 25-26, 2015. Danube University Krems, Austria.
9. ICCVA/SCA 37th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists
April 11-15, 2015, Washington DC, USA.
10. EACTA 2014 Annual Meeting and 14th ICCVA
September 17th-19th, 2014, Florence, Italy.
11. The European Anaesthesiology Congress - Euroanaesthesia.
May 31-June 3, 2014, Stockholm, Sweden.
12. 35th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists
April 6-10, 2013, Miami, USA.
13. 2012 Echo Fundamentals, Society of Cardiovascular Anesthesiologists
February 6-11, 2012, San Diego, USA.
14. 2012 Echo Application, Society of Cardiovascular Anesthesiologists
February 9-11, 2012, San Diego, USA.
15. 34th Annual Meeting & Workshops, Society of Cardiovascular Anesthesiologists
April, 28-May 2, 2012, Boston, USA.
16. Mechanical Circulatory Support Workshop at the 34th Annual Meeting & Workshops,
Society of Cardiovascular Anesthesiologists
April, 28-May 2, 2012, Boston, USA.
17. International Symposium on Ultrasound and Regional Anesthesia 2012 – Focused Cardiac
Ultrasound Study Program.
June 2012, Toronto, Canada.
18. 31st Annual Meeting and Workshops, Society of Cardiovascular Anesthesiologists
April 18-22, 2009. San Antonio, TX, USA.
19. Workshop: Point of Care Hemostasis
April 22, 2009. San Antonio, TX, USA.
20. Workshop: Advanced TEE
April 18, 2009. San Antonio, TX, USA.
21. Workshop: Essentials of CPB
April 18, 2009. San Antonio, TX, USA.
22. PBLD: A Patient w/Type A Dissection & Marfans Syndrome
April 21, 2009. San Antonio, TX, USA.

23. PBLD: Perioperative Strategies to Minimize TRALI
April 20, 2009. San Antonio, TX, USA.
24. PBLD: Endovascular Challenges
April 22, 2009. San Antonio, TX, USA.
25. 11th International Congress of Cardiothoracic and Vascular Anesthesia
September 14-18, 2008. Berlin, Germany.
26. Workshop: Airway Management: Today and Tomorrow
September 14, 2008. Berlin, Germany.
27. Workshop: TEE for Cardiovascular Anesthesiologist
September 15, 2008. Berlin, Germany.
28. Workshop: Hands on TEE – Intraoperative Transesophageal
September 16, 2008. Berlin, Germany.
29. Workshop: Advanced TEE – Role of ECHO in Perioperative Decision Making
September 17, 2008. Berlin, Germany.
30. Comprehensive Rev & Update of Echo – Basic
February 13-15, 2006. San Diego, CA, USA.
31. Comprehensive Rev & Update of Echo – Advanced
February 16-18, 2006. San Diego, CA, USA.
32. 27th Annual Meeting and Workshops, Society of Cardiovascular Anesthesiologists
May 14-18, 2005. Baltimore, Maryland, USA.
33. Workshop: Perioperative Echo: A Comprehensive, Interactive Review
May 18, 2005. Baltimore, Maryland, USA.
34. Workshop: Practical Echocardiography I
May 14, 2005. Baltimore, Maryland, USA.
35. Workshop: Practical Echocardiography II
May 14, 2005. Baltimore, Maryland, USA.
36. Dannemiller Memorial Education Foundation
Educational Activities: Controlling Inflammation and Exploring Anti-Inflammatory
Strategies in CABG Surgery
May 15, 2005. Baltimore, Maryland, USA.
37. The ASA Annual Meeting
October 14-18, 2000. San Francisco, California, USA.
38. The ASA Annual Meeting
October 17-21, 1998. Orlando, Florida, USA.