
BIOGRAPHICAL SKETCH

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|---|----------------------------------|---------|----------------|
| NAME Tang, Wanchun | POSITION TITLE Professor | | |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> | | | |
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| Shanghai Second Medical University, PRC | M.D. | 1977 | Medicine |

A. Positions and Honors

Positions and Employment

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|--------------|---|
| 1984-1990 | Asst. Prof., Attending Surgeon, Cardiothoracic Surgery, Shanghai Shu Guang Hospital |
| 1988-1990 | Research Fellow, Medicine, UHS/The Chicago Medical School |
| 1990-1994 | Research Assistant Professor, Medicine, UHS/The Chicago Medical School |
| 1994-1998 | Associate Professor, Medical Research, The Institute of Critical Care Medicine |
| 1998-2005 | Professor, Medical Research, The Institute of Critical Care Medicine |
| 1995-1998 | Clinical Associate Professor, Anesthesiology, University of Southern California |
| 1998-Present | Clinical Professor, Anesthesiology, University of Southern California |
| 2005-2007 | Professor and Executive Vice President, Weil Institute of Critical Care Medicine |
| 2007-Present | Professor, President, CEO, CSO, Weil Institute of Critical Care Medicine |

Honors

- 1984 "Outstanding Surgeon of the Year" award, Shanghai Shu Guang Hospital, China
- 1989 First Prize in Basic Sciences, 18th Educational and Scientific Symposium of the Society of Critical Care Medicine, New Orleans, LA
- 1991 Henry Christian Award for Excellence in Research. National Meeting, American Federation for Clinical Research, Seattle, WA
- 1991 DuPont Pharmaceutical/ACCP Young Investigator Award, 57th Annual Scientific Assembly of American College of Chest Physicians, San Francisco, CA
- 1993 Young Investigator Award, 22nd Educational and Scientific Symposium of Society of Critical Care Medicine, New York, NY
- 1995 Du Pont Pharmaceuticals/American College of Chest Physicians Young Investigator Award 61st Annual Scientific Assembly of American College of Chest Physicians, New York, NY
- 1997 Established Investigator Research Award. Society of Critical Care Medicine. July 1997-July 1999.

Author or co-author of more than 200 literature citations and 18 patents, 4 pending

B. Selected Peer-reviewed Publications

1. Tang W, Weil MH, Gazmuri RJ, Sun SJ, Duggal C, Bisera J. Pulmonary ventilation/perfusion defects induced by epinephrine during cardiopulmonary resuscitation. *Circulation* 1991;84(5):2101-2107.
2. Tang W, Weil MH, Sun SLJ, Gazmuri RJ, Bisera J. Progressive myocardial dysfunction after cardiac resuscitation. *Crit Care Med* 1993;21:1046-1050.
3. Tang W, Weil MH, Noc M, Sun SJ, Gazmuri RJ, Bisera J. Augmented efficacy of external CPR by intermittent occlusion of the ascending aorta. *Circulation* 1993; 88(1):1916-1921.
4. Tang W, Weil MH, Sun SJ, Gazmuri RJ, Bisera J. Gastric intramural PCO₂ as a monitor of perfusion failure during hemorrhagic and anaphylactic shock. *J Appl Physiol* 1994;76(2):572-577.
5. Tang W, Weil MH, Sun S, Kette D, Kette F, Gazmuri R, O'Connell F, Bisera J. Cardiopulmonary resuscitation by precordial compression but without mechanical ventilation. *Am J Respir Crit Care Med* 1994;150:1709-1713.
6. Tang W, Weil MH, Sun SJ, Noc M, Yang, Gazmuri RJ. Epinephrine increases the severity of post-resuscitation myocardial dysfunction. *Circulation* 1995;92:3089-3093.
7. Tang W, Pakula JL, Weil MH, Noc M, Fukui M, Bisera J. Adrenergic vasopressor agents and mechanical ventilation for the treatment of experimental septic shock. *Crit Care Med* 1996;24:125-130.

8. Tang W, Weil MH, Schock RB, Sato Y, Lucas J, Sun SJ, Bisera J. Phased chest and abdominal compression-decompression: A new option for cardiopulmonary resuscitation. *Circulation* 1997;75:1335-40
9. Tang W, Weil MW, Sun S, Yamaguchi H, Povoas HP, Marn Pernat A, Bisera J. The effects of biphasic and conventional monophasic defibrillation on postresuscitation myocardial function. *J Am Coll Cardiol*. 1999;34(3):815-822.
10. Tang W, Weil MH, Sun SJ, Pernat A, Mason E. KATP channel activation reduces the severity of postresuscitation myocardial dysfunction. *Am J Physiol* 2000;279:H1609-H1615.
11. Sun S, Weil MH, Tang W, Kamohara T, Klouche K. Alpha-methylnorepinephrine, a selective alpha2-adrenergic agonist for cardiac resuscitation. *J Am Coll Cardiol* 2001;37(3):951-956.
12. Tang W, Weil MH, Sun S, Povoas HP, Klouche K, Kamohara T, Bisera J. A comparison of biphasic and monophasic waveform defibrillation after prolonged ventricular fibrillation. *Chest* 2001;120(3):948-954.
13. Klouche K, Weil MH, Tang W, Povoas H, Kamohara T, Bisera J. A selective α -adrenergic agonist for cardiac resuscitation. *J Lab Clin Med* 2002; 140:27-34.
14. Tang W, Weil MH, Jorgenson D, Klouche K, Morgan C, Yu T, Sun S, Snyder D. Fixed-energy biphasic waveform defibrillation in a pediatric model of cardiac arrest and resuscitation. *Crit Care Med* 2002; 30(12):2736-2741.
15. Klouche K, Weil MH, Sun S, Tang W, Zhao DH. A comparison of α -methylnorepinephrine, vasopressin and epinephrine for cardiac resuscitation. *Resuscitation* 2003;57:93-100.
16. Cao L, Weil MH, Sun S, Tang W. Vasopressor agents for cardiopulmonary resuscitation. *J Cardiovasc Pharmacol Therapeut* 2003; 8(2):115-121.
17. Pellis T, Weil MH, Tang W, Sun S, Xie J, Song L, Checchia P. Evidence favoring the use of an α 2-selective vasopressor agent for cardiopulmonary resuscitation. *Circulation* 2003; 108(21):2716-2721.
18. Tang W, Weil MH, Sun SJ, Jorgenson D, Morgan C, Klouche K, Snyder D. The effects of biphasic waveform design on post resuscitation myocardial function. *J Am Coll Cardiol* 2004; 43(7):1228-1235.
19. Sun SJ, Weil MH, Tang W, Kamohara T, Klouche K. Delta-opioid receptor agonist reduces the severity of post resuscitation myocardial dysfunction. *Am J Physiol* 2004; 287(2):H969-H974.
20. Huang L, Weil MH, Sun SJ, Tang W, Fang X. Carvedilol mitigates adverse effects of epinephrine during cardiopulmonary resuscitation. *J Cardiovasc Pharmacol Ther* 2005; 10:113-120
21. Wang J, Weil MH, Tang W, Sun S, Huang L. Levosimendan improves postresuscitation myocardial dysfunction after beta-adrenergic blockade. *J Lab Clin Med* 2005;146(3):179-183.
22. Tang W, Snyder D, Wang J, Huang L, Chang Y-T, Sun S, Weil MH. One-shock versus three-shock defibrillation protocol significantly improves outcomes in a porcine model of prolonged ventricular fibrillation cardiac arrest. *Circulation* 2006; 113:2683-2689
23. Fries M, Tang W, Chang Y-T, Wang J, Castillo C, Weil MH. Microvascular blood flow during cardiopulmonary resuscitation is predictive of outcome. *Resuscitation* 2006; 71:248-253
24. Ristagno G, Sun S, Tang W, Castillo C, Weil MH. Effects of epinephrine and vasopressin on cerebral microcirculatory flows during and after cardiopulmonary resuscitation. *Crit Care Med* 2007; 35:2145-2149.
25. Ristagno G, Tang W, Xu TY, Sun S, Weil MH. Outcomes of CPR in the presence of partial occlusion of left anterior descending coronary artery. *Resuscitation* 2007; 75(2):357-365.
26. Ristagno G, Tang W, Sun S, Weil MH. Spontaneous gasping produces carotid blood flow during untreated cardiac arrest. *Resuscitation* 2007; 75(2):366-371.
27. Ristagno G, Tang W, Sun S, Weil MH. Cerebral cortical microvascular flow during and following cardiopulmonary resuscitation after short duration of cardiac arrest. *Resuscitation* 2008;77(2):229-34.
28. Ristagno G, Tang W, Russell JK, Jorgenson D, Wang H, Sun S, Weil MH. Minimal interruption of cardiopulmonary resuscitation for a single shock as mandated by automated external defibrillations does not compromise outcomes in a porcine model of cardiac arrest and resuscitation. *Crit Care Med* 2008;36(11):3048-53
29. Wang H, Tang W, Ristagno G, Li Y, Sun S, Wang T, Weil MH. The potential mechanisms of reduced incidence of ventricular fibrillation as the presenting rhythm in sudden cardiac arrest. *Crit Care Med* 2009;37(1):26-31.
30. Wang T, Tang W, Sun S, Ristagno G, Xu T, Weil MH. Improved outcomes of cardiopulmonary resuscitation in rats with myocardial infarction treated with allogenic bone marrow mesenchymal stem cells. *Crit Care Med* 2009;37(3):833-839.
31. Ristagno G, Tang W, Huang L, Fymat A, Chang YT, Sun S, Castillo C, Weil MH. Epinephrine reduces cerebral perfusion during cardiopulmonary resuscitation. *Crit Care Med* 2009; 37(4):1408-15.