

CURRICULUM VITAE

Jin Bo Tang, MD, PhD

Business Mailing Address: 235 Plain Street, Suite 501, Providence, RI 02905

EDUCATION

Nantong University (Formerly Nantong Medical College), major: Medicine, MD, June 1980-June 1985

Sapporo Medical University, PhD, 1991-1994

POSTGRADUATE TRAINING

Residency, Department of Orthopedics, Affiliated Hospital of Nantong University, 1985-1990

Fellowship in hand surgery, Department of Orthopedic Surgery, Sapporo Medical University, 1991-1992

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Board Certification: 199832110320602630921003, Health Bureau of Jiangsu Province, China

Licenses: 110320000011974, Health Bureau of Jiangsu Province, China
LA 00011, 00014, Rhode Island, Department of Health

ACADEMIC APPOINTMENTS

CURRENT POSITIONS:

Adjunct appointment of Professor of Surgery (Plastic Surgery), Department of Surgery, Brown Alpert Medical School, Providence, RI

Professor of Orthopedic Surgery, Nantong University, Jiangsu, China, Attending Orthopedic-hand surgeon, Affiliated Hospital of Nantong University, Jiangsu, China; Chair, Department of Hand Surgery, Affiliated Hospital of Nantong University, Jiangsu, China

October, 2011 – present: Adjunct Professor of Surgery (Plastic Surgery)
Brown Alpert Medical School,
Providence, RI

January, 1997–Current: Professor of Orthopedic Surgery,
Nantong University, Jiangsu, China

October, 1996-December, 1996: Associate Professor of Orthopedic Surgery,
Nantong Medical College,
Jiangsu, China

January, 1995 – September, 1996: Visiting Researcher, Musculoskeletal Research Center, West Virginia University

August, 1994- September, 1996: Associate Professor of Orthopedic Surgery, Nantong Medical College, Jiangsu, China

June, 1990 – August, 1994: Assistant Professor of Surgery, Nantong Medical College, Jiangsu, China

HOSPITAL APPOINTMENTS

October, 2012-present: Attending surgeon (Plastic Surgery), LPG, Rhode Island Hospital, RI

August, 2002– present: Attending orthopedic-hand surgeon, Department of Hand Surgery, Affiliated Hospital of Nantong University, Jiangsu, China

August, 1998– August, 2002: Chief of Hand Surgery, Affiliated Hospital of Nantong Medical University

January 1995- present: Chair, Hand Surgery Research Center Nantong University (formerly Nantong Medical College) Jiangsu, China

August, 1994- present: Attending orthopedic surgeon, Nantong University (formerly Nantong Medical College)

June, 1990– August, 1994: Attending surgeon, Affiliated Hospital of Nantong Medical College Jiangsu, China

OTHER APPOINTMENTS

Council Member, Federation of European Societies for Surgery of the Hand, 2017-

Council Member, British Society for Surgery of the Hand, 2017-

Executive Committee Member, International Federation of Societies for Surgery of the Hand, 2019-

Council Member, International Federation of Societies for Surgery of the Hand, 2017-

Member of Board of Director, Association of Chinese-speaking Hand Surgeons United, 2015-

Editor-in-chief, The Journal of Hand Surgery (European Volume), 2017-

Editor, The Journal of Hand Surgery (European Volume), 2013- 2016

Associate Editor, The Journal of Hand Surgery (American Volume), March 2008-Oct 2016

Member of Editorial Board: Canadian Journal of Plastic Surgery, January 2015-

Member of Journal Management, The Journal of Hand Surgery (European Volume),

January, 2013-2014, 2017-
Member of Editorial Board, The Journal of Hand Surgery (European Volume),
 January, 2008-2012.
Contributing editor, Yearbook of Hand Surgery and Upper Extremity (Am), 2007-2016
Corresponding editor, The Journal of Hand Surgery, British & European Volume, 1995-2007
 Consultant reviewer, The Journal of Hand Surgery (Am), 2003-2008
 Consultant reviewer, The Journal of Hand Surgery (Br), 2004-2007
 Consultant reviewer, Journal of Orthopedic Research, 2005-
 Consultant reviewer, Journal of Neuroscience Research, 2007-
 Consultant reviewer, British Medical Bulletin, 2009-
 Consultant reviewer, BMC Musculoskeletal Disorders, 2007-
 Consultant reviewer, Indian Journal of Medicine, 2008-
 Consultant reviewer, Clinical Orthopedic and Related Research, 2008-
 Consultant reviewer, Journal of Hand and Microsurgery, 2008-2010
 Consultant reviewer, Journal of Controlled Release, 2008-
 Consultant reviewer, American Journal of Physical Medicine and Rehabilitation, 2009-2015
 Consultant reviewer, Disability and rehabilitation, 2009-
 Consultant reviewer, Annals of Plastic Surgery, 2010-2013
 Consultant reviewer, Wound Repair and Regeneration, 2010-2012
Deputy Editor, Chinese Journal of Upper Extremity Surgery, 2001-2006
 Member of Editorial Board, Chinese Journal of Orthopedic Trauma, 1999-
 Member of Editorial Board, Chinese Journal of Hand Surgery, 2008-
 Member of Editorial Board, Chinese Journal of Reparative & Reconstructive Surgery, 1999-
 Member of Editorial Board, Chinese Journal of Trauma, 2008-
 Member of Editorial Board, Medical Journal of Communication, 1997-2002
 Member of Editorial Board, Jiangsu Medicine, 1999-2004
 Member of Editorial Board, Practical Orthopedics, 2003-2009
 Member, Committee on Flexor and Extensor Tendon, International Federation of Societies
 for Surgery of the Hand (IFSSH), 2003-2007
 Chair, Committee on Flexor and Extensor Tendon, International Federation of Societies
 for Surgery of the Hand (IFSSH), 2007-2011
 Committee Member, Continuing Education Courses in Hand Surgery, China, 2010-2011
 Committee Member, Continuing Education Courses in Hand Surgery, China, 2004-2007

NATIONAL AND INTERNATIONAL COMMITTEES

2003 Natural Science Foundation, Assessment Committee
 2003 Scientific Grant Committee, Arthritis Campaign Committee, UK.

- 2003 Committee member, Tendon Committee, International Federation of Society for Surgery of the Hand (IFSSH).
- 2006 Chair, Tendon Committee, International Federation of Society for Surgery of the Hand (IFSSH).
- 2006 Natural Science Foundation of China, Health Science Grant Committee
- 2007 Book proposal reviewer board, Lippincott Williams & Wilkins, Philadelphia, PA
- 2008 Scientific Grant Committee, Medical Researches Scotland, Scotland, UK
- 2006 Chair, Annual Hand Surgery Review Course, Nantong
- 2009 Chair, Annual Hand Surgery Review Course, Nantong
- 2009 Scientific Grant Committee, Medical Researches Scotland, Scotland, UK
- 2009 International Evaluation Committee, International Classification of Function (ICF)-Hand Function, Geneva, Switzerland, World Health Organization (WHO)
- 2009 Steering Committee, International Classification of Function (ICF)-Hand Function, Geneva, Switzerland, World Health Organization (WHO)
- 2010-2011 Senior Consultant, International Classification of Function (ICF)-Hand Function Evaluation Project, University of Munich, Germany

MEMBERSHIP IN SOCIETIES

- Member, American Society of Surgery of the Hand (ASSH), 2008-
- Member, International Society of Tissue Engineering and Regenerative Medicine, 2005-
- Member, Wound Healing Society, 2008-2017
- Honorary Member*, Australia Hand Surgery Society (AHSS), 2010-
- Honorary Member*, South Africa Hand Surgery Society (SAHSS), 2017-

PUBLICATIONS SUBMITTED OR IN PREPARATION

PUBLICATIONS LIST*

*(*The list here include 200 publications available from MEDLINE or in English journals; 250 peer-reviewed papers in other languages are not included.)*

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Zhou YL, Yang QQ, Yan YY, Zhang L, Wang QH, Ju F, **Tang JB**. Gene-loaded nanoparticle-coated sutures provide effective gene delivery to enhance tendon healing. *Mol Ther.* 2019;27(9):1534-1546

2. Jain A, Dunlop R, Hems T, **Tang JB**. Outcomes of surgical repair of a single digital nerve in adults. *J Hand Surg Eur Vol.* 2019;44(6):560-565
3. **Tang JB**. Fingertip repair methods: choices for different fingers and sides emphasizing sensation. *J Hand Surg Eur Vol.* 2019;44(10):1109-1111.
4. Xing SG, **Tang JB**. Extending applications of local anesthesia without tourniquet to flap harvest and transfer in the hand. *Hand Clin.* 2019;35(1):97-102
5. **Tang JB**, Gong KT, Xing SG, Yi L, Xu JH. Wide-awake hand surgery in two centers in China: Experience in Nantong and Tianjin with 12,000 patients. *Hand Clin.* 2019;35(1):7-12.
6. **Tang JB**, Xing SG, Ayhan E, Hediger S, Huang S. Impact of wide-awake local anesthesia no tourniquet on departmental settings, cost, patient and surgeon satisfaction, and beyond. *Hand Clin.* 2019;35(1):29-34
7. Elliot D, Adani R, Woo SH, **Tang JB**. Repair of soft tissue defects in finger, thumb and forearm: less invasive methods with similar outcomes. *J Hand Surg Eur Vol.* 2018;43(10):1019-1029.
8. **Tang JB**. New developments are improving flexor tendon repair. *Plast Reconstr Surg.* 2018;141(6):1427-1437.
9. Zhou YL, Yang QQ, Yan YY, Zhu C, Zhang L, **Tang JB**. Localized delivery of miRNAs targets cyclooxygenases and reduces flexor tendon adhesions. *Acta Biomater.* 2018;70:237-248.
10. Tan J, Chen J, Mu S, **Tang JB**, Garcia-Elias M. Length changes in scapholunate interosseous ligament with resisted wrist radial and ulnar inclination. *J Hand Surg Am.* 2018;43:482.e1-482.e7
11. Mao WF, Wu YF, Yang QQ, Zhou YL, Wang XT, Liu PY, **Tang JB**. Modulation of digital flexor tendon healing by vascular endothelial growth factor gene transfection in a chicken model. *Gene Ther.* 2017; 24:234-240.
12. **Tang JB**, Giddins G, Omokawa S, Boeckstyns MEH, Tay SC, Giesen T. Common hand problems with different treatments in countries in Asia and Europe. *Hand Clin.* 2017;33(3):561-569.
13. **Tang JB**, Zhou X, Pan ZJ, Qing J, Gong KT, Chen J. Strong digital flexor tendon repair, extension-flexion test, and early active flexion: Experience in 300 tendons. *Hand Clin.* 2017;33(3):455-463.
14. Chen J, Bhatt R, **Tang JB**. Technical points of 5 free vascularized flaps for the hand repairs. *Hand Clin.* 2017;33(3):443-454..
15. **Tang JB**, Gong KT, Zhu L, Pan ZJ, Xing SG. Performing hand surgery under local anesthesia without a tourniquet in China. *Hand Clin.* 2017;33(3):415-424

16. **Tang JB**, Landín L, Cavadas PC, Thione A, Chen J, Pons G, Masià J. Unique techniques or approaches in microvascular and microlymphatic surgery. *Clin Plast Surg*. 2017;44(2):403-414.
17. Battiston B, Ciclamini D, **Tang JB**. Compound or specially designed flaps in the lower extremities. *Clin Plast Surg*. 2017;44(2):287-297
18. Deng AD, Innocenti M, Arora R, Gabl M, **Tang JB**. Vascularized small-bone transfers for fracture nonunion and bony defects. *Clin Plast Surg*. 2017;44(2):267-285.
19. **Tang JB**, Wang ZT, Chen J, Wong J. A global view of digital replantation and revascularization. *Clin Plast Surg*. 2017;44(2):189-209.
20. Mao WF, Wu YF, Yang QQ, Zhou YL, Wang XT, Liu PY, **Tang JB**. Modulation of digital flexor tendon healing by vascular endothelial growth factor gene transfection in a chicken model. *Gene Ther*. 2017;24(4):234-240.
21. **Tang JB**, Wu YF, Cao Y, Chen CH, Zhou YL, Avanesian B, Shimada M, Wang XT, Liu PY. Basic FGF or VEGF gene therapy corrects insufficiency in the intrinsic healing capacity of tendons. *Sci Rep*. 2016;6:20643.
22. **Tang JB**, Zhou YL, Wu YF, Liu PY, Wang XT. Gene therapy strategies to improve strength and quality of flexor tendon healing. *Expert Opin Biol Ther*. 2016;16(3):291-301
23. Wu YF, Mao WF, Zhou YL, Wang XT, Liu PY, **Tang JB**. Adeno-associated virus-2-mediated TGF- β 1 microRNA transfection inhibits adhesion formation after digital flexor tendon injury. *Gene Ther*. 2016;23(2):167-75.
24. Xing SG, Chen YR, Xie RG, **Tang JB**. In vivo contact characteristics of distal radioulnar joint with malunited distal radius during wrist motion. *J Hand Surg Am*. 2015;40(11):2243-8
25. Ding WQ, Zhou XJ, **Tang JB**, Gu JH, Jin DS. Three-dimensional display of peripheral nerves in the wrist region based on MR diffusion tensor imaging and maximum intensity projection post-processing. *Eur J Radiol*. 2015;84(6):1116-27
26. Chen J, Tan J, **Tang JB**. Length changes of scapholunate interosseous ligament at different wrist positions: an in vivo 3-dimension image study. *Surg Radiol Anat*. 2015;37(7):765-72.
27. Xie RG, Xing SG, **Tang JB**. New procedures for precisely establishing volar wrist arthroscopic portals. *J Hand Surg Eur*. 2015;40(9):1014-5.
28. Zhou Y, Zhu C, Wu YF, Zhang L, **Tang JB**. Effective modulation of transforming growth factor- β 1 expression through engineered microRNA-based plasmid-loaded nanospheres. *Cytotherapy*. 2015;17(3):320-9.

29. **Tang JB**, Chen CH, Zhou YL, McKeever C, Liu PY. Regulatory effects of introduction of an exogenous FGF2 gene on other growth factor genes in a healing tendon. *Wound Repair Regen.* 2014;22(1):111-8.
30. Wu YF, **Tang JB**. The effect of asymmetric core suture purchase on gap resistance of tendon repair in linear cyclic loading. *J Hand Surg Am.* 2014;39(5):910-8
31. Chen YR, Wu YF, **Tang JB**, Giddins G. Contact areas of the scaphoid and lunate with the distal radius in neutral and extension: correlation of falling strategies and distal radial anatomy. *J Hand Surg Eur.* 2014;39(4):379-83
32. Tan J, Chen J, **Tang JB**. In vivo length changes of wrist ligaments at full wrist extension. *J Hand Surg Eur.* 2014;39(4):384-90
33. Wu YF, **Tang JB**. Apoptosis in adhesions and the adhesion-tendon gliding interface: relationship to adhesion-tendon gliding mechanics. *J Hand Surg Am.* 2013;38(6):1071-8.
34. Chen YR, **Tang JB**. Changes in contact site of the radiocarpal joint and lengths of the carpal ligaments in forearm rotation: an in vivo study. *J Hand Surg Am.* 2013;38(4):712-20.
35. Wu YF, Zhou YL, Mao WF, Avanesian B, Liu PY, **Tang JB**. Cellular apoptosis and proliferation in the middle and late intrasynovial tendon healing periods. *J Hand Surg Am.* 2012;37(2):209-16.
36. **Tang JB**, Chen YR. In vivo changes in contact regions of the radiocarpal joint during wrist hyperextension. *J Hand Surg Am.* 2012;37(11):2257-62
37. Wu YF, **Tang JB**. Effects of tension across the tendon repair site on tendon gap and ultimate strength. *J Hand Surg Am.* 2012;37(5):906-12.
38. Mao WF, Wu YF, Zhou YL, **Tang JB**. A study of the anatomy and repair strengths of porcine flexor and extensor tendons: are they appropriate experimental models? *J Hand Surg Eur.* 2011;36(8):663-9.
39. Wu YF, **Tang JB**. How much does a Pennington lock add to strength of a tendon repair? *J Hand Surg Eur.* 2011;36: 476-484
40. Tan J, Xu J, Xie RG, Deng AD, **Tang JB**. In vivo length and changes of ligaments stabilizing the thumb carpometacarpal joint. *J Hand Surg Am.* 2011;36:420-427.
41. Wu YF, Cao Y, Zhou YL, **Tang JB**. Biomechanical comparisons of four-strand tendon repairs with double-stranded sutures: effects of different locks and suture geometry. *J Hand Surg Eur.* 2011;36:34-39.
42. **Tang JB**, Gu XK, Xu J, Gu JH. In vivo length changes of carpal ligaments of the wrist during dart-throwing motion. *J Hand Surg Am.* 2011;36:284-290.
43. **Tang JB**, Xu J, Xie RG. Scaphoid and lunate movement in different ranges of carpal radioulnar deviation. *J Hand Surg Am.* 2011;36:25-30.

44. Cao Y, **Tang JB**. A new variant of four-strand tendon repairs. *J Hand Surg Eur*. 2010;35:513-515.
45. Wu YF, Chen CH, Cao Y, Avanesian B, Wang XT, **Tang JB**. Molecular events of cellular apoptosis and proliferation in the early tendon healing period. *J Hand Surg Am*. 2010;35:2-10.
46. Chen CH, Zhou YL, Wu YF, Cao Y, Gao JS, **Tang JB**. Effectiveness of microRNA in Down-regulation of TGF-beta gene expression in digital flexor tendons of chickens: *in vitro* and *in vivo* study. *J Hand Surg Am*. 2009;34:1777-1784.e1.
47. Cao Y, **Tang JB**. The Strength of repaired tendons decreases in the presence of an intact a2 pulley: a biomechanical study in a chicken model. *J Hand Surg [Am]*. 2009;34: 1763-1770.
48. **Tang JB**, Cao Y, Wu YF, Wang GH. Effect of A2 pulley release on repaired tendon gliding resistance and rupture in a chicken model. *J Hand Surg [Am]*. 2009;34: 1080-1087.
49. Xu J, **Tang JB**. In vivo length changes of selected carpal ligaments during wrist radioulnar deviation. *J Hand Surg [Am]*. 2009;34:401-408.
50. Xu J, **Tang JB**. In vivo changes in lengths of the ligaments stabilizing the distal radioulnar joint. *J Hand Surg [Am]*. 2009;34:40-45.
51. Liu PY, Wang XT, Xin KQ, Chen CH, Rieger-Christ K, Summerhayes IC, Wu YF, **Tang JB**. Application of AAV2-mediated bFGF gene therapy on survival of ischemic flaps: effects of timing of gene transfer. *Ann Plast Surg*. 2009;62:87-91.
52. Cao Y, Chen CH, Wu YF, Xu XF, Xie RG, **Tang JB**. Digital oedema, adhesion formation and resistance to digital motion after primary flexor tendon repair. *J Hand Surg [Eur]*. 2008;33:745-752.
53. Chen CH, Cao Y, Wu YF, Bias T, Gao JS, **Tang JB**. Tendon healing in vivo: gene expression and production of multiple growth factors in early tendon healing period. *J Hand Surg (Am)*. 33:1834-1842, 2008
54. **Tang JB**. Clinical use of autogenous nerve slices in nerve conduits for nerve repair. *J Hand Surg (Am)*. 33:1442, 2008
55. **Tang JB**. General concepts of wrist biomechanics and a view from other species. *J Hand Surg (Eur)*. 33:519-525, 2008
56. **Tang JB**, Cao Y, Zhu B, Xin KQ, Wang XT, Liu PY. Adeno-associated virus-2-mediated bFGF gene transfer to digital flexor tendons significantly increases healing strength. an in vivo study. *J Bone Joint Surg (Am)*. 90:1078-1089, 2008
57. Xie RG, Gu JH, Gong YP, **Tang JB**. Medial sural artery perforator flap for repair of the hand. *J Hand Surg (Eur)*. 32:512-517, 2008

58. Wang XT, Liu PY, **Tang JB**, Mizukami H, Xin KQ, Ozawa K, Ushijima H. Tendon healing in vitro: adeno-associated virus-2 effectively transduces intrasynovial tenocytes with persistent expression of the transgene, but other serotypes do not. *Plast Reconstr Surg*. 2007;119:227-34.
59. Zhu B, Cao Y, Xin KQ, Wang XT, Summerhayes IC, Liu PY, **Tang JB**. Tissue reactions of adenoviral, adeno-associated viral, and liposome-plasmid vectors in tendons and comparison with early-stage healing responses of injured flexor tendons. *J Hand Surg [Am]*. 2006;31:1652-60.
60. Cao Y, **Tang JB**. Resistance to motion of flexor tendons and digital edema: An in vivo study in a chicken model. *J Hand Surg [Am]*. 2006;31:1645-51.
61. **Tang JB**, Xie RG, Cao Y, Ke ZS, Xu Y. A2 pulley incision or one slip of the superficialis improves flexor tendon repairs. *Clin Orthop*. 2007;456: 121-7.
62. Wang XT, Liu PY, **Tang JB**. PDGF gene therapy enhances expression of VEGF and bFGF genes and activates the NF-kappaB gene in signal pathways in ischemic flaps. *Plast Reconstr Surg* 117:129-137, 2006
63. Cao Y, Zhu B, Xie RG, **Tang JB**. Influence of core suture purchase length on strength of 4-strand tendon repairs. *J Hand Surg (Am)* 31:107-112, 2006
64. Wang XT, Liu PY, Xin KQ, **Tang JB**. Tendon healing in vitro: bFGF gene transfer to tenocytes by adeno-associated viral vectors promotes expression of collagen genes. *J Hand Surg (Am)* 30:1255-1261, 2005
65. **Tang JB**, Zhang Y, Cao Y, Xie RG. Core suture purchase affects strength of tendon repairs. *J Hand Surg (Am)* 30:1262-1266, 2005
66. Liu PY, Liu K, Wang XT, Badiavas E, Rieger-Christ KM, **Tang JB**, Summerhayes IC. Efficacy of combination gene therapy with multiple growth factor cDNA to enhance skin flap survival in a rat flap. *DNA Cell Biology* 24:751-757, 2005
67. Liu PY, Wang XT, Badiavas E, Rieger-Christ K, **Tang JB**, Summerhayes I. Enhancement of ischemic flap survival by prefabrication with transfer of exogenous PDGF gene. *J Reconstr Microsurg* 21:273-279; 2005
68. Cao Y, **Tang JB**. Biomechanical evaluation of a four-strand modification of the Tang method of tendon repair. *J Hand Surg [Br]* 30:374-378;2005
69. Xie RG, **Tang JB**. Investigation of locking configurations for tendon repair. *J Hand Surg [Am]* 30:461-5; 2005
70. Xie RG, Xue HG, Gu JH, Tan J, **Tang JB**. Effects of locking area on strength of 2- and 4-strand locking tendon repairs. *J Hand Surg [Am]* 30:455-60; 2005
71. Bryan DJ, **Tang JB**, Doherty SA, Hile DD, Trantolo DJ, Wise DL, Summerhayes IC. Enhanced peripheral nerve regeneration through a poled bioresorbable poly (lactic-co-glycolic acid) guidance channel. *J Neural Eng* 1:91-98; 2004.

72. Wang XT, Liu PY, **Tang JB**. Tendon healing in vitro: modification of tenocytes with exogenous vascular endothelial growth factor gene increases expression of transforming growth factor beta but minimally affects expression of collagen genes. *J Hand Surg [Am]* 30:222-229; 2005.
73. **Tang JB**, Xu Y, Ding F, Wang XT. Expression of genes for collagen production and NF-kappaB gene activation of in vitro healing flexor tendons. *J Hand Surg (Am)* 29:564-570; 2004
74. Tan J, Ming L, Jia ZJ, **Tang JB**. Repairs of partial oblique tendon injuries: a biomechanical evaluation. *J Hand Surg (Br)* 29:381-385; 2004
75. **Tang JB**, Xu Y, Wang XT. Tendon healing in vitro: activation of NIK, IKKalpha, IKKbeta, and NF-kappaB genes in signal pathway and proliferation of tenocytes. *Plast Reconstr Surg* 113:1703-1711; 2004
76. Bryan DJ, **Tang JB**, Doherty SA, Hile DD, Trantolo DJ, Wise DL, Summerhayes IC. Enhanced peripheral nerve regeneration through a poled bioresorbable poly(lactic-co-glycolic acid) guidance channel. *J Neural Eng* 1:91-98;2004
77. Xu Y, **Tang JB**. Effects of superficialis tendon repairs on lacerated profundus tendons within or proximal to the A2 pulley: an in vivo study in chickens. *J Hand Surg (Am)* 28:994-1001;2003
78. **Tang JB**, Xu Y, Chen F. Impact of flexor tendon digitorum superficialis on gliding function of the flexor digitorum profundus according to regions in zone II. *J Hand Surg (Am)* 28:838-844; 2003
79. **Tang JB**, Tan J, Xu Y. Lengthening and locking: two ways to improve repair strength of obliquely lacerated tendons. *J Hand Surg (Am)* 28:832-837; 2003
80. Tan J, Wang B, Tan B, Xu Y, **Tang JB**. Changes in tendon strength after partial cut and effects of running peripheral sutures. *J Hand Surg (Br)* 28: 478-482; 2003
81. Wang B, Xie RG, **Tang JB**. Biomechanical analysis of a modification of Tang method of tendon repair. *J Hand Surg (Br)* 28:347-350; 2003
82. Hindman HB, Marty-Roix R, **Tang JB**, Jupiter JB, Simmons BP, Spector M. Regulation of expression of alpha-smooth muscle actin in cells of Duputren's contracture. *J Bone Joint Surg (Br)* 85:448-455; 2003
83. **Tang JB**, Xu Y, Ding F, Wang XT. Tendon healing in vitro: Promotion of collagen gene expression by bFGF with NF-kappa B gene activation. *J Hand Surg (Am)* 28:215-220; 2003
84. Bryan DJ, **Tang JB**, Holway AH, Reger-Christ KM, Trantolo DJ, Wise DL, Summerhayes IC. Enhanced peripheral nerve regeneration elicited by cell-mediated events delivered via a bioresorbable PLGA guide. *J Reconstr Microsurg* 19:125:134, 2003

85. Tan J, Wang B, Xu Y, **Tang JB**. Effects of direction of tendon lacerations on strength of tendon repairs. *J Hand Surg (Am)* 28:237-242; 2003
86. **Tang JB**, Xu Y, Wang B. Repair strength of tendons of varying gliding curvature: A study in a curvilinear model. *J Hand Surg (Am)* 28:243-249; 2003
87. Wang B, **Tang JB**. Embedded cross-stitch suture: an alternative to current cross-stitch peripheral suture. *J Hand Surg (Br)* 27:333-336; 2003
88. Tan J, Wang B, Tan B, Xu Y, **Tang JB**. Changes in tendon strength after partial cut and effects of running peripheral sutures. *J Hand Surg (Br)* 28:478-482; 2003
89. Gu YT, **Tang JB**, Xie RG. Management of sheath after repair of double tendons in zone IId. *Chin J Repair Reconstr Surg* 17:223-226; 2003
90. Xie RG, **Tang JB**, Chen HB. Application of reversed digital artery cross-finger flap with a compound skin pedicle. *Chin J Repair Reconstr Surg* 16:181-182; 2002
91. Cui ZM, **Tang JB**, Xie RG. Proliferative ability of the central area tenocytes of flexor tendons in vitro. *Chin J Repair Reconstr Surg* 16:262-264; 2002
92. Wang B, **Tang JB**. Increased suture embedment in tendons: an effective method to improve repair strength. *J Hand Surg (Br)* 27:333-336; 2002
93. Xie RG, Zhang S, **Tang JB**, Chen F. Biomechanical studies of 3 different 6-strand flexor tendon repair techniques. *J Hand Surg (Am)* 27:621-627; 2002
94. Cao Y, Xie RG, **Tang JB**. Dorsal-enhanced sutures improve tension resistance of tendon repair. *J Hand Surg (Br)* 27:161-164, 2002
95. **Tang JB**, Xie RG, Yu XW, Chen F. Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon. *J Orthop Res* 20:1327-1332; 2002
96. Xie RG, Zhang S, **Tang JB**, Chen F. Biomechanical studies of 3 different 6 strand flexor tendon repair techniques. *J Hand Surg (Am)* 27:621-627, 2002
97. Wang B, **Tang JB**. Increase in suture embedment in tendons: an effective way to improve the repair strength. *J Hand Surg (Br)* 27: 333-336, 2002
98. **Tang JB**, Ryu J, Omokawa S, Wearden S. Wrist kinetics after scapholunate dissociation: the effect of scapholunate interosseous ligament injury and persistent scapholunate gaps. *J Orthop Res* 20: 215-221, 2002
99. **Tang JB**, Cao Y, Xie RG. Effects of tension direction on strength of tendon repair. *J Hand Surg (Am)* 26: 1105-1110, 2001
100. **Tang JB**, Xie RG. Effect of A3 pulley and adjacent sheath on gliding and bowstringing of the flexor tendons. *J Hand Surg (Am)* 26: 855-861, 2001
101. **Tang JB**, Wang B, Chen F, Pan CZ, Xie RG. Biomechanical evaluation of flexor tendon repair techniques. *Clin Orthop* 386:252-259, 2001

102. Premdas J, **Tang JB**, Warner JP, Murray MM, Spector M. The presence of smooth muscle actin in fibroblasts in the torn human rotator cuff. *J Orthop Res* 19:221-228, 2001
103. **Tang JB**, Gu YT, Rice K, Chen F, Pan CZ. Evaluation of four methods of flexor tendon repair for postoperative active mobilization. *Plast Reconstr Surg* 107:742-749, 2001
104. **Tang JB**, Wang YH, Gu YT, Chen F. Effect of integrity on excursions and work of flexion in healing flexor tendons. *J Hand Surg (Am)* 26:347-353, 2001
105. Omokawa S, Ryu J, **Tang JB**, Han JS, Kish V. Trapeziometacarpal joint instability affects the moment arms of thumb motor tendons. *Clin Orthop* 372:262-271, 2000
106. **Tang JB**, Pan CZ, Xie RG, Chen F. A biomechanical study of Tang's multiple locking techniques for flexor tendon repair. *Chir Main* 18:254-60, 1999
107. **Tang JB**, Ryu J, Omokawa S, Han JS, Kish V. Biomechanical evaluation of wrist motor tendons after fractures of the distal radius. *J Hand Surg (Am)* 24:121-132, 1999
108. **Tang JB**, Ryu J, Kish V. The triangular fibrocartilage complex: an important component of the pulley for the ulnar wrist extensor. *J Hand Surg (Am)* 22: 986-991, 1998
109. **Tang JB**, Ryu J, Kish V. Scapholunate interosseous ligament adversely affects excursions of radial wrist extensor and flexor tendons. *J Hand Surg (Am)* 22:720-725, 1997
110. **Tang JB**, Ryu J, Kish V, Wearden S. Effect of radial shortening on muscle length and moment arms of the wrist flexors and extensors. *J Orthop Res* 15:324-330, 1997
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BOOKS AND BOOK CHAPTERS

Books Edited

1. Book edited: Techniques in Hand Surgery, **JB Tang**, ed, Shandong Science and Technology Press, 2017
2. Book edited: *Tendon Surgery of the Hand*. **JB Tang**, PC Amadio, JC Guimberteau, J Chang, eds. Elsevier, Inc., 2012.
3. Book edited: Distal Radius Fracture. **JB Tang**, ed, Shanghai Science and Technology Press, 2013.
4. Book edited: Tendon repair and reconstruction. **JB Tang**, Lee SK, eds An issue of Hand Clinics. Elsevier, Inc., 2013.
5. Book edited: Hand repair and reconstruction: Simple and Complex. **JB Tang**, Neumeister M, Eds. An issue of Clinics in Plastic Surgery. Elsevier, Inc., 2014.
6. Book: Tendon Surgery. **JB Tang**, Shanghai Science and Technology Press, 2015.

Book Chapters

- Chapter 10. Surgery management of flexor tendon injuries. Skirven TM, Osterman AL, Fedorczyk JM, Amadio PC, Feidscher SB, Shin EK, Ed. Rehabilitation of the hand and upper extremity. Philadelphia, Elsevier, Inc, USA, 2021.
- Chapter 9. Flexor tendon repairs and reconstruction. Neligan PC, Chang J, Ed. Plastic Surgery, Elsevier, Inc. USA, September, 2016
- Chapter: Wide awake flexor tendon repair. Don Lalonde, Ed. Wide Awake Hand Surgery, CRC Press. UK, 2016.
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- Chapter 9. Flexor tendon repairs and reconstruction. Neligan PC, Ed. Plastic Surgery,

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- Chapter: Tendon healing biology. In Diao E, Mass DP, eds, ASSH Master Skill Series. ASSH, September, 2011
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- Chapter: Biomechanics in hand surgery. In Wang SH, ed. Contemporary Hand Surgery. Shanghai People's Publishing House, China, 2003
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- a. Wang B, Xie RG, **Tang JB**. Letter to editor. *J Hand Surg (Br)* 29:307-308;2004
- b. **Tang JB**. "venting" or "release". *J Hand Surg [Am]*. 2009;34: 1921-2922.
- c. Cao Y, Wu YF, Xie RG, **Tang JB**. Models for tendon biomechanical investigations. *J Hand Surg [Am]*. 2009;34: 1160-1161.
- d. Cao Y, Xie RG, **Tang JB**. Re: Brockardt CJ, Sullivan LG, Watkins BE et al. Evaluation of simple and looped suture and new material for flexor tendon repair. *J Hand Surg Eur*. 2010;35:159.
- e. Mao WF, Wu YF, Zhou YL, **Tang JB**. Re: Havulinna J, Leppanen OV, Jarvinen TLN, Goransson H. Comparison of modified Kessler tendon suture at different levels in the human flexor digitorum profundus tendon and porcine flexors and porcine extensors: an experimental biomechanical study. *J Hand Surg Eur*. 2011, 36: 670-6.
- f. Wu YF, **Tang JB**. Letter regarding "a 10- or 12-strand core suture in a flexor tendon in zones I, II, and III". *J Hand Surg Am*. 2015;40(12):2510-1.

INVITED PRESENTATIONS/LECTURES

International

1. **Tang JB**. What has changed in flexor tendon repair since new millennium? The Congress of International Federation of Societies for Surgery of the Hand, Berlin, June 17-21, 2019

2. **Tang JB.** *Joint surgeons and therapists session lecture: Tips for ideal outcomes of flexor tendon repair.* The Congress of International Federation of Societies for Surgery of the Hand, Berlin, June 17-21, 2019
3. **Tang JB.** *International Guest Lecture: An update of key techniques of primary flexor tendon repairs.* The Congress of Japanese Orthopedic Association, Yokohama, Japan, October, 2019
4. **Tang JB.** *Biomechanics of flexor tendon repair.* The Zurich Workshop on Flaps and Tendon Repair, Zurich, Switzerland, January 28-31, 2019
5. **Tang JB.** *Outcomes of flexor tendon repair.* The Zurich Workshop on Flaps and Tendon Repair, Zurich, Switzerland, January 28-31, 2019
6. **Tang JB.** *International guest lecture: Keys to predictable outcomes of flexor tendon repair.* The 71st Annual Meeting of the American Society for Surgery of the Hand, Boston, September 12-15, 2018
7. **Tang JB.** *Journal session lecture: Journal updates.* The Congress of European Federation of Societies for Surgery of the Hand, Copenhagen, Denmark, June, 2018
8. **Tang JB.** *Guest Lecture: An update of primary flexor tendon repairs.* The Congress of Italian Society for Surgery of the Hand, Modena, Italy, October, 2017
9. **Tang JB.** *Guest Lecture: How wide awake hand surgery changed my practice and departmental settings.* The Congress of Italian Society for Surgery of the Hand, Modena, Italy, October, 2017
10. **Tang JB.** *Guest Lecture: An update on methods of flexor tendon repair.* The Congress of South African Society for Surgery of the Hand, Port Elizabeth, South Africa, September, 2017
11. **Tang JB.** *Guest Lecture: Wide awake surgery impacts departmental settings and beyond.* The Congress of South African Society for Surgery of the Hand, Port Elizabeth, South Africa, September, 2017
12. **Tang JB.** *Journal session lecture: Journal updates.* The Congress of European Federation of Societies for Surgery of the Hand, June 21-24, 2017, Budapest, Hungary
13. **Tang JB.** *Symposium lecture: Wide awake surgery impacts departmental settings and beyond.* The Congress of International Federation of Societies for Surgery of the Hand, BA, Argentina, September 22-26, 2016
14. **Tang JB.** *Invited lecture: Zone 1 flexor tendon repair. Challenges and controversies in hand surgery.* Chelmsford, Essex, UK. November 7-8, 2015 (Organizer: Mr David Elliot).
15. **Tang JB.** *Invited Guest lecture: Secrets of primary flexor tendon repair.* The 40th Annular Meeting of the Association of Argentine Hand Surgery (AACM). October 16, 2014 (Organizer: Dr. Carlos E. Martinez).

16. **Tang JB.** *Invited lecture:* Flexor tendon healing: biology. The 40th Annular Meeting of the Association of Argentine Hand Surgery (AACM). October 16, 2014 (Organizer: Dr. Carlos E. Martinez).
17. **Tang JB.** *Symposium Lecture* Flexor tendon reconstruction with allograft tendon. The 12th Congress of International Federation of Societies for Surgery of the Hand, New Delhi, March 15, 2013.
18. **Tang JB.** *Symposium Lecture* How to organize national hand society. The 12th Congress of International Federation of Societies for Surgery of the Hand, New Delhi, March 15, 2013.
19. **Tang JB.** *Mater Course* Flexor tendon repair: clinical methods. The 9th Congress of Asian-Pacific Federation of Societies for Surgery of the Hand, Bali, Indonesia, Oct 11-13, 2012.
20. **Tang JB.** Clinical problems and basic biology. Musculoskeletal Science: Bedside to Bench to Bedside, Gordon Research Conference. Andover, NH, USA, August 5-10, 2012.
21. **Tang JB.** Tissue engineering using growth factors. Musculoskeletal Science: Bedside to Bench to Bedside, Gordon Research Conference. Andover, NH, USA, August 5-10, 2012.
22. **Tang JB.** *Keynote Lecture:* Flexor tendon repairs: methods, outcomes, and biomechanical basis. The XVIth Meeting of Federation of European Societies for Surgery of the Hand (FESSH), Oslo, Norway, May 26, 2011 (Host: Prof. Lars-Eldar Myrseth)
23. **Tang JB.** *Symposium Lecture:* Management of Flexor Pulleys. The 11st Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November 2, 2010
24. **Tang JB.** *Symposium Lecture:* Flexor tendon healing biology. The 11st Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November 2, 2010
25. **Tang JB.** *International Guest Lecture:* Biomechanics, clinical techniques and outcomes of flexor tendon repair. The 83rd Congress of Japanese Association of Orthopedics (JOA), Tokyo, Japan, May 28, 2010 (Host: Prof. S. Miyamori)
26. **Tang JB.** Biomechanics, clinical techniques and outcomes of flexor tendon repair. The University of St Mariana, Yokohama, Japan, May 30, 2010 (Host: Prof. Moroe Beppu)
27. **Tang JB.** *International Guest Lecture:* Flexor tendon repair: Techniques and outcomes. 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 18, 2010 (Host: Dr Allison Mark)

28. **Tang JB.** *International Guest Lecture: Tendon gene therapy: my investigations in the past.* 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 18, 2010 (Host: Dr Allison Mark)
29. **Tang JB.** *International Guest Lecture: Biomechanics of tendon repair.* 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 18, 2010 (Host: Dr Allison Mark)
30. **Tang JB.** *International Guest Lecture: Study of wrist kinematics based on *in vivo* 3-D bone reconstruction.* 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 19, 2010 (Host: Dr Allison Mark)
31. **Tang JB.** *International Guest Lecture: Vein conduits interposed with nerve segments for peripheral nerve defects: my techniques and outcomes.* 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 20, 2010 (Host: Dr Allison Mark)
32. **Tang JB.** *International Guest Lecture: Application of medial sural perforator flaps in soft tissue reconstruction of the hand.* 2010 Annual Meeting of Australia Society for Surgery of the Hand, Canberra, Australia, March 20, 2010 (Host: Dr Allison Mark)
33. **Tang JB.** *Instructional Course Lecture: Extensor tendon repair in the hand.* Training Courses for Orthopedic and Plastic Surgeon Registers. Canberra, Australia, March 21, 2010 (Host: Dr Micheal Torkin)
34. **Tang JB.** *Instructional Course Lecture: Flexor tendon repair in the hand.* Training Courses for Orthopedic and Plastic Surgeon Registers. Canberra, Australia, March 21, 2010 (Host: Dr Micheal Torkin)
35. **Tang JB.** *Instructional Course Lecture: Wrist biomechanics.* Training Courses for Orthopedic and Plastic Surgeon Registers. Canberra, Australia, March 21, 2010 (Host: Dr Micheal Torkin)
36. **Tang JB.** *Keynote Lecture: How do I repair flexor tendons?* The International Symposium of Hand Surgery, Sapporo, Japan, April 25, 2007 (Host: Prof. Seiichi Ishii)
37. **Tang JB.** *Keynote Lecture: How do I repair flexor tendons?* The International Hand Surgery Symposium, Yamagata, Japan, April 23, 2007 (Host: Prof. Toshihoko Ogino)
38. **Tang JB.** *International Guest Lecture: Flexor tendon gene therapy.* At The 50th Annual Meeting of Japanese Society for Surgery of the Hand, Yamagata, Japan, April 19-22, 2007 (Host: Prof. Toshihoko Ogino)
39. **Tang JB.** *Invited Lecture: Flexor tendon repair method.* At The 10th Congress of International Federation of Societies for Surgery of the Hand, Sydney, Australia, March 10-15, 2007 (Host: Prof. Micheal Torkin)
40. **Tang JB, Mass DP.** *Report of Flexor tendon committee.* At The 10th Congress of International Federation of Societies for Surgery of the Hand, Sydney, Australia, March 10-15, 2007 (Host: Prof. Micheal Torkin)

41. **Tang JB.** *Invited Lecture:* How do I repair flexor tendons? At The Pan-Pacific Meeting of Hand and Upper Extremity Trauma, Queenstown, New Zealand, April 7-9, 2007 (Host: Prof. Peter Amadio)
42. Xie RG, Gu JH, **Tang JB.** *Invited Lecture:* Medial sural artery perforator flaps for reconstruction of soft tissue defects in the hand. The 2nd International Symposium of Hand Surgery, Teagu, Korea, December 10-12, 2006 (Host: Prof. Poong-Teak Kim)
43. **Tang JB.** Tendon nutrition, repair techniques and clinical outcomes. Instructional Course Lecture at The 2nd International Symposium of Hand Surgery, Teagu, Korea, December 10-12, 2006 (Host: Prof. Poong-Teak Kim)
44. **Tang JB.** Flexor tendon nutrition, healing, and adhesion formation. Instructional Course Lecture at the Instructional Course of Hand Surgery, Series 3. Manchester, UK, Feb 2-6, 2006. (Host: Prof. Joe Dias)
45. **Tang JB.** Suture techniques. Instructional Course Lecture at the Instructional Course of Hand Surgery, Series 3. Manchester, UK, Feb 2-6, 2006. (Host: Prof. Joe Dias)
46. **Tang JB.** Outcomes of flexor tendon repairs. Instructional Course Lecture at the Instructional Course of Hand Surgery, Series 3. Manchester, UK, Feb 2-6, 2006. (Host: Prof. Joe Dias)
47. **Tang JB.** Anatomy and biomechanics of extensor tendon system. Instructional Course Lecture at the Instructional Course of Hand Surgery, Series 3. Manchester, UK, Feb 2-6, 2006. (Host: Prof. Joe Dias)
48. **Tang JB.** Boutounniere injury (zone III extensor tendon injury). Instructional Course Lecture at the Instructional Course of Hand Surgery, Series 3. Manchester, UK, Feb 2-6, 2006. (Host: Prof. Joe Dias)
49. **Tang JB.** Wrist biomechanics. Instructional Course Lecture. The 9th International Federation of Societies for Surgery of the Hand, Budapest, Hungary, June 2004 (Host: Prof. Zsolt Szabo)
50. Elliot D, Amadio P, An KN, Ejeskar A, Guimberteau JC, Harris S, Savage R, Pettengill KS, **Tang JB.** IFSSH Flexor Tendon Committee report. Presented to The 9th International Federation of Societies for Surgery of the Hand, Budapest, Hungary, June 2004 (Host: Prof. Zsolt Szabo)
51. **Tang JB,** Shi D, Gu YQ. *Invited Lecture:* Flexor sheath closure during delayed primary stage. At The Asian-Pacific Educational Course, Hong Kong, May 1994 (Host: Prof. LK Hung)

National

52. **Tang JB.** *Pres-Course lecture* Wide-awake primary flexor tendon repair. The Annual Meeting of the American Association for Surgery of the Hand. Hawaii, HI, USA. January 10, 2017 (Organizer: Prof. Don Lalonde).

53. **Tang JB.** *Pres-Course lecture* Wide-awake course, Metacarpal fracture. The Annual Meeting of the American Association for Surgery of the Hand. Hawaii, HI, USA. January 10, 2017 (Organizer: Prof. Don Lalonde).
54. **Tang JB.** *Pres-Course lecture* Wide-awake course: Cubital tunnel release. The Annual Meeting of the American Association for Surgery of the Hand. Hawaii, HI, USA. January 10, 2017 (Organizer: Prof. Don Lalonde).
55. **Tang JB.** *Pres-Course lecture* Wide-awake course: How wide-awake surgery change the departmental settings. The Annual Meeting of the American Association for Surgery of the Hand. Hawaii, HI, USA. January 10, 2017 (Organizer: Prof. Don Lalonde).
56. **Tang JB.** *Symposium lecture* Cubital tunnel release. The Congress of the International Federation of Societies for Surgery of the Hand. BA, Argentina, October 24-27, 2016 (Organizer: Jin Bo Tang).
57. **Tang JB.** *Symposium lecture* How wide-awake surgery change the departmental settings. The Congress of the International Federation of Societies for Surgery of the Hand. BA, Argentina, October 24-27, 2016 (Organizer: Jin Bo Tang).
58. **Tang JB.** *Symposium lecture* Techniques in flexor tendon repair. The Congress of the International Federation of Societies for Surgery of the Hand. BA, Argentina, October 24-27, 2016 (Organizer: Peter Amadio).
59. **Tang JB.** *Symposium lecture* Stem cell application to tendon, nerve, and bone repair. The Congress of the International Federation of Societies for Surgery of the Hand. BA, Argentina, October 24-27, 2016 (Organizer: Amy Ledd).
60. **Tang JB.** *Symposium lecture* Wide-awake primary flexor tendon repair. The 70th Annual Meeting of the American Society for Surgery of the Hand. Seattle, WA, USA. September 10-12, 2015 (Organizer: Prof. Don Lalonde).
61. **Tang JB.** *Symposium lecture* Wide-awake primary flexor tendon repair. The 70th Annual Meeting of the American Society for Surgery of the Hand. Seattle, WA, USA. September 10-12, 2015 (Organizer: Prof. Don Lalonde).
62. **Tang JB.** *Symposium lecture* Wide-awake primary flexor tendon repair. The 70th Annual Meeting of the American Society for Surgery of the Hand. Seattle, WA, USA. September 10-12, 2015 (Organizer: Prof. Don Lalonde).
63. **Tang JB.** *Symposium lecture* Wide-awake primary flexor tendon repair. The 70th Annual Meeting of the American Society for Surgery of the Hand. Seattle, WA, USA. September 10-12, 2015 (Organizer: Prof. Don Lalonde).
64. **Tang JB.** *Symposium lecture* Zone I flexor tendon repair. The 70th Annual Meeting of the American Society for Surgery of the Hand. Seattle, WA, USA. September 10-12, 2015 (Organizer: Prof. James Chang).
65. **Tang JB.** Zone II tendon repair around the world: different strokes for different folks - Asia. Penal speaker, The 16th Annual Hand Surgery Symposium: 5 Decades of

- Evolution in Tendon and Nerve Surgery, Philadelphia, PA, March 22-24, 2014
(Organizer: Dr Lee Osterman)
66. **Tang JB.** Tendon healing, edema and gliding resistance: clinical implications
Lecture, The 16th Annual Hand Surgery Symposium: 5 Decades of Evolution in Tendon and Nerve Surgery, Philadelphia, PA, March 22-24, 2014 (Organizer: Dr Lee Osterman)
 67. **Tang JB.** Tendon healing biology and surgical methods. Instructional Course Lecture, The Annual Meeting of American Association for Surgery of the Hand, Kauai, Hawaii, Jan 9, 2014 (Organizer: Prof. Peter Amadio)
 68. **Tang JB.** Flexor tendon repair: Details of surgical methods and early active motion. Invited Guest Lecture, The Annual Meeting of American Association for Surgery of the Hand, Kauai, Hawaii, Jan 8, 2014 (Organizer: Prof. Don Lalonde)
 69. **Tang JB.** Flexor tendon repair: Details of surgical methods and early active motion. Instructional Course Lecture, The Annual Meeting of American Association for Surgery of the Hand, Kauai, Hawaii, Jan 9, 2014 (Organizer: Prof. Peter Amadio)
 70. **Tang JB.** Flexor tendon repair-MOC course. Instructional Course Lecture, The 66rd Annual Meeting of American Society for Surgery of the Hand, San Francisco, CA, September 8, 2011 (Organizer: Prof. Don Lalonde)
 71. **Tang JB.** Treatment of the flexor pulleys. Symposium lecture, The 66rd Annual Meeting of American Society for Surgery of the Hand, San Francisco, CA, September 8, 2011 (Organizer: Dr. Steve K. Lee)
 72. **Tang JB.** Flexor tendon healing and biomechanics of tendon repairs. Instructional Course Lecture, The 63rd Annual Meeting of American Society for Surgery of the Hand, San Francisco, CA, September 4, 2009 (Organizer: Prof. Daniel Mass)
 73. **Tang JB.** Gene therapy in flexor tendon repair. Grand Round Lecture at Department of Surgery, The University of Chicago, Chicago, IL, September 15, 2008. (Host: Prof. Daniel Mass)
 74. **Tang JB.** Gene therapy in flexor tendon repair. Visiting Professor Lecture at Department of Orthopedic Surgery, Brown University, Providence, RI, Feb 13, 2008.
 75. **Tang JB.** Repair of digital flexor tendon injuries-my surgical repair, rehabilitation and functional evaluation methods. Invited Lecture at The Wuxi Hand Surgery Hospital, Wuxi, Jiangsu, China, January 20, 2008.
 76. **Tang JB.** Flexor tendon repair. Grand Round Lecture, at Department of Surgery, The University of Chicago Hospitals, Chicago, IL, USA, October 13, 2006 (Host: Prof. Daniel Mass)
 77. **Tang JB.** Methods of primary repair of the digital flexor tendons. Grand Round Lecture at School of Medicine, Jilin University, Changchun, Jilin, China, August 18, 2008 (Host: Prof. Sushen Cui)

78. **Tang JB.** Clinical outcomes of flexor tendon repair. *Invited Lecture to the First Asian Summit Meeting of Orthopedic Trauma.* Guangzhou, China, November 11, 2005 (Host: Prof. Gu-xing Pei)
79. **Tang JB.** Flexor tendon repair-basic research and clinical application. *Invited Lecture at Department of Orthopedics, Mayo Clinic, USA,* November 26, 2004 (Prof. Peter Amadio)
80. **Tang JB.** Signal pathways and nuclear transcription factors in tendon, cartilage and flaps. *Invited Lecture at Orthopedic Research Section, Mayo Clinic, USA,* November 25, 2004 (Prof. Peter Amadio)
81. **Tang JB.** Signal transduction in tissue repairs. *Grand Round Lecture at Department of Orthopedics, West Virginia University, Morgantown, WV, USA,* October 27, 2003
82. **Tang JB.** Functional anatomy of A2 pulley and effects of incision of A2 pulley on tendon function. *Grand Round Lecture at Department of Orthopedics, West Virginia University, Morgantown, WV, USA,* October 27, 2003
83. **Tang JB.** Biology of flexor tendon healing. *Invited Lecture at International Workshop on the Flexor Tendon and Wrist Surgery, Hong Kong,* August 2001
84. **Tang JB.** Treatment of scaphoid nonunion. *Invited Lecture at International Workshop on the Flexor Tendon and Wrist Surgery, Hong Kong,* August 2001
85. **Tang JB.** Diagnosis of TFCC injury. *Invited Lecture at International Workshop on the Flexor Tendon and Wrist Surgery, Hong Kong,* August 2001
86. **Tang JB.** Subdivision of flexor tendon system and sheath reconstruction. *Visiting Professor Lecture, Broomfield Hospital, Chelmsford, Essex, UK,* June 1999
87. **Tang JB.** Subdivisions of flexor tendon zone 2 and management of tendon injuries. *Grand Round Lecture at the Department of Orthopedic Surgery, Kyungpook National University, Teagu, Korea,* September 1994
88. **Tang JB.** Tendon suture methods: biomechanical evaluation and clinical application. *Guest Lecture at the Department of Orthopedic Surgery, Kyungpook National University, Teagu, Korea,* September 1994

ABSTRACTS

(abstracts in languages other than English were not included)

89. Zhou YL, Yang QQ, Zhang LZ, Xing SG, **Tang JB.** The effectiveness of engineered miRNAs targeting cyclooxygenases on reducing adhesions and improving strengths of healing flexor tendons. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
90. Yang QQ, Xing SG, Zhou YL, **Tang JB.** Tendon healing strengths after repair with three different configurations in a chicken model. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.

91. Zhou YL, Yang QQ, Zhang LZ, Xing SG, **Tang JB**. Nanoparticles-coated sutures to provide sustained delivery of growth factors significantly increased tendon healing strengths at multiple time-points. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
92. Yang QQ, Xing SG, Zhou YL, **Tang JB**. Comparison of healing strengths of flexor tendons repaired with two multi-strand configurations in a chicken model. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
93. Xing SG, Mao T, **Tang JB**. Extending application of wide-awake surgery: flap harvest and transfer in the hand in 39 patients. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
94. Xing SG, Mao T, **Tang JB**. Efficiency, setup, impact and distribution of the procedures in a wide-awake surgical theater built within the department ward: a review of surgical procedures in a year period. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
95. Xing SG, Mao T, **Tang JB**. In vivo length changes of scapholunate interosseous ligament during wrist flexion-extension. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
96. Xing SG, Mao T, **Tang JB**. Ulnar nerve decompression or transposition under wide-awake local anesthesia without tourniquet management of cubital tunnel syndrome. The Congress of International Federation of Societies for Surgery of the Hand, Berlin, Germany, June 17-21, 2019.
97. Zhou YL, Zhang LZ, Wang XT, Liu PY, **Tang JB**. Micro-RNA plasmid delivered through nanoparticles modulate healing flexor tendons: an in vitro and in vivo study. The Congress of International Federation of Societies for Surgery of the Hand, BA, Argentina, October 24-28, 2016.
98. Zhou YL, Zhang LZ, Wu YF, Wang XT, Liu PY, **Tang JB**. Delivery of Micro-RNA loaded plasmid through nanoparticles efficiently modulate transforming growth factor-beta1 expression in healing flexor tendons: an in vitro and in vivo study. ASGCT 18th Annual Meeting, New Orleans, LA, USA, May 13-16, 2015.
99. Zhou YL, Zhang LZ, Wu YF, Wang XT, Liu PY, **Tang JB**. Engineered micro-RNA loaded plasmid-nanospheres efficiently modulate transforming growth factor-beta1 expression in healing intrasynovial tendons: an in vitro and in vivo study. 27th Annual Meeting of the Wound Healing Society. San Antonio, Texas, USA, April 29-May 3, 2015
100. Wang XT, Wu YF, Zhou YL, **Tang JB**, Liu PY. Delivery of bFGF or VEGF gene to healing tendon activates multiple genes critical to tendon growth and regeneration: an in

- vivo study. 27th Annual Meeting of the Wound Healing Society. San Antonio, Texas, USA, April 29-May 3, 2015
101. Zhou YL, Zhang LZ, Wu YF, Wang XT, Liu PY, **Tang JB**. Nanoparticles loaded with engineered microRNA-based RNAi plasmid delivered to the tendons prevents adhesion formations after tendon repair. ASGCT 17th Annual Meeting, in Washington, DC, USA, May 21-24, 2014.
 102. Zhou YL, Wu YF, Wang XT, Liu PY, **Tang JB**. Engineered microRNA-Based RNAi plasmid delivered through nanoparticles to intrasynovial tendons: effective modulation of gene expression and tissue reactions. ASGCT 17th Annual Meeting, May 21-24, 2014 in Washington , DC , USA
 103. Zhou YL, Wu YF, Wang XT, Liu PY, **Tang JB**. Nanoparticles-engineered TGF- β 1 miRNA plasmid complexes delivered to the tendons prevents adhesion formations after tendon repair. Annual Meeting of the Wound Healing Society, Orlando, FL, April 23, 2014
 104. Wu YF, Zhou YL, Wang XT, Liu PY, **Tang JB**. Effective and sustained delivery of exogenous genes to intrasynovial tendons through nanoparticles and minimal tendon reactions to nanoparticle/plasmid complexes: In vitro and in vivo studies. Annual Meeting of the Wound Healing Society, Orlando, FL, April 23, 2014
 105. Wu YF, Chen CH, Cao Y, Zhou YL, Wang XT, Liu PY, **Tang JB**. Changes in tenocyte proliferation and tenocyte apoptosis in the tendons treated with AAV2-bFGF in the early healing period. The 21st Annual Meeting of Wound Healing Society, Dallas, Texas, April 19, 2011.
 106. Chen CH, Zhou YL, Wu YF, Wang XT, Liu PY, **Tang JB**. Changes of gene expression profiles relevant to tenocyte apoptosis after *in vitro* wounding: a study using a novel array technique. The 21st Annual Meeting of Wound Healing Society, Dallas, Texas, April 19, 2011.
 107. Xie GR, Mao T, **Tang JB**. Wrist arthroscopic examination through a combined volar and dorsal approach. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
 108. Tan J, **Tang JB**. Functional outcomes after internal fixation of displaced phalangeal fractures. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
 109. Xie RG, Gu JH, Mao T, **Tang JB**. Outcomes of treatment of soft tissue defects of the hand by flap transfers: a comparative clinical study. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010

110. Tan J, **Tang JB**. Zone V flexor tendon repairs. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
111. Deng AD, Gu JH, **Tang JB**. Clinical analysis of influencing factors of volar locking plate for fixation of the distal radius fracture. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
112. Wu YF, Chen CH, Cao Y, Zhou YL, **Tang JB**. Comparison of efficiency of gene delivery methods and time-course of transgene expression in injured tendons caused by different vectors in early tendon healing period: An *in vivo* study Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
113. Wu YF, **Tang JB**. Biomechanical Comparisons of 4-strand tendon repairs with double-stranded sutures: effects of different locks and suture geometry. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
114. Chen CH, Wu YF, **Tang JB**. Differential gene expression in the healing period of tendon cells: a pcr array analysis in vitro. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
115. Wu YF, **Tang JB**. Relative contribution of tissue edema and the presence of the a2 pulley to resistance to flexor tendon movement: an in vitro and in vivo study. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
116. Wu YF, Cao Y, Chen CH, Zhou YL, **Tang JB**. Changes in tenocyte proliferation and tenocyte apoptosis in the tendons treated with AAV2-bFGF in the early healing period. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
117. Cao Y, Wu YF, Chen CH, Xie RG, **Tang JB**. Gene expression of tendon extracellular matrix components critical to strength in the healing process: Corresponding strength changes and implications. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
118. Cao Y, Chen CH, Wu YF, **Tang JB**. Molecular changes in genes regulating matrix metabolism of the flexor tendons and correlated changes of work of digital flexion: an investigation from early to late healing periods. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010

119. Cao Y, Wu YF, **Tang JB**. Contribution of volar subcutaneous tissue and tightness of extensors to resistance to digital motion after flexor tendon repairs: an *in vivo* study in a chicken model. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
120. Cao Y, Wu YF, Chen CH, Wang XT, Liu PY, **Tang JB**. Comparison of efficiency of AAV2-VEGF and AAV2-bFGF gene therapy in enhancement of healing strength of injured tendons: An *in vivo* biomechanical and molecular study. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
121. Xu J, Xie RG, Den AD, Tan J, **Tang JB**. *In vivo* length and the changes of ligaments stabilizing the thumb carpometacarpal (CMC) joint. Presented to the 11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Seoul, Korea, November, 2010
122. **Tang JB**. Outcomes after partial pulley release during primary flexor tendon repair. Presented to the Pre-11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Nantong, Jiangsu, October, 2010
123. **Tang JB**. Use of 3-D image reconstruction methods in studying wrist biomechanics. Presented to the Pre-11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Nantong, Jiangsu, October, 2010
124. **Tang JB**. Investigations of tendon repair biomechanics. Presented to the Pre-11th Congress of International Federation of Societies for Surgery of the Hand (IFSSH), Nantong, Jiangsu, October, 2010
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130. Wu YF, Chen CH, Zhou YL, Cao Y, Wang XT, Liu PY, Tang JB. An investigation of efficiency of AAV2-VEGF and AAV2-bFGF gene delivery to enhance strength of injured tendons: an *in vivo* study. The 89th Congress of American Association for Plastic Surgeons (AAPS), Taxes, March 17, 2010
131. Wang XT, Avanesian B, Chen CH, Wu YF, **Tang JB**, Liu PY. Comparison of efficacy of prefabrication of the ischemic flaps with AAV2-mediated VEGF and bFGF gene therapy. Rhode Island Research Symposium, Providence, RI, August, 2009.
132. Wang XT, Bella Avanesian B, **Tang JB**, Liu PY. The role of ginsenoside rg1 in augmenting survival of the ischemic skin flap: *in vitro* studies of cell proliferation and tube formation and *in vivo* effects. Rhode Island Research Symposium, Providence, RI, August, 2009.
133. Chen CH, Wu YF, Avanesian B, Wang XT, Liu PY, **Tang JB**. An investigation of efficiency of gene delivery methods and time-course of transgene expression in injured tendons and tissue reactions caused by different vectors. Presented at the 12th Annual Meeting of American Society of Gene Therapy, San Diego, CA, May 27-30, 2009
134. **Tang JB**, Cao Y, Chen CH, Wu YF, Wang XT, Liu PY. Transgene expression over a prolonged observation period after bFGF gene therapy to promote healing of injured flexor tendons. Presented at the 12th Annual Meeting of American Society of Gene Therapy, San Diego, CA, May 27-30, 2009
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137. **Tang JB**, Wu YF, Chen CH, Avanesian B, Wang XT, Liu PY. Molecular events of cellular apoptosis and proliferation in the early tendon healing period. Presented at the 19th Meeting of Wound Healing Society, Dallas, TX, April 25-29, 2009
138. Wang XT, Avanesian B, Wang XT, Chen CH, Wu YF, **Tang JB**, Liu PY. Comparison of efficacy of prefabrication of the ischemic flaps with AAV2-mediated

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139. Chen CH, Wu YF, Cao Y, Avanesian B, Wang XT, Liu PY, Tang JB. An investigation of efficiency of gene delivery methods and time-course of transgene expression in injured tendons and tissue reactions caused by different vectors. Presented at the 19th Meeting of Wound Healing Society, Dallas, TX, April 25-29, 2009
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142. **Tang JB.** Basic and clinical studies of flexor tendon repair: An overview of my past work. Presented at Association of Orthopedic Surgery Seminar, Chongqing, China, October 19, 2008.
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144. Chen CH, Wu YF, Cao Y, Gao JS, Wang XT, **Tang JB.** Quantitative analysis of gene expression and immunohistochemical staining of growth factors at different stages of tendon healing. Presented at The 94th Clinical Congress of American College of Surgeons. San Francisco, CA, October 12-16, 2008
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146. Xu J, **Tang JB.** *In vivo* changes of lengths of the ligaments stabilizing the distal radioulnar joint. Presented at The 63rd Annual Meeting of American Society for Surgery of the Hand, Chicago, IL, September 16-18, 2008
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148. Cao Y, Chen CH, Wu YF, **Tang JB**. Gene expression and production of growth factors in the early tendon healing period: Implication of molecular therapy. Presented to The 63rd Annual Meeting of American Society for Surgery of the Hand, San Diego, CA, April 24-27, 2008.
149. Cao Y, Zhu B, Xin KQ, Wang XT, Liu P, **Tang JB**. bFGF gene transfer by adeno-associated viral 2 vectors decreases work of active digital flexion and adhesion formation. An *in vivo* study up to end tendon healing stage. Presented at The 11th Annual Meeting of American Society of Gene Therapy, Boston, MA, May 27-June 1, 2008
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155. Cao Y, **Tang JB**. Remarkable decreases in the strength of repaired tendons gliding over A2 pulley: A biomechanical study in a chicken model. Presented at The 7th Congress of Asian Pacific Societies for Surgery of the Hand, Hong Kong, Feb 14-17, 2008.
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