

8 BIBLIOGRAPHIE

- Abe S, Kurosaka M, Iguchi T, Yoshiya S, Hirohata K (1993): Light and electron microscopic study of remodeling and maturation process in autogenous graft for anterior cruciate ligament reconstruction. *Arthroscopy* 9(4):394-405.
- Adachi E, Hayashi T (1986): In vitro formation of hybrid fibrils of type V collagen and type I collagen. Limited growth of type I collagen into thick fibrils by type V collagen. *Connect Tissue Res* 14(4):257-66.
- Aglietti P, Buzzi R, Zaccherotti G, De Biase P (1994): Patellar tendon versus doubled semitendinosus and gracilis tendons for anterior cruciate ligament reconstruction. *Am J Sports Med* 22(2):211-7; discussion 217-8.
- Allen MJ, Houlton JE, Adams SB, Rushton N (1998): The surgical anatomy of the stifle joint in sheep. *Vet Surg* 27(6):596-605.
- Amiel D, Frank C, Harwood F, Fronck J, Akeson W (1984): Tendons and ligaments: a morphological and biochemical comparison. *J Orthop Res* 1(3):257-65.
- Amiel D, Kleiner JB, Akeson WH (1986a): The natural history of the anterior cruciate ligament autograft of patellar tendon origin. *Am J Sports Med* 14(6):449-62.
- Amiel D, Kleiner JB, Roux RD, Harwood FL, Akeson WH (1986b): The phenomenon of "ligamentization": anterior cruciate ligament reconstruction with autogenous patellar tendon. *J Orthop Res* 4(2):162-72.
- Amiel D, Nimni ME (1993): The collagen in normal ligaments. *Iowa Orthop J* 13(49-55).
- Amiel D, Nagineni CN, Choi SH, Lee J (1995): Intrinsic properties of ACL and MCL cells and their responses to growth factors. *Med Sci Sports Exerc* 27(6):844-51.
- Amis AA, Camburn M, Kempson SA, Radford WJ, Stead AC (1992): Anterior cruciate ligament replacement with polyester fibre. A long-term study of tissue reactions and joint stability in sheep. *J Bone Joint Surg Br.* 74(4):605-13.
- Amis AA, Jakob RP (1998): Anterior cruciate ligament graft positioning, tensioning and twisting. *Knee Surg Sports Traumatol Arthrosc* 6(Suppl 1):S2-12.

- Andersson C, Odensten M, Gillquist J (1991): Knee function after surgical or nonsurgical treatment of acute rupture of the anterior cruciate ligament: a randomized study with a long-term follow-up period. *Clin Orthop* 264):255-63.
- Arnoczky SP (1983): Anatomy of the anterior cruciate ligament. *Clin Orthop* 172):19-25.
- Aune AK, Hukkanen M, Madsen JE, Polak JM, Nordsletten L (1996): Nerve regeneration during patellar tendon autograft remodelling after anterior cruciate ligament reconstruction: an experimental and clinical study. *J Orthop Res* 14(2):193-9.
- Aune AK, Holm I, Risberg MA, Jensen HK, Steen H (2001): Four-strand hamstring tendon autograft compared with patellar tendon-bone autograft for anterior cruciate ligament reconstruction. *Am J Sports Med* 29(6):722-728.
- Baek GH, Carlin GJ, Vogrin TM, Woo SL, Harner CD (1998): Quantitative analysis of collagen fibrils of human cruciate and meniscomfemoral ligaments. *Clin Orthop* 357):205-11.
- Batten ML, Hansen JC, Dahners LE (1996): Influence of dosage and timing of application of platelet-derived growth factor on early healing of the rat medial collateral ligament. *J Orthop Res* 14(5):736-41.
- Blickenstaff KR, Grana WA, Egle D (1997): Analysis of a semitendinosus autograft in a rabbit model. *Am J Sports Med* 25(4):554-9.
- Bosch U, Decker B, Kasperczyk W, Oestern HJ, Tscherne H (1989): Biological aspects of long-term failure of autografts after cruciate ligament replacement. *Arch Orthop Trauma Surg* 108(6):368-72.
- Bosch U, Decker B, Kasperczyk W, Nerlich A, Oestern HJ, Tscherne H (1992): The relationship of mechanical properties to morphology in patellar tendon autografts after posterior cruciate ligament replacement in sheep. *J Biomech* 25(8):821-30.
- Bosch U, Kasperczyk WJ (1992): Healing of the patellar tendon autograft after posterior cruciate ligament reconstruction - a process of ligamentization? An experimental study in a sheep model. *Am J Sports Med* 20(5):558-66.
- Bosch U, Kasperczyk WJ (1993): [The healing process after cruciate ligament repair in the sheep model]. *Orthopäde* 22(6):366-71.
- Bosch U, Decker B, Moller HD, Kasperczyk WJ, Oestern HJ (1995): Collagen fibril organization in the patellar tendon autograft after posterior cruciate

- ligament reconstruction. A quantitative evaluation in a sheep model. *Am J Sports Med* 23(2):196-202.
- Bradley JP, Klimkiewicz JJ, Rytel MJ, Powell JW (2002): Anterior cruciate ligament injuries in the National Football League: epidemiology and current treatment trends among team physicians. *Arthroscopy* 18(5):502-9.
- Brand J, Weiler A, Caborn DN, Brown CH, Johnson DL (2000): Graft fixation in cruciate ligament reconstruction. *Am J Sports Med* 28(5):761-74.
- Breitfuss H, Frohlich R, Povacz P, Resch H, Wicker A (1996): The tendon defect after anterior cruciate ligament reconstruction using the midthird patellar tendon--a problem for the patellofemoral joint? *Knee Surg Sports Traumatol Arthrosc* 3(4):194-8.
- Brown CH, Jr., Steiner ME, Carson EW (1993): The use of hamstring tendons for anterior cruciate ligament reconstruction. Technique and results. *Clin Sports Med* 12(4):723-56.
- Bush-Joseph CA, Cummings JF, Buseck M, Bylski-Austrow DI, Butler DL, Noyes FR, Grood ES (1996): Effect of tibial attachment location on the healing of the anterior cruciate ligament freeze model. *J Orthop Res* 14(4):534-41.
- Butler DL, Kay MD, Stouffer DC (1986): Comparison of material properties in fascicle-bone units from human patellar tendon and knee ligaments. *J Biomech* 19(6):425-32.
- Casteleyn PP (1999): Management of anterior cruciate ligament lesions: surgical fashion, personal whim or scientific evidence? Study of medium- and long-term results. *Acta Orthop Belg* 65(3):327-39.
- Clancy WG, Jr., Narechania RG, Rosenberg TD, Gmeiner JG, Wisnefske DD, Lange TA (1981): Anterior and posterior cruciate ligament reconstruction in rhesus monkeys. *J Bone Joint Surg Am.* 63(8):1270-84.
- Clancy WG, Jr., Ray JM, Zoltan DJ (1988): Acute tears of the anterior cruciate ligament. Surgical versus conservative treatment. *J Bone Joint Surg Am* 70(10):1483-8.
- Clark JM, Sidles JA (1990): The interrelation of fiber bundles in the anterior cruciate ligament. *J Orthop Res* 8(2):180-8.
- Cochran DL, Rouse CA, Lynch SE, Graves DT (1993): Effects of platelet-derived growth factor isoforms on calcium release from neonatal mouse calvariae. *Bone* 14(1):53-8.

- Daniel DM, Akeson WH, J. OCJ (1990): Knee Ligaments - Structure, Function, Injury and Repair. 1 ed. New York: Raven Press.
- Danylchuk KD, Finlay JB, Krcek JP (1978): Microstructural organization of human and bovine cruciate ligaments. *Clin Orthop* 131):294-8.
- Decker B, Bosch U, Kasperczyk W, Oestern HJ, Reale E (1991): Ultrastructural changes of the patellar tendon as a cruciate ligament substitute (one year and two year results). *J Submicrosc Cytol Pathol* 23(1):9-21.
- Decker B, Bosch U, Gassler N, Tugtekin I, Kasperczyk W, Reale E (1994): Histochemical aspects of the proteoglycans of patellar tendon autografts used to replace the posterior cruciate ligament. *Matrix Biol* 14(1):101-11.
- DesRosiers EA, Yahia L, Rivard CH (1996): Proliferative and matrix synthesis response of canine anterior cruciate ligament fibroblasts submitted to combined growth factors. *J Orthop Res* 14(2):200-8.
- Dye SF (1987): An evolutionary perspective of the knee. *J Bone Joint Surg Am.* 69(7):976-83.
- Falconiero RP, DiStefano VJ, Cook TM (1998): Revascularization and ligamentization of autogenous anterior cruciate ligament grafts in humans. *Arthroscopy* 14(2):197-205.
- Fink C, Hoser C, Hackl W, Navarro RA, Benedetto KP (2001): Long-term outcome of operative or nonoperative treatment of anterior cruciate ligament rupture--is sports activity a determining variable? *Int J Sports Med* 22(4):304-9.
- Fleischmajer R, Perlsh JS, Burgeson RE, Shaikh-Bahai F, Timpl R (1990): Type I and type III collagen interactions during fibrillogenesis. *Ann N Y Acad Sci* 580(161-75).
- Frank C, Bray D, Rademaker A, Chrusch C, Sabiston P, Bodie D, Rangayyan R (1989): Electron microscopic quantification of collagen fibril diameters in the rabbit medial collateral ligament: a baseline for comparison. *Connect Tissue Res* 19(1):11-25.
- Galway RD, Beaupre A, MacIntosh DL (1972): "Pivot shift": A clinical sign of symptomatic anterior cruciate deficiency. *J Bone Joint Surg* 54B(763-764).
- Gässler N, Tugtekin I, Decker B, Bosch U, Delbruck A (1994): Changes in the extracellular matrix of the autogenous patellar tendon graft after posterior

- cruciate ligament reconstruction: a biochemical study in sheep. *Matrix Biol* 14(1):87-99.
- Giannobile WV (1996): Periodontal tissue engineering by growth factors. *Bone* 19(1 Suppl):23-37.
- Gillquist J, Messner K (1999): Anterior cruciate ligament reconstruction and the long-term incidence of gonarthrosis. *Sports Med* 27(3):143-56.
- Girgis FG, Marshall JL, Monajem A (1975): The cruciate ligaments of the knee joint. Anatomical, functional and experimental analysis. *Clin Orthop* 106:216-31.
- Goertzen M, Dellmann A, Gruber J, Clahsen H, Burring KF (1993): [Homologous cruciate ligament transplantation as intra-articular ligament replacement]. *Z Orthop Ihre Grenzgeb* 131(2):179-86.
- Goradia VK, Rochat MC, Grana WA, Egle DM (1998): Strength of ACL reconstructions using semitendinosus tendon grafts. *J Okla State Med Assoc* 91(5):275-7.
- Goradia VK, Rochat MC, Grana WA, Rohrer MD, Prasad HS (2000a): Tendon-to-bone healing of a semitendinosus tendon autograft used for ACL reconstruction in a sheep model. *Am J Knee Surg* 13(3):143-51.
- Goradia VK, Rochat MC, Kida M, Grana WA (2000b): Natural history of a hamstring tendon autograft used for anterior cruciate ligament reconstruction in a sheep model. *Am J Sports Med* 28(1):40-6.
- Grana WA, Egle DM, Mahnken R, Goodhart CW (1994): An analysis of autograft fixation after anterior cruciate ligament reconstruction in a rabbit model. *Am J Sports Med* 22(3):344-51.
- Grontvedt T, Engebretsen L, Benum P, Fasting O, Molster A, Strand T (1996): A prospective, randomized study of three operations for acute rupture of the anterior cruciate ligament. Five-year follow-up of one hundred and thirty-one patients. *J Bone Joint Surg Am* 78(2):159-68.
- Groves EWH (1917): Operation for the repair of crucial ligaments. *Lancet* 2:674-675.
- Halata Z, Wagner C, Baumann KI (1999): Sensory nerve endings in the anterior cruciate ligament (Lig. cruciatum anterius) of sheep. *Anat Rec* 254(1):13-21.

- Hart RA, Woo SL, Newton PO (1992): Ultrastructural morphometry of anterior cruciate and medial collateral ligaments: an experimental study in rabbits. *J Orthop Res* 10(1):96-103.
- Hauser EDW (1947): Extra-articular repair for collateral and cruciate ligaments. *Surg Gynecol Obstet* 84:339-345.
- Hawkins RJ, Misamore GW, Merritt TR (1986): Followup of the acute nonoperated isolated anterior cruciate ligament tear. *Am J Sports Med* 14(3):205-10.
- Hildebrand KA, Woo SL, Smith DW, Allen CR, Deie M, Taylor BJ, Schmidt CC (1998): The effects of platelet-derived growth factor-BB on healing of the rabbit medial collateral ligament. An in vivo study. *Am J Sports Med* 26(4):549-54.
- Höher J, Moller HD, Fu FH (1998): Bone tunnel enlargement after anterior cruciate ligament reconstruction: fact or fiction? *Knee Surg Sports Traumatol Arthrosc* 6(4):231-40.
- Holden JP, Grood ES, Butler DL, Noyes FR, Mendenhall HV, Van Kampen CL, Neidich RL (1988): Biomechanics of fascia lata ligament replacements: early postoperative changes in the goat. *J Orthop Res* 6(5):639-47.
- Hughston JC (1993): *Knee Ligaments - Injury and Repair*. 1 ed. St. Louis: Mosby.
- Jackson DW, Grood ES, Arnoczky SP, Butler DL, Simon TM (1987): Cruciate reconstruction using freeze dried anterior cruciate ligament allograft and a ligament augmentation device (LAD). An experimental study in a goat model. *Am J Sports Med* 15(6):528-38.
- Jackson DW, Grood ES, Cohn BT, Arnoczky SP, Simon TM, Cummings JF (1991): The effects of in situ freezing on the anterior cruciate ligament. An experimental study in goats. *J Bone Joint Surg Am* 73(2):201-13.
- Jackson DW, Simon TM, Lowery W, Gendler E (1996): Biologic remodeling after anterior cruciate ligament reconstruction using a collagen matrix derived from demineralized bone. An experimental study in the goat model. *Am J Sports Med* 24(4):405-14.
- Jones KG (1963): Reconstruction of the anterior cruciate ligament. A technique using the central one-third of the patellar ligament. *J Bone Joint Surg* 45A:925-932.
- Kanamori A, Zeminski J, Yagi M, Fu FH, Debski R, Woo S-Y (2000): Can ACL replacement grafts successfully limit the pivot shift of the knee? 46th Annual

- Meeting, Orthopaedic Research Society, March, 12-15, Orlando, Florida, U.S.A.
- Karrholm J, Elmqvist LG, Selvik G, Hansson LI (1989): Chronic anterolateral instability of the knee. A roentgen stereophotogrammetric evaluation. *Am J Sports Med* 17(4):555-63.
- Keene DR, Sakai LY, Bachinger HP, Burgeson RE (1987): Type III collagen can be present on banded collagen fibrils regardless of fibril diameter. *J Cell Biol* 105(5):2393-402.
- Kennedy JC, Weinberg HW, Wilson AS (1974): The anatomy and function of the anterior cruciate ligament. As determined by clinical and morphological studies. *J Bone Joint Surg Am* 56(2):223-35.
- Kennedy JC (1983): Application of prosthetics to anterior cruciate ligament reconstruction and repair. *Clin Orthop* 172:125-8.
- Kobayashi D, Kurosaka M, Yoshiya S, Mizuno K (1997): Effect of basic fibroblast growth factor on the healing of defects in the canine anterior cruciate ligament [see comments]. *Knee Surg Sports Traumatol Arthrosc* 5(3):189-94.
- Kohn D (1986): Arthroscopy in acute injuries of anterior cruciate-deficient knees: fresh and old intraarticular lesions. *Arthroscopy* 2(2):98-102.
- Kuroda R, Kurosaka M, Yoshiya S, Mizuno K (2000): Localization of growth factors in the reconstructed anterior cruciate ligament: immunohistological study in dogs. *Knee Surg Sports Traumatol Arthrosc* 8(2):120-6.
- Labs K, Perka C, Schneider F (2002): The biological and biomechanical effect of different graft tensioning in anterior cruciate ligament reconstruction: an experimental study. *Arch Orthop Trauma Surg* 122(4):193-9.
- Lapiere CM, Nussgens B, Pierard GE (1977): Interaction between collagen type I and type III in conditioning bundles organization. *Connect Tissue Res* 5(1):21-9.
- Larsen E, Jensen PK, Jensen PR (1999): Long-term outcome of knee and ankle injuries in elite football. *Scand J Med Sci Sports* 9(5):285-9.
- Larson RL, Taillon M (1994): Anterior Cruciate Ligament Insufficiency: Principles of Treatment. *J Am Acad Orthop Surg* 2(1):26-35.
- Letson AK, Dahners LE (1994): The effect of combinations of growth factors on ligament healing. *Clin Orthop* 308:207-12.

- L'Insalata JC, Klatt B, Fu FH, Harner CD (1997): Tunnel expansion following anterior cruciate ligament reconstruction: a comparison of hamstring and patellar tendon autografts. *Knee Surg Sports Traumatol Arthrosc* 5(4):234-8.
- Lobenhoffer P, Tscherne H (1993): [Rupture of the anterior cruciate ligament. Current status of treatment]. *Unfallchirurg* 96(3):150-68.
- Lynch SE, Nixon JC, Colvin RB, Antoniadis HN (1987): Role of platelet-derived growth factor in wound healing: synergistic effects with other growth factors. *Proc Natl Acad Sci U S A* 84(21):696-700.
- Macey HB (1939): A new operative procedure for repair of ruptured cruciate ligaments of the knee joint. *Surg Gynecol Obstet* 69:108-109.
- Magnusson SP, Qvortrup K, Larsen JO, Rosager S, Hanson P, Aagaard P, Krogsgaard M, Kjaer M (2002): Collagen fibril size and crimp morphology in ruptured and intact Achilles tendons. *Matrix Biol* 21(4):369-77.
- Markolf KL, Gorek JF, Kabo JM, Shapiro MS (1991): Direct measurement of resultant forces in the anterior cruciate ligament. An in vitro study performed with a new experimental technique. *Journal of Bone & Joint Surgery [Am]* 72(4):557-567.
- Marui T, Niyibizi C, Georgescu HI, Cao M, Kavalkovich KW, Levine RE, Woo SL (1997): Effect of growth factors on matrix synthesis by ligament fibroblasts. *J Orthop Res* 15(1):18-23.
- McDaniel WJ, Jr., Dameron TB, Jr. (1980): Untreated ruptures of the anterior cruciate ligament. A follow-up study. *J Bone Joint Surg Am.* 62(5):696-705.
- Micheli LJ, Metzl JD, Di Canzio J, Zurakowski D (1999): Anterior cruciate ligament reconstructive surgery in adolescent soccer and basketball players. *Clin J Sport Med* 9(3):138-41.
- Michna H (1984): Morphometric analysis of loading-induced changes in collagen-fibril populations in young tendons. *Cell Tissue Res* 236(2):465-70.
- Miyasaka KC, Daniel DM, Stone ML, Hirshman P (1991): The incidence of knee ligament injuries in the general population. *Am J Knee Surg* 4(1):3-8.
- Moeller HD, Bosch U, Decker B (1995): Collagen fibril diameter distribution in patellar tendon autografts after posterior cruciate ligament reconstruction in sheep: changes over time. *J Anat* 187(Pt 1):161-7.

- Nakamura N, Shino K, Natsuume T, Horibe S, Matsumoto N, Kaneda Y, Ochi T (1998): Early biological effect of in vivo gene transfer of platelet-derived growth factor (PDGF)-B into healing patellar ligament. *Gene Ther* 5(9):1165-70.
- Neurath M, Stofft E, Zschabitz A, Printz H (1991): [Comparative microstructural studies on collagen and elastic fiber systems of the cruciate ligaments]. *Z Unfallchir Versicherungsmed* 84(3):170-6.
- Neurath MF, Stofft E (1992a): Collagen ultrastructure in ruptured cruciate ligaments. An electron microscopic investigation. *Acta Orthop Scand* 63(5):507-10.
- Neurath MF, Stofft E (1992b): Structure and function of matrix components in the cruciate ligaments. An immunohistochemical, electron-microscopic, and immunoelectron- microscopic study. *Acta Anat (Basel)* 145(4):387-94.
- Ng GY, Oakes BW, Deacon OW, McLean ID, Lampard D (1995): Biomechanics of patellar tendon autograft for reconstruction of the anterior cruciate ligament in the goat: three-year study. *J Orthop Res* 13(4):602-8.
- Ng GY, Oakes BW, Deacon OW, McLean ID, Eyre DR (1996): Long-term study of the biochemistry and biomechanics of anterior cruciate ligament-patellar tendon autografts in goats. *J Orthop Res* 14(6):851-6.
- Norwood LA, Cross MJ (1979): Anterior cruciate ligament: functional anatomy of its bundles in rotatory instabilities. *Am J Sports Med* 7(1):23-6.
- O'Donoghue DH, Rockwod CA, Frank GR, Jack SC, Kenyon R (1966): Repair of the anterior cruciate ligament in dogs. *J Bone Joint Surg Am* 48 A(3):503-519.
- Palmer I (1938): On the injuries of the ligament of the knee joint. *Acta Chir Scand (Suppl.):*53.
- Parry DA, Barnes GR, Craig AS (1978): A comparison of the size distribution of collagen fibrils in connective tissues as a function of age and a possible relation between fibril size distribution and mechanical properties. *Proc R Soc Lond B Biol Sci* 203(1152):305-21.
- Parry DA (1988): The molecular and fibrillar structure of collagen and its relationship to the mechanical properties of connective tissue. *Biophys Chem* 29(1-2):195-209.
- Pierce GF, Vande Berg J, Rudolph R, Tarpley J, Mustoe TA (1991): Platelet-derived growth factor-BB and transforming growth factor beta 1 selectively

- modulate glycosaminoglycans, collagen, and myofibroblasts in excisional wounds. *Am J Pathol* 138(3):629-46.
- Radford WJP, Amis AA, Stead AC (1996): The ovine stifle as a model for human cruciate ligament surgery. *Vet Comp Orthop Traumatol* 9:134-139.
- Richardson KC (1960): Embedding in epoxy resins for ultrathin sectioning in electron microscopy. *Stain Technol* 35:313-325.
- Robson M (1903): Ruptured cruciate ligaments and their repair by operation. *Ann Surg* 37:716-718.
- Rosenberg TD, Deffner KT (1997): ACL reconstruction: semitendinosus tendon is the graft of choice. *Orthopedics* 20(5):396, 398.
- Roth JH, Mendenhall HV, McPherson GK (1988): The effect of immobilization on goat knees following reconstruction of the anterior cruciate ligament. *Clin Orthop* 229:278-82.
- Ruiz AL, Kelly M, Nutton RW (2002): Arthroscopic ACL reconstruction: a 5-9 year follow-up. *Knee* 9(3):197-200.
- Rydziel S, Shaikh S, Canalis E (1994): Platelet-derived growth factor-AA and -BB (PDGF-AA and -BB) enhance the synthesis of PDGF-AA in bone cell cultures. *Endocrinology* 134(6):2541-6.
- Sachs RA, Daniel DM, Stone ML, Garfein RF (1989): Patellofemoral problems after anterior cruciate ligament reconstruction. *Am J Sports Med* 17(6):760-5.
- Sakai H, Fukui N, Kawakami A, Kurosawa H (2000): Biological fixation of the graft within bone after anterior cruciate ligament reconstruction in rabbits: effects of the duration of postoperative immobilization. *J Orthop Sci* 5(1):43-51.
- Sakane M, Fox RJ, Woo SL, Livesay GA, Li G, Fu FH (1997): In situ forces in the anterior cruciate ligament and its bundles in response to anterior tibial loads. *J Orthop Res* 15(2):285-93.
- Scheffler SU, Südkamp NP, Gockenjan A, Hoffmann RF, Weiler A (2002): Biomechanical comparison of hamstring and patellar tendon graft anterior cruciate ligament reconstruction techniques: The impact of fixation level and fixation method under cyclic loading. *Arthroscopy* 18(3):304-15.
- Scherping SC, Jr., Schmidt CC, Georgescu HI, Kwoh CK, Evans CH, Woo SL (1997): Effect of growth factors on the proliferation of ligament fibroblasts from skeletally mature rabbits. *Connect Tissue Res* 36(1):1-8.

- Schiavone Panni A, Denti M, Franzese S, Monteleone M (1993): The bone-ligament junction: a comparison between biological and artificial ACL reconstruction. *Knee Surg Sports Traumatol Arthrosc* 1(1):9-12.
- Schliephake H (2002): Bone growth factors in maxillofacial skeletal reconstruction. *Int J Oral Maxillofac Surg* 31(5):469-84.
- Schmidmaier G, Wildemann B, Stemberger A, Haas NP, Raschke M (2001): Biodegradable poly(D,L-lactide) coating of implants for continuous release of growth factors. *J Biomed Mater Res* 58(4):449-55.
- Schmidt CC, Georgescu HI, Kwoh CK, Blomstrom GL, Engle CP, Larkin LA, Evans CH, Woo SL (1995): Effect of growth factors on the proliferation of fibroblasts from the medial collateral and anterior cruciate ligaments. *J Orthop Res* 13(2):184-90.
- Seitz H, Hausner T, Schlenz I, Lang S, Eschberger J (1997): Vascular anatomy of the ovine anterior cruciate ligament. A macroscopic, histological and radiographic study. *Arch Orthop Trauma Surg* 116(1-2):19-21.
- Shino K, Oakes BW, Horibe S, Nakata K, Nakamura N (1995): Collagen fibril populations in human anterior cruciate ligament allografts. Electron microscopic analysis. *Am J Sports Med* 23(2):203-8; discussion 209.
- Sommerlath K, Lysholm J, Gillquist J (1991): The long-term course after treatment of acute anterior cruciate ligament ruptures. A 9 to 16 year followup. *Am J Sports Med* 19(2):156-62.
- Takeda Y, Xerogeanes JW, Livesay GA, Fu FH, Woo SL (1994): Biomechanical function of the human anterior cruciate ligament. *Arthroscopy* 10(2):140-7.
- Tohyama H, Yasuda K (1998): Significance of graft tension in anterior cruciate ligament reconstruction. Basic background and clinical outcome. *Knee Surg Sports Traumatol Arthrosc* 6 Suppl 1:30-7.
- Torg JS, Conrad W, Kalen V (1976): Clinical diagnosis of anterior cruciate ligament instability in the athlete. *Am J Sports Med* 4(2):84-93.
- Trippel SB (1997): Growth factors as therapeutic agents. *Instr Course Lect* 46:473-6.
- Urabe Y, Ochi M, Onari K, Ikuta Y (2002): Anterior cruciate ligament injury in recreational alpine skiers: analysis of mechanisms and strategy for prevention. *J Orthop Sci* 7(1):1-5.

- Walsh JJ, Jr. (1972): Meniscal reconstruction of the anterior cruciate ligament. *Clin Orthop* 89:171-7.
- Weiler A, Hoffmann RF, Stahelin AC, Bail HJ, Siepe CJ, Sudkamp NP (1998): Hamstring tendon fixation using interference screws: a biomechanical study in calf tibial bone. *Arthroscopy* 14(1):29-37.
- Weiler A, Hoffmann RF, Sudkamp NP, Siepe CJ, Haas NP (1999): [Replacement of the anterior cruciate ligament. Biomechanical studies for patellar and semitendinosus tendon fixation with a poly(D,L-lactide) interference screw]. *Unfallchirurg* 102(2):115-23.
- Weiler A, Scheffler SU, Sudkamp NP (2000): [Current aspects of anchoring hamstring tendon transplants in cruciate ligament surgery]. *Chirurg* 71(9):1034-44.
- Weiler A, Förster C, Falk R, Schmidmaier G, Südkamp N (2001a): Locally applied Platelet-derived growth factor-BB ameliorates structural properties of a free tendon graft anterior cruciate ligament reconstruction. Proceedings of the 47th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, USA.
- Weiler A, Peters G, Mäurer J, Unterhauser FN, Südkamp NP (2001b): Biomechanical properties and vascularity of an anterior cruciate ligament graft can be predicted by contrast-enhanced magnetic resonance imaging. A two-year study in sheep. *Am J Sports Med* 29(6):751-61.
- Weiler A, Richter M, Schmidmaier G, Kandziora F, Südkamp N (2001c): The endopearl device increases fixation strength and eliminates construct slippage of hamstring tendon grafts with interference screw fixation. *Arthroscopy* 17(4):353-359.
- Weiler A, Hoffmann RF, Bail HJ, Rehm O, Sudkamp NP (2002a): Tendon healing in a bone tunnel. Part II: Histologic analysis after biodegradable interference fit fixation in a model of anterior cruciate ligament reconstruction in sheep. *Arthroscopy* 18(2):124-35.
- Weiler A, Peine R, Pashmineh-Azar A, Abel C, Sudkamp NP, Hoffmann RF (2002b): Tendon healing in a bone tunnel. Part I: Biomechanical results after biodegradable interference fit fixation in a model of anterior cruciate ligament reconstruction in sheep. *Arthroscopy* 18(2):113-23.

- Weiler A, Unterhauser FN, Bail H-J, Hüning M, Haas NP (2002c): alpha-Smooth muscle actin is expressed by fibroblastic cells of the ovine anterior cruciate ligament and its free tendon graft during remodeling. *J Orthop Res* 20(2):310-17.
- Weiler A, Unterhauser FN, Faensen B, Hunt P, Bail HJ, Haas NP (2002d): Comparison of tendon-to-bone healing using extracortical and anatomic interference fit fixation of soft tissue grafts in a sheep model of acl reconstruction. Proceedings of the 48th Annual Meeting of the Orthopaedic Research Society, Dallas, TX, USA.
- Weiler A, Förster C, Hunt P, Falk R, Jung T, Unterhauser FN, Bergmann V, Schmidmaier G, Haas NP (2003): The influence of locally applied platelet-derived growth factor-BB on free tendon graft remodeling after anterior cruciate ligament reconstruction - The use of a biodegradable drug delivery tool in a sheep model. *Am J Sports Med* (in press).
- Witvrouw E, Bellemans J, Verdonk R, Cambier D, Coorevits P, Almqvist F (2001): Patellar tendon vs. doubled semitendinosus and gracilis tendon for anterior cruciate ligament reconstruction. *Int Orthop* 25(5):308-11.
- Woo SL, Smith DW, Hildebrand KA, Zeminski JA, Johnson LA (1998a): Engineering the healing of the rabbit medial collateral ligament. *Med Biol Eng Comput* 36(3):359-64.
- Woo SL-Y, Suh J-K, Parsons IM, Wang J-H, Watanabe N (1998b): Biologic intervention in ligament healing. *Sports Medicine and Arthroscopy Review* 6:74- 82.
- Xerogeanes JW, Fox RJ, Takeda Y, Kim HS, Ishibashi Y, Carlin GJ, Woo SL (1998): A functional comparison of animal anterior cruciate ligament models to the human anterior cruciate ligament. *Ann Biomed Eng* 26(3):345-52.
- Yahia L, Brunet J, Labelle S, Rivard CH (1990): A scanning electron microscopic study of rabbit ligaments under strain. *Matrix* 10(1):58-64.
- Yamazaki S, Yasuda K, Tomita F, Minami A, Tohyama H (2002): The effect of graft-tunnel diameter disparity on intraosseous healing of the flexor tendon graft in anterior cruciate ligament reconstruction. *Am J Sports Med* 30(4):498-505.

- Yoshiya S, Nagano M, Kurosaka M, Muratsu H, Mizuno K (2000): Graft healing in the bone tunnel in anterior cruciate ligament reconstruction. *Clin Orthop* 376:278-86.
- Yunes M, Richmond JC, Engels EA, Pinczewski LA (2001): Patellar versus hamstring tendons in anterior cruciate ligament reconstruction: A meta-analysis. *Arthroscopy* 17(3):248-257.
- Zimmerman MC, Contiliano JH, Parsons JR, Prewett A, Billotti J (1994): The biomechanics and histopathology of chemically processed patellar tendon allografts for anterior cruciate ligament replacement. *Am J Sports Med* 22(3):378-86.
- Zoltan DJ, Reinecke C, Indelicato PA (1988): Synthetic and allograft anterior cruciate ligament reconstruction. *Clin Sports Med* 7(4):773-84.