

A. SCHOLARLY ACTIVITY: REFEREED PUBLICATIONS

F1. Peer-reviewed and invited Books and Book Chapters

1. Tittlbach S., Knyrim H., **Baumeister J.** & Bös K. (2004). Motorische Tests. In W. Banzer, K. Pfeifer, L. Vogt (Ed.): Funktionsdiagnostik des menschlichen Bewegungsapparates (pp. 71-86). Berlin: Springer Verlag
2. **Baumeister J.** (2007). Zentralnervöse und motorische Auswirkungen einer Verletzung und Rekonstruktion des vorderen Kreuzbandes bei sensomotorischen Aufgaben. University Press (Dissertation), Paderborn
3. **Baumeister, J.**, Reinecke, K., Herbarth, B., Herwegen, H., Liesen, H. & Weiss, M. (2008). Brain activity in a golf putting task: the effect of skill level. In D. Crews & L. Rafer (Ed.), *Science and Golf V* (pp. 208-215). Mesa: Energy in Motion.
4. **Baumeister J.**, Reinecke K., Schnittker R. & Weiss M. (2009). Auswirkungen physischer Belastung auf den Hautleitwert als Abbild psychischer Belastung. In Bundesinstitut für Sportwissenschaft (Ed.), *BiSp-Jahrbuch – Forschungsförderung 2007/2008*.
5. **Baumeister J.**, Reinecke K., Schubert M. & Weiss M. (2010). Einfluss von Ermüdung auf die Gehirnaktivität während einer visuell-räumlichen Präzisionsaufgabe. In: Amesberger, G., Finkenzeller, T., Würth, S. (Ed.). *Psychophysiologie im Sport – zwischen Experiment und Handlungsoptimierung* (p.38). Czwalina: Hamburg
6. **Baumeister J.** (2013). Sensorimotor Control and Associated Brain Areas in Sports Medicine Research. University Press (Habilitation), Paderborn
7. Arica P., Borghini G., Chuang L & **Baumeister J.** (Eds). Neurophysiological Measures for Human Factor Evaluation in Real World Settings. IN: Computational Intelligence and Neuroscience. Special issue vol 2019

F2. Articles in peer-reviewed journals

1. **Baumeister J.** & Weiss M. (2002). Non-typical measurements during an isokinetic training session after ACL-reconstruction. *Sportverletz Sportschaden* 16 (2), 74-79
2. Weiß M., Barthel T. & **Baumeister J.** (2004). Stressmodelle und Analyse der Hirntätigkeit. *ForschungsForum* 7, 62-67
3. Jäger R., Purpura M., Geiss K.R., Weiss M., **Baumeister J.**, Amatulli F., Schröder L. & Herwegen H. (2007). The effect of phosphatidylserine on golf performance. *J Int Soc Sports Nutr* 4(1), 23
4. **Baumeister J.**, Reinecke K. & Weiss M. (2008). Changed cortical activity after anterior cruciate ligament reconstruction in a joint position paradigm: an EEG study. *Scand J Med Sci Sports* 18(4), 473-484
5. **Baumeister J.**, Reinecke K., Liesen H. & Weiss M. (2008). Cortical activity of skilled performance in a complex sports related motor task. *Eur J Appl Physiol* 2008, 104:625-631
6. **Baumeister J.**, Barthel T., Geiss K.R. & Weiss M. (2008). Influence of phasphatidylserine on cognitive performance and cortical activity after induced stress. *Nutr Neurosci* 11(3), 103-110
7. **Baumeister J.** (2008). Sensomotorik: Kreuzbandverletzung hinterläßt Spuren im Gehirn. *Sportverl Sportschad* 22(3), 135-138

8. **Baumeister J.**, Reinecke K., Cordes M., Lerch C., Weiss M. (2010). Brain activity in real golf putting and playing Nintendo Wii golf. *Neurosci Letters* 481(1), 47-50
9. **Baumeister J.**, Reinecke K. & Weiss M. (2011). Altered electrocortical brain activity after ACL reconstruction during force control *J Orthop Res* 29(9), 1383-1389
10. Plattner K., **Baumeister J.**, Lamberts R.P. & Lambert M.I. (2011). Dissociation in changes in EMG activation during maximal isometric and submaximal low force dynamic contractions after exercise induced muscle damage. *J Electromyogr Kinesiol* 21(3), 542-550
11. Reinecke K., Cordes M., Lerch C., Schubert M., Koutsandreu F., Weiss M. & **Baumeister J.** (2011). From lab to field conditions: A pilot study on EEG methodology in applied sports sciences *Appl Psychophysiol Biofeedback* 36(4), 265-271
12. **Baumeister J.**, Reinecke K., Schubert M., Schade J. & Weiss M. (2012). Effects of induced fatigue on brain activity during sensorimotor control. *Eur J Appl Physiol* 112(7), 2475-82
13. **Baumeister J.** (2012). What the brain can tell us in musculoskeletal rehabilitation. *J Sport Medic Doping Stud* 2:3
14. **Baumeister J.** (2012). Die Rolle des Gehirns nach Kreuzbandverletzungen – Ansatz für innovative Präventions- und Rehabilitationsprogramme. *ForschungsForum* 15, 52-58
15. Plattner C., Lambert MI & **Baumeister J.** (2012). The response of cortical alpha activity to pain and neuromuscular changes caused by exercise induced muscle damage. *Scand J Med Sci Sports* 24(1), 166-178
16. **Baumeister J.**, von Detten S, van Niekerk SM, Schubert M, Ageberg E & Louw Q. (2013) Brain activity in predictive sensorimotor control for landings before and after fatigue: an exploratory pilot study. *Int J Sports Med* 34(12), 1106-1111
17. Plattner C, Lambert MI, Tam N, Lamberts RP & **Baumeister J.** (2014) Changes in cortical beta activity related to biceps brachii movement task while experiencing exercise induced muscle damage. *Physiol Behav* 123, 1-10
18. Needle A, Swanik CB, Schubert M, Reinecke K, Farquahr W, Higginson J, Kaminski T & **Baumeister J.** (2014). Decoupling of laxity and cortical activation in functionally unstable ankles during joint loading. *Eur J Appl Physiol* 114(19), 2129-38
19. Needle A, **Baumeister J.**, Kaminski T, Higginson J, Farquahr W & Swanik CB. (2014). Neuromechanical coupling in the regulation of muscle tone and joint stiffness. *Scand J Med Sci Sports* 24(5), 737-745
20. Louw QA, Gillion N, van Niekerk SJ & **Baumeister J.** (2015). The effect of vision on knee biomechanics during functional activities – A Systematic Review. *J Sci Med Sport* 18(4), 469-74
21. Needle A, **Baumeister J.**, Kaminski T, Higginson J, Farquahr W & Swanik CB. (2015). The relationship between joint stiffness and muscle activity differs between unstable ankles and copers. *J Sports Rehabil* (epub ahead of print)
22. Luchsinger H, Sandbakk O, Schubert M, Ettema G & **Baumeister J.** (2016). A comparison of Brain Activity During Shooting among Biathletes and Cross-Country Skiers Before and After Vigorous Exercise. *PLoS One* 11(3), e0150461

23. Needle AR, Kaminski TW, **Baumeister J**, Higginson JS, Farquhar WB, Swanik CB. (2017). The Relationship Between Joint Stiffness and Muscle Activity in Unstable Ankles and Copers. *J Sport Rehabil* 26(1), 15-25
24. Koopmann T, Steggemann-Weinrich Y, **Baumeister J** & Krause D. (2017). Mental Rotation of Tactical Instruction Displays Affects Information Processing Demand and Execution Accuracy in Basketball. *Res Q Exerc Sport*. 88(3), 365-370
25. Berner K, Morris L, **Baumeister J** & Louw Q. (2017). Objective impairments of gait and balance in adults living with HIV-1 infection: a systematic review and meta-analysis of observational studies. *BMC Musculoskelet Disord*. 18(1), 325
26. Lehmann T, Paschen L, **Baumeister J**. (2017). Single-Leg Assessment of Postural Stability After Anterior Cruciate Ligament Injury: a Systematic Review and Meta-Analysis. *Sports Med Open*. 3(1), 32
27. Needle AR, **Baumeister J**, Farquahr WB, Greaney JL, Higginson JL, Kaminski TW & Swanik CB. (2018). The Relationship between Sensory Responses to Ankle Joint Loading and Corticomotor Excitability. *Int J Neuroscience* 128(5), 15-25
28. An YW, Di Trani A, Lehmann T, **Baumeister J**, Rose WC, Higginson J, Rosen J & Swanik CB. (2019). Neuroplastic changes in ACLR patients from Neuromechanical coupling. *Scand J Med Sci Sports* 29(2), 251-258
29. Gokeler A, Neuhaus D, Benjaminse A, Grooms D & **Baumeister J**. (2019). Principles of Motor Learning to Support Neuroplasticity after ACL Injury: Implications for Optimizing Performance and Reducing Risk of Second ACL Injury. *Sports Med* 2019 Feb; epub ahead of print
30. Gokeler A, Neuhaus D, Benjaminse A, Grooms D & **Baumeister J**. (2019). Correction to: Principles of Motor Learning to Support Neuroplasticity after ACL Injury: Implications for Optimizing Performance and Reducing Risk of Second ACL Injury. *Sports Med* 2019 Feb; epub ahead of print
31. Paschen L, Lehmann T, Kehne M & **Baumeister J**. Effects of acute physical exercise with low and high cognitive demands on executive functions in children: a systematic review. *Pediatr Exerc Sci* 2019 epub ahead of print
32. Vogt S, Skjaeret-Maroni N, Neuhaus D & **Baumeister J**. Virtual Reality Interventions for Balance Prevention and Rehabilitation after Musculoskeletal Lower Limb Impairments in Young up to Middle-Aged Adults: A Comprehensive Review on Used Technology, Balance Outcome Measures and Observed Effects. *Int J Med Inform* 2019, epub ahead of print
33. An YW, DiTrani Lobacz A, **Baumeister J**, Rose W, Higginson J, Rosen J & Swanik CB. Negative Emotion Alters Joint Stiffness Regulation Strategies After Anterior Cruciate Ligament Injury. *J Athl Train* (in press)
34. Büchel D, Döring M, Jakobsmeier R, Adams M, Rückert U & Baumeister J. Effects of playing position and time on-court on activity profiles in german elite team handball. submitted to *Int J Perform Anal Sport*
35. Büchel D, Lehmann T, Cockroft J, Louw QA & **Baumeister J**. Effects of physical load on cortical activation during single leg stance. Submitted to *Scand J Med Sci Sports* (SJMSS-O-359-18)

36. Lehmann T, Büchel D, Cockcroft J, Louw QA & **Baumeister J**. Functional brain connectivity related to postural control in human single leg stance compared to bipedal stance. Submitted to Neurosci Lett
37. Chuckravanen D, Angelova M, Rajbhandari S, **Baumeister J**, Thompson KJ & St Clair Gibson A. Complexity and regulatory role of physiological activities during a pacing exercise. PLoS One (submitted)

F3. Refereed presentations and conference proceedings

1. Barthel T., Schnittker R., Peters P., **Baumeister J.**, Becker A., Liesen H. & Weiss M. (2003). Changes in cortical activity and Movement-related-cortical-Potentials MRCP's) during initial pedal kicks on a cycle ergometer in patients after anterior cruciate ligament reconstruction (ACL). In W.I. Schöllhorn, C. Bohn, J.M. Jäger, H. Schaper, M. Alichmann (Ed.), *European Workshop on Movement Science – Mechanics, Physiology, Psychology*. (pp. 90-91), Münster: Sport & Buch Strauß
2. Barthel T., **Baumeister J.**, Liesen H. & Weiss M. (2003). Zentralnervöse Regulation im EEG nach erschöpfender Ergometerbelastung in Abhängigkeit von der Ausdauerleistungsfähigkeit. Dt Z Sportmed 54(7-8), 68
3. Barthel T., Schnittker R., Peters P., **Baumeister J.**, Liesen H. & Weiss M. (2003). Führen Kreuzbandrekonstruktionen zu Veränderungen im zentralen Nervensystem und kortikaler Bewegungsplanung? Dt Z Sportmed 54(7-8), 62
4. **Baumeister J.**, Ries C. & Weiss M. (2004). Influence of limb dominance on knee flexor:extensor ratio of ACL reconstructed patients. Isokin Exerc Sci 12(1), 59-60
5. **Baumeister J.**, Barthel T., Reinecke K., Koplin S. & Weiss M. (2005). Zentrale Aktivierung während einfachen motorischen, motorisch-mental und kognitiven Aufgabenstellungen. Gibt es charakteristische Merkmale? Dt Z Sportmed 56(8), 300
6. **Baumeister J.**, Ries C. & Weiss M. (2005). Einfluß der Seitigkeit auf die funktionelle Kraftbalance bei Patienten mit rekonstruiertem vorderem Kreuzband. Dt Z Sportmed 56(8), 284
7. **Baumeister J.**, Reinecke K., Liesen H. & Weiss M. (2007). Changes in brain activity patterns during a sensorimotor task due to ACL-reconstruction. Med Sci Sport Exerc 39(5), 330
8. **Baumeister J.**, Reinecke K. & Weiss M. (2007). Electro-cortical activation patterns in two different proprioceptive modalities after ACL reconstruction. In J. Kallio, P.V. Komi, J. Komulainen & J. Avela (Ed.). *Book of Abstracts - ECSS Jyväskylä 2007*, 618
9. **Baumeister J.**, Reinecke K. & Weiss M. (2007). Different cortical activation patterns due to two different proprioceptive modalities in ACL reconstructed patients. In P. Beek, R. van de Langenberg (Ed.): *European Workshop On Movement Science – Mechanics, Physiology, Psychology*. (pp.138-139), Köln: Buch & Sport Strauß, Köln 2007
10. **Baumeister J.**, Reinecke K. & Weiss M. (2007). Kortikale Veränderungen während sensomotorischer Aufgaben nach Rekonstruktion des vorderen Kreuzbandes. Dt Z Sportmed 58(7/8), 207
11. Herbarth B., **Baumeister J.**, Herwegen H., Liesen H. & Weiss M. (2007). Neuromonitoring in a Golf Putting Task: Discrimination of skill level due to different conditions. In P. Beek, R. van de Langenberg (Ed.): *European Workshop On Movement Science – Mechanics, Physiology, Psychology*. (pp.138-139), Köln: Buch & Sport Strauß, Köln 2007
12. Herbarth B., **Baumeister J.**, Herwegen H., Liesen H. & Weiss M. (2007) Complex Neuromonitoring in a Golf Putting Task. Med Sci Sport Exerc 39(5), 329

13. **Baumeister J.**, Reinecke K., Herbarth B., Liesen H. & Weiss M. (2008). Brain activity: how experts differ from novices in goal-directed sports performance. In J. Cabri, F. Alves, D. Araujo, J. Barreiros, J. Diniz, A. Veloso (Eds.): Book of Abstracts - ECSS Estoril 2008. (p.24), Cologne: SporTools
14. **Baumeister J.**, Reinecke K. & Weiss M. (2008). How the brain works: Imagination of proprioceptive modalities after ACL- reconstruction. *Isokin Exerc Sci*, 2008, 16(3), 192
15. **Baumeister J.**, Reinecke K. & Weiss M. (2008). Mehr als seine periphere Verletzung: Kortikale Veränderungen nach Rekonstruktion des vorderen Kreuzbandes. *Sport Orthop Traumatol*, 24(2), 109-110
16. Reinecke K., **Baumeister J.** & Weiss M. (2008). The state of mind during golf putting: Do hemispheric asymmetries play a role?
17. Reinsberger C., **Baumeister J.**, Weiss M. & Classen J. (2008) Modulation of corticomuscular coherences by proprioceptive somatomotor leg training. *Klin Neurophys* 39(1), 145
18. Koplin S., Schnittker R., **Baumeister J.**, Jöllenbeck T. & Weiss M. (2008) Reliability of force plates during drop-landing: A basis for reference data in the rehabilitation process *Isokin Exerc Sci*, 16(3), 200,
19. Koplin S., Schnittker R., **Baumeister J.**, Jöllenbeck T. & Weiss M. (2008). Functional testing: Do force plates deliver reliable parameters to analyse drop-landings? In J. Cabri, F. Alves, D. Araujo, J. Barreiros, J. Diniz, A. Veloso (Eds.): Book of Abstracts - ECSS Estoril 2008. (p.460), Cologne: SporTools
20. Reinecke K., **Baumeister J.** & Weiss M. (2008). Do Hemispheric Asymmetries play a Role in Golf Putting? In J. Cabri, F. Alves, D. Araujo, J. Barreiros, J. Diniz, A. Veloso (Eds.): Book of Abstracts - ECSS Estoril 2008. (p.190), Cologne: SporTools,
21. **Baumeister J.**, Reinecke K. & Weiss M. (2009). Imagination of sensorimotor tasks after ACL reconstruction: An EEG pilot study. *Med Sci Sports Exerc* 41(5), 124
22. **Baumeister J.**, Reinecke K., St Clair Gibson A., Rauch L.H., Noakes T.D. & Weiss M. (2009) Mental fatigue as a tool in sports and exercise: Evaluation of performance, perception and brain activity. In: Loland, S., Bø, K., Fasting, K., Hallén, J., Ommundsen, Y., Roberts, G., Tsolakidis, E. (eds.): Book of Abstracts - ECSS Oslo 2009. Cologne, 89
23. **Baumeister J.**, Reinecke K., Schubert M. & Weiss M. (2009) Cortical activity during force production after ACL reconstruction. In: Vaughan K, Schewe H: International Society of Biomechanics 2009 – Programme Book, Cape Town, 22
24. Koplin S, Schnittker R, Louw Q, **Baumeister J**, Weiss M: Influence of different instructions on vertical ground reaction forces during drop landings. . In: Vaughan K, Schewe H: International Society of Biomechanics 2009 – Programme Book, Cape Town, 29
25. Koplin S, Schnittker R, Louw Q, **Baumeister J**, Weiss M. (2009). Der Einfluss von Modifikationen der Bewegungsinstruktion auf das Landeverhalten bei Niedersprüngen. *Dtsch Z Sportmed* 60(7+8), 324
26. Weist G, Redenius-Heber J, Schnittker R & Baumeister J. (2009). Einfluss der körperlichen Entwicklung auf die Sprintleistung und Talentauswahl im Nachwuchsfussball. *Dtsch Z Sportmed* 60(7+8), 185
27. Reinecke K., Cordes M., Lerch C., Schubert M., Weiss M. & **Baumeister J.** (2009). Virtual golf putting: Cortical activation during real golf putting compared to Nintendo Wii putting performance. In: Loland, S., Bø, K., Fasting, K., Hallén, J., Ommundsen, Y., Roberts, G., Tsolakidis, E. (eds.): Book of Abstracts - ECSS Oslo 2009. Cologne,

28. Reinecke K., Cordes M., Lerch C., Schubert M., Weiss M. & **Baumeister J.** (2009). Cortical activity during mental imagery of golf putting compared to real golf putting performance. Progress in Motor Control - Presentations, Marseille, 22
29. Reinecke K., Cordes M., Lerch C., Schubert M., Weiss M. & **Baumeister J.** (2009). Übertragbarkeit der Elektroenzephalographie von der Laborsituation ins Feld am Beispiel des Golf Putts. Dtsch Z Sportmed 60(7+8), 288
30. Cordes M., Lerch C., Reinecke K., Schubert M., Weiss M. & **Baumeister J.** (2009). Virtuuell-interaktives Putten (Nintendo Wii) im Golf: Unterschiede in der kortikalen Aktivität im Vergleich zum realen Putt. Dtsch Z Sportmed 60(7+8), 287
31. Lerch C., Cordes M., Reinecke K., Schubert M., Weiss M. & **Baumeister J.** (2009). Vergleich der kortikalen Aktivität in realen und mentalen Puttsituationen im Golf. Dtsch Z Sportmed 60(7+8), 289
32. Koplin S., Schnittker R., Louw Q., Weiss M. & **Baumeister J.**: Influence of different instructions of vertical ground reaction forces during drop landings. In: Vaughan K, Schewe H: International Society of Biomechanics 2009 – Programme Book, Cape Town, 29
33. Paier D., Schnittker R., Wilhelm P., Preis R, Weiß M. & **Baumeister J.** (2009). Physiologische Spielbeobachtung – Testgüte des Videotrackings im Sports Performance Analyzer (SPA). Dtsch Z Sportmed 60(7+8), 69
34. Schnittker R., Paier D., Wilhelm P, Weiß M. & **Baumeister J.** (2009). Leistungsvoraussetzungen und Anforderungsprofil im deutschen Profibasketball. Dtsch Z Sportmed 60(7+8), 81
35. **Baumeister J.**, von Detten S, van Niekerk SM, Schubert M, Ageberg E & Louw QA. (2012). Fatigue causes changes in brain activity during the preparation of a drop landing task. (oral presentation at the Scandinavian Congress of Medicine and Science in Sports, 20. September, Malmö, Sweden)
36. **Baumeister J.**, Reinecke K., Schubert M. & Weiss M. (2010). Motor control and brain activity after prolonged exhaustive exercise: neurophysiological insights into fatigue. Med Sci Sports Exerc 42(5), 63
37. **Baumeister J.**, Reinecke K., Schubert M. & Weiss M. (2010). Exhaustive exercise leads to changes in cortical activity and cognitive function. In F. Korkusz, H. Ertan, E. Tsolakidis (Eds.). Abstract Book – 15th Annual Congress of the European College of Sports Science. SporTools, Köln
38. Schnittker R., **Baumeister J.**, Paier D., Wilhelm P. Weiss M. (2010). Requirements and profile of German professional basketball. Med Sci Sports Exerc 42(5), 762
39. Schubert M., Reinecke K., Schade J., Weiss M. & **Baumeister J.** (2010). The required number of epochs for representing brain states from spontaneous EEG. In D. Farina, D. Falla, D. Popovic, T. Sinkjaer (Eds.). ISEK 2010 – Scientific Program. Aalborg, 54
40. Reinecke K., Schubert M., Weiss M. & **Baumeister J.** (2010). Altered brain activity after an exhaustive strength training. In Korkusz F, Ertan H, Tsolakidis E (Eds.). Abstract Book – 15th Annual Congress of the European College of Sports Science. SporTools, Köln
41. Koplin S., Kirchner C., Koschate J., Weiß M. & **Baumeister J.** (2010). The effect of visual perturbation during drop landings. In Korkusz F, Ertan H, Tsolakidis E (Eds.). Abstract Book – 15th Annual Congress of the European College of Sports Science. SporTools, Köln
42. Plattner T., **Baumeister J.**, Lamberts RP, Lambert MI. (2011). Dissociation in changes in EMG Activation during maximal isometric and submaximal low force dynamic contractions after exercise induced muscle damage. In Cable, T. (Es.). Abstract Book – 16th Annual Congress of the European College of Sports Science. SporTools, Köln

43. Koutsandreuou F, Reinecke K, Schade J, Cordes M, Schubert M, Kehne M, Kämpfe A & **Baumeister J.** (2011). Effekte einer Jonglierintervention auf die kognitive Leistung und die Gehirnaktivität von Grundschulern. In Hottenrott K, Stoll O & Wollny R (Hrsg.). Kreativität – Innovation – Leistung, Feldhaus Verlag, 266
44. Schubert M & **Baumeister J.**(2011). Ermüdung im Sport: ein neurokognitiver Erklärungsansatz. In Hottenrott K, Stoll O & Wollny R (Hrsg.). Kreativität – Innovation – Leistung, Feldhaus Verlag, 79
45. Lerch C., Cordes M. & **Baumeister J.** (2011). Effectiveness of injury prevention programs in female youth soccer: a systematic review. Br J Sports Med 45(4), 359
46. Reinecke K, Schubert M, Schade J, Weiß M & **Baumeister J.** (2011). Brain activity during motor control is not influenced after exhaustive strength training. In Sellens M, Sandercock G, Taylor M & Micklewright D (Eds.): Fatigue: An Interdisciplinary approach. University of Essex, Essex, 60-61
47. Von Detten S, Boguslawski D, Hanschke U, Weiß M & **Baumeister J.** (2011). Evaluation of a functional fatigue protocol. In Sellens M, Sandercock G, Taylor M & Micklewright D (Eds.): Fatigue: An Interdisciplinary approach. University of Essex, Essex, 86-87
48. Von Detten S, Boguslawski D, Hanschke U, Weiß M & **Baumeister J.** (2011). The influence of fatigue on landing strategies after a stop jump. In Sellens M, Sandercock G, Taylor M & Micklewright D (Eds.): Fatigue: An Interdisciplinary approach. University of Essex, Essex, 50
49. Plattner K, Tam N, Lambert MI & **Baumeister J.**(2012). The response of cortical alpha activity to pain and neuromuscular changes caused by exercise induced muscle damage.
50. Schubert M, Hansmeier T, Koutsandreuou F, Reinecke K, weiß M & **Baumeister J.** (2012). Approaching effective connectivity measures in exercise neuroscience.
51. Reinecke K, Schubert M, Weiß M & **Baumeister J.** (2012). Divergente kortikale Aktivierung nach erschöpfendem Kraft und Ausdauertraining: eine EEG Studie. Dt Z Sportmed 63 (7+8), 250
52. Koutsandreuou F, Cordes M, Schubert M, Weiß M & **Baumeister J.** (2012). Jonglieren steigert die Gehirnaktivität von Grundschulern. Dt Z Sportmed 63(7-8), 224
53. Needle AR, Swanik CB, Schubert M, Reinecke K, Higginsson JS & **Baumeister J** (2013). Instrumented anterior mobilization of the ankle joint increases contralateral somatosensory cortex activation in healthy subjects (accepted for oral presentation at NATA Annual Meeting in Las Vegas, 23-27 June 2013, **nominated for NATA Doctoral Oral Students Award 2013**)
54. Schubert M, Reinecke K, Pezeshkian A, Fergland D, Reinsberger C & Baumeister J. (2014) Das kortikale Abbild sensomotorischer Kontrollprozesse – Grundlage zur Untersuchung zentraler Ermüdung. Dt Z Sportmed 65 (7-8), 190 (**ausgezeichnet mit dem DGSP Poster Award 2014**)
55. Needle AR, Swanik CB, Baumeister J, Higginson JS, Farquahr WB, Greaney JL & Kaminski TW. (2014). Ankle injury alters the links between joint laxity, peripheral sensation and cortical activation. J Athl Train 49(3), 167
56. Jakobsmeier R, Fergland D, Pezeshkian A, Reinsberger C, Heitkamp CH & **Baumeister J.** (2014). Veränderte Drop Jump Performance durch ein Maximalkrafttraining auf instabilen Unterstützungsflächen. Dt Z Sportmed 65 (7-8), 230
57. Reinecke K, Scheer V, Heitkamp HC, Wrenger M, Reinsberger C & **Baumeister J.** (2015). Evaluation eines Trainingsprogramms zur Verbesserung der kardiovaskulären Risikofaktoren bei Feuerwehrleuten. Dt Z Sportmed 66 (7-8), 187

58. Schubert M, Reinecke K, Heitkamp HC, Reinsberger C & **Baumeister J.** (2015). Kortikale Netzwerkdyamik motorischer Kontrollprozesse - Grundlage zur Untersuchung zentraler Ermüdung. Dt Z Sportmed 66 (7-8), 195
59. Flore Z, Jakobsmeier R, Schnittker R, **Baumeister J** & Reinsberger C. (2015). Neuro-physiologische Biomarker im Leistungsfußball: eine Pilotuntersuchung. Dt Z Sportmed 66 (7-8), 189
60. Reinecke K, Krome M, Schrans D, **Baumeister J** & Reinsberger C. (2015). Talentdiagnostik im Nachwuchsleistungsfußball: eine retrospektive Analyse zur Ermittlung der Toptalente innerhalb der U19. In: Könecke T, Preuss H & Schöllhorn Wl. (Eds.). Moving Minds – Crossing Boundaries in Sport Science. Feldhaus-Verlag, Hamburg
61. Schubert M, Reinsberger C & **Baumeister J.** (2015). Event-related causality in a cortical sensorimotor control network during precise finger force generations. Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.
62. Krause D, Zobe C, Blischke K & **Baumeister J.** (2016). Scaling of visually presented augmented feedback affects automatization in motor skill learning. J Sports Exerc Psychol 38(Supplement), 77
63. Koopmann T, Krause D, Steggemann-Weinrich Y & **Baumeister J.** (2016). Mental rotation of tactical instruction displays affects processing demands and execution accuracy of playing patterns in basketball. J Sports Exerc Psychol 38(Supplement), 217
64. Büchel D, Grundmann R, Koers T, Jakobsmeier R & **Baumeister J.** (2016). Positionsspezifischer Zusammenhang von Ausdauerleistungsfähigkeit und Laufleistung im Profifussball. Dt Z Sportmed 67(7-8), 183
65. Grundmann R, Büchel D, Koers T, Jakobsmeier R & **Baumeister J.** (2016). Einfluss der Mehrbelastung Fußball-WM 2014 auf die Ausfalltage von Spielern der Fußball-Bundesliga. Dt Z Sportmed 67 (7-8), 187
66. Rudolf, N, Krome M, **Baumeister J** & Reinsberger C. (2016). Evaluation eines Trainingsprogramms zur Steigerung der körperlichen Fitness von Büroangestellten. Dt Z Sportmed. 67(7-8), 186
67. An YW, DiTrani A, Struminger AH, **Baumeister J** & Swanik CB. (2016). Asymmetric Cortical Activity between limbs during Joint Loading. Med Sci Sports Exec 48(5S), 973
68. An YW, DiTrani A, Struminger AH, Lehmann T, Baumeister J & Swanik CB. (2016). Neuromechanical links between cortical activity and knee stiffness during joint loading. J Athl. Train 51 (6), 290
69. An YW, DiTrani Lobacz, A, Lehmann T, **Baumeister J** & Swanik CB. (2017). Altered brain activity during joint loading after anterior cruciate ligament reconstruction. Med Sci Sports Exerc 49(5S), 360
70. An YW, DiTrani Lobacz, A, Lehmann T, **Baumeister J** & Swanik CB. (2017). Altered cortical activation patterns following anterior cruciate ligament reconstruction during joint loading. J Athl Train 52(6), 136
71. Anders P, Lehmann T, Müller H, Molde I, Gronvik KB, SkaeretMaroni N, Vereijken B & **Baumeister J.** (2017) Balance exergames increase cortical activity in frontal areas of the brain. Gait & Posture 57(1), 351
72. Lehmann T, Paschen L & **Baumeister J.** (2018). Comparison of postural stability in the ACL deficient and reconstructed leg: a Meta analysis. Dt Z Sportmed 69(5), 173
73. An YW, DiTrani Lobacz A, **Baumeister J** & Swanik CB. (2018). Negative emotional stimuli increase neurocognitive processing in the brain. J Athl Train 53(6S), 113

74. Vogt S, Neuhaus D & **Baumeister J**. (2019). Effects of different visual conditions on standing balance in a virtual reality scene: a pilot study. In: Klostermann, A., Vater, C., & Hossner, E.-J. (Hrsg.) (2019). *Sportmotorik 2019. Adaptation, Lernen und virtuelle Welten. Abstractband zur 16. Jahrestagung der dvs-Sektion Sportmotorik vom 16.-18. Januar 2019 in Bern* [elektronische Version]. doi: 10.7892/boris.123517
75. Neuhaus D, Vogt S, Boschmann A, Dosen S & **Baumeister J**. (2019). Effects of an augmented reality training using a myoelectric hand prsthesi: a pilot study. In: Klostermann, A., Vater, C., & Hossner, E.-J. (Hrsg.) (2019). *Sportmotorik 2019. Adaptation, Lernen und virtuelle Welten. Abstractband zur 16. Jahrestagung der dvs-Sektion Sportmotorik vom 16.-18. Januar 2019 in Bern* [elektronische Version]. doi: 10.7892/boris.123517
76. Lehmann T, Büchel D, Cockcroft J, Louw QA, & **Baumeister J**. (2018). Exploring Functional Brain Connectivity of Postural Control in Upright Stance. In: Gramann K. (Ed.) Proceedings of the 3rd International Mobile Brain/Body Imaging Conference. Berlin 12.-14.7.
77. Büchel D, Lehmann T, Cockcroft J, Louw QA & **Baumeister J**. (2018). Effect of a cognitive dual-task on electrocortical activation during single leg stance. In: Gramann K. (Ed.) Proceedings of the 3rd International Mobile Brain/Body Imaging Conference. Berlin 12.-14.7.
78. Bonnette S, Diekfuss JA, Barber Foss, KD, DiCesare CA, Riley MA, Riehm C, Moore C, Grooms DR, Myer GD, **Baumeister J**. (2019) A preliminary prospective Analysis of electrocortical signatures underlying ACL injury. Submitted to ACL Retreat VIII, 14.-16.3. in Greensboro
79. Claussen L, **Baumeister J**, Braaten S & Ettema G. (2019). Muscle activity patterns in imitation ski jumps. In: Sperlich B, Kunz P & Düking P. (Eds.). Book of abstracts – German Exercise Science and Training conference (GEST19). Ger J Exerc Sport Res 49, S5
80. Büchel D, Lehmann T & **Baumeister J**. (2019). Effect of age on reactive multidirectional speed in highly trained youth soccer players. In: Sperlich B, Kunz P & Düking P. (Eds.). Book of abstracts – German Exercise Science and Training conference (GEST19). Ger J Exerc Sport Res 49, S9
81. Büchel D, Döring M, Berkel F & **Baumeister J**. (2019). Sports-specific differences in reactive multidirectional speed in team sports athletes using the Speedcourt®. In: Sperlich B, Kunz P & Düking P. (Eds.). Book of abstracts – German Exercise Science and Training conference (GEST19). Ger J Exerc Sport Res 49, S9
82. Lehmann T, Büchel D, Cockcroft J, Louw QA & **Baumeister J**. Phase Coupling of Bilateral Motor Areas Decreases From Bipedal to Single Leg Stance. Accepted for Poster presentation at the Annual Meeting of the Organization of Human Brain Mapping (OHBM), June 9-13, 2019
83. Anders P, Müller H, Skjaeret-Maroni N, Vereijken B & **Baumeister J**. Automatic cleaning of movement artifacts in mobile EEG data using Artifact Subspace Reconstruction. Accepted for Poster presentation at the Annual Meeting of the Organization of Human Brain Mapping (OHBM), June 9-13, 2019