

## List of published preliminary research relevant to the research program

### Fielitz, Jens

#### Peer-reviewed Publications (selection)

1. Hahn A, Kny M, Pablo-Tortola C, Todiras M, Willenbrock M, Schmidt S, Schmoeckel K, Jorde I, Nowak M, Jarosch E, Sommer T, **Bröker BM**, Felix SB, Scheidereit C, Weber-Carstens S, Butter C, Luft FC, **Fielitz J**. 2019. Serum Amyloid A1 mediates myotube atrophy via Toll-like receptors. *J Cachexia Sarcopenia Muscle* (in print)
2. Wollersheim T, Grunow JJ, Carbon NM, Haas K, Malleike J, Ramme SF, Schneider J, Spies CD, Mardian S, Mai K, Spuler S, **Fielitz J\***, Weber-Carstens S\*. 2019. Muscle wasting and function after muscle activation and early protocol-based physiotherapy: an explorative trial. *J Cachexia Sarcopenia Muscle* doi:10.1002/jcsm.12428. [Epub ahead of print]. \*equal contribution
3. Huang N, Kny M, Riediger F, Busch K, Schmidt S, Luft FC, Slevogt H, **Fielitz J**. 2017. Deletion of Nlrp3 protects from inflammation-induced skeletal muscle atrophy. *Intensive Care Med Exp* 5:3
4. Zhu X, Kny M, Schmidt F, Hahn A, Wollersheim T, Kleber C, Weber-Carstens S, **Fielitz J**. 2017. Secreted Frizzled-Related Protein 2 and Inflammation-Induced Skeletal Muscle Atrophy *Crit Care Med* 45:e169-e83
5. Du Bois P, Pablo Tortola C, Lodka D, Kny M, Schmidt F, Song K, Schmidt S, Bassel-Duby R, Olson EN, **Fielitz J**. 2015. Angiotensin II Induces Skeletal Muscle Atrophy by Activating TFEB-Mediated MuRF1 Expression. *Circ Res* 117:424-436
6. Langhans C, Weber-Carstens S, Schmidt F, Hamati J, Kny M, Zhu X, Wollersheim T, Koch S, Krebs M, Schulz H, Lodka D, Saar K, Labeit S, Spies C, Hubner N, Spranger J, Spuler S, Boschmann M, Dittmar G, Butler-Browne G, Mouly V, **Fielitz J**. 2014. Inflammation-induced acute phase response in skeletal muscle and critical illness myopathy. *PLoS One* 9:e92048
7. Wollersheim T, Woehlecke J, Krebs M, Hamati J, Lodka D, Luther-Schroeder A, Langhans C, Haas K, Radtke T, Kleber C, Spies C, Labeit S, Schuelke M, Spuler S, Spranger J, Weber-Carstens S, **Fielitz J**. 2014. Dynamics of myosin degradation in intensive care unit-acquired weakness during severe critical illness. *Intensive Care Med* 40 528-538
8. Schmidt F, Kny M, Zhu X, Wollersheim T, Persicke K, Langhans C, Lodka D, Kleber C, Weber-Carstens S, **Fielitz J**. 2014. The E3 ubiquitin ligase TRIM62 and inflammation-induced skeletal muscle atrophy. *Crit Care* 18:545
9. Weber-Carstens S, Schneider J, Wollersheim T, Assmann A, Bierbrauer J, Marg A, Al Hasani H, Chadt A, Wenzel K, Koch S, **Fielitz J**, Kleber C, Faust K, Mai K, Spies CD, Luft FC, Boschmann M, Spranger J, Spuler S. 2013. Critical illness myopathy and GLUT4: significance of insulin and muscle contraction. *Am J Respir Crit Care Med* 187:387-396
10. Bierbrauer J, Koch S, Olbricht C, Hamati J, Lodka D, Schneider J, Luther-Schroeder A, Kleber C, Faust K, Wiesener S, Spies CD, Spranger J, Spuler S, **Fielitz J**, Weber-Carstens S. 2012. Early type II fiber atrophy in intensive care unit patients with nonexcitable muscle membrane. *Crit Care Med* 40 647-650