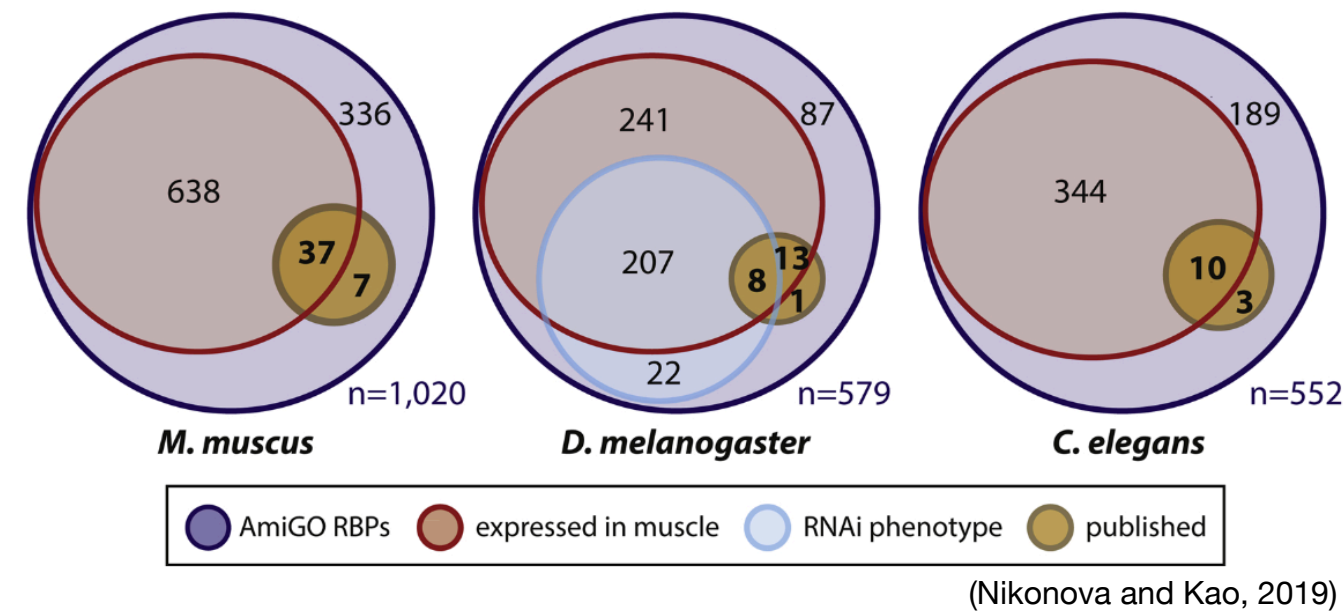


Splicing factor Scaf6/CHERP regulates muscle development in *Drosophila*

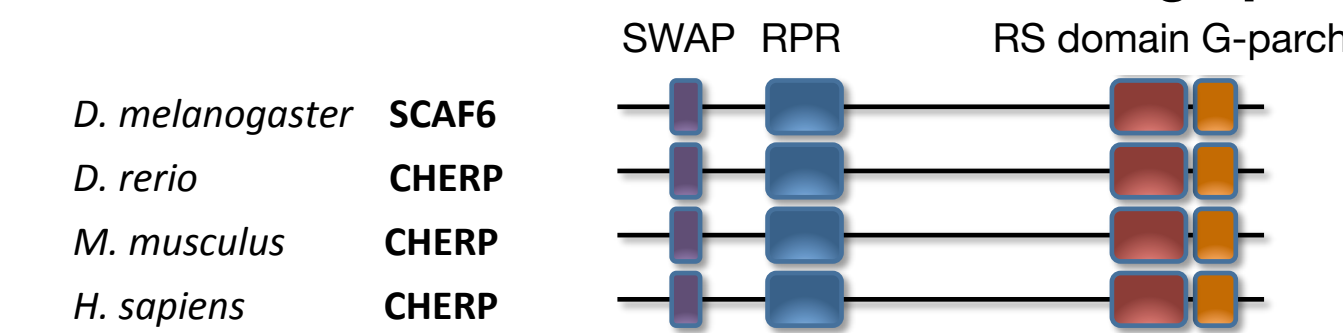
Shao-Yen Kao¹, Keshika Ravichandran¹, Rippei Hayashi², and Maria Spletter^{1,3}

¹Biomedical Center, Department of Physiological Chemistry, Ludwig-Maximilians-Universität München, Munich, Germany; ²John Curtis School of Medical Research, Australian National University, Canberra, Australia. ³Center for Integrated Protein Science Munich, Department of Chemistry, Munich, Germany

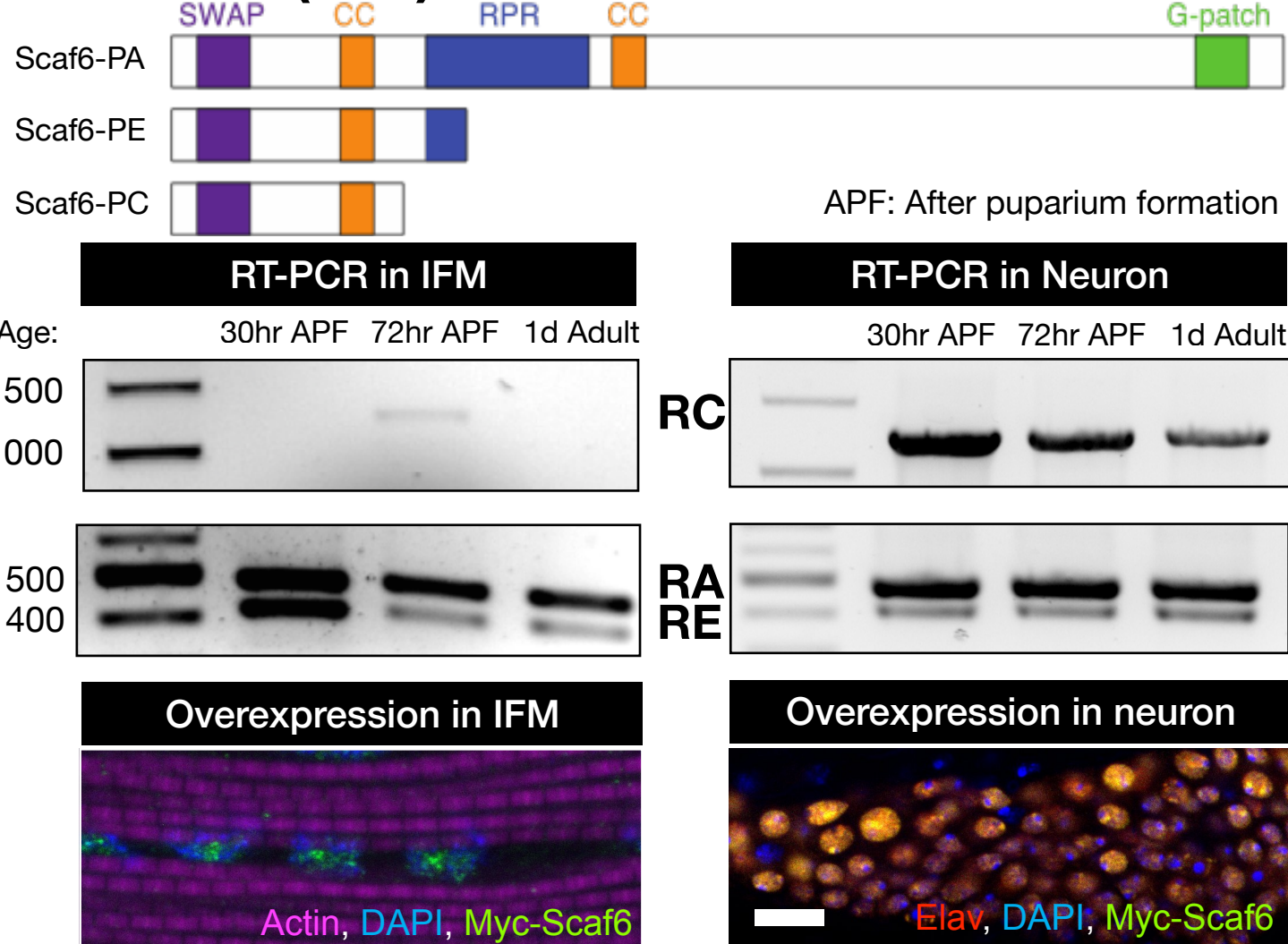
1. RNA binding proteins in muscle



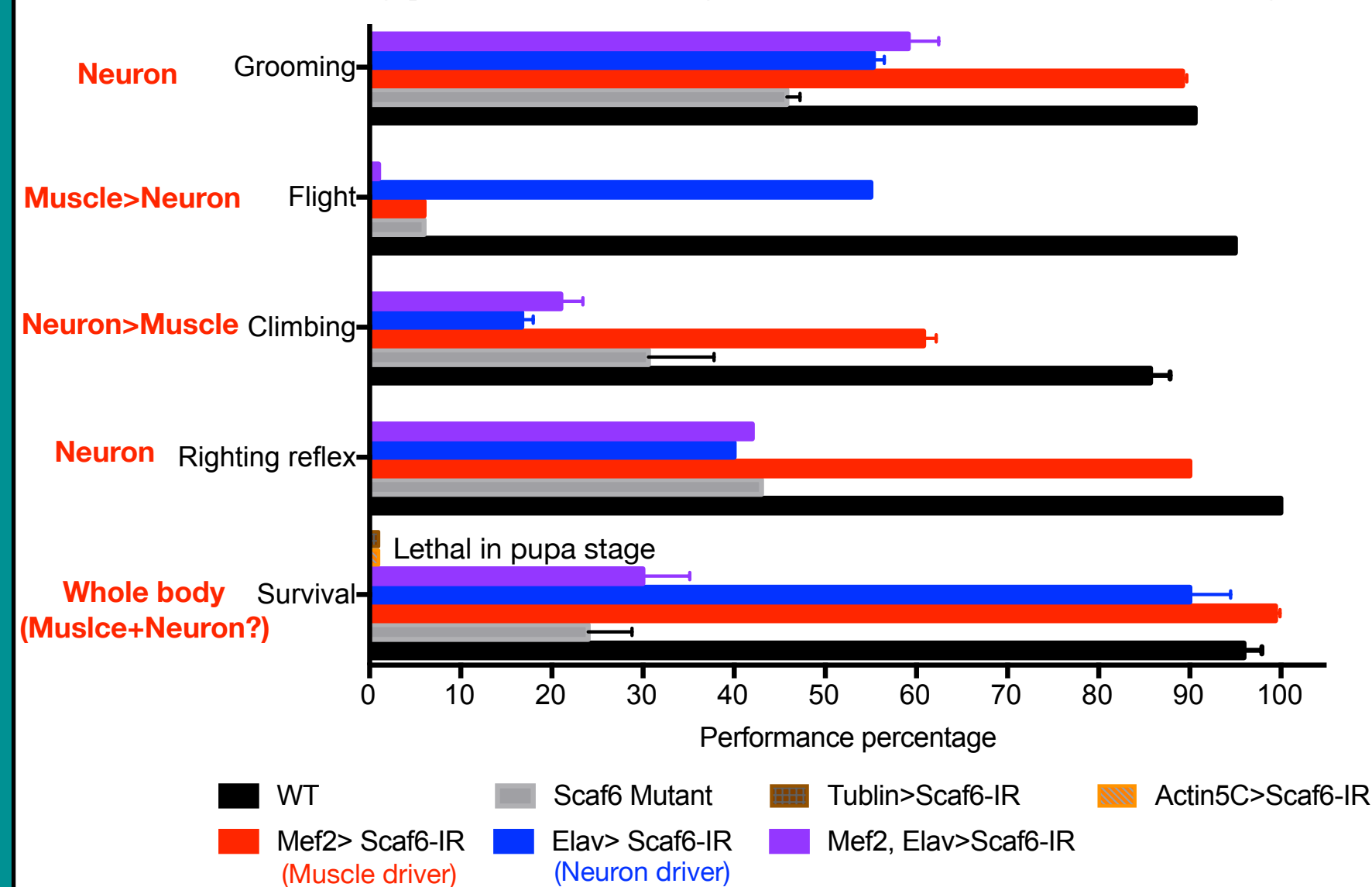
2. Scaf6/DmCHERP is conserved among species



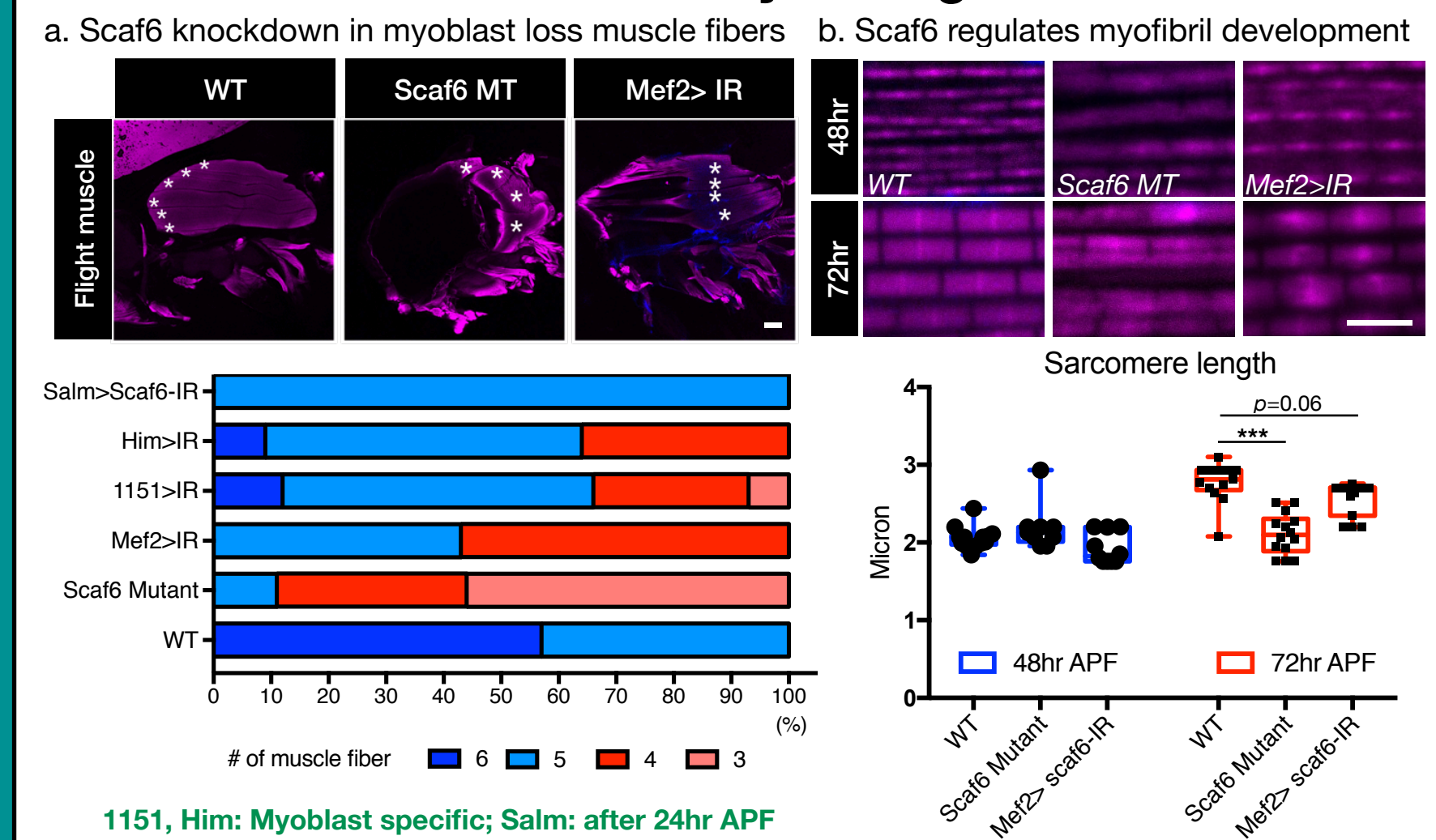
3. Scaf6 is expressed in fly flight muscle (IFM) and neuron nucleus



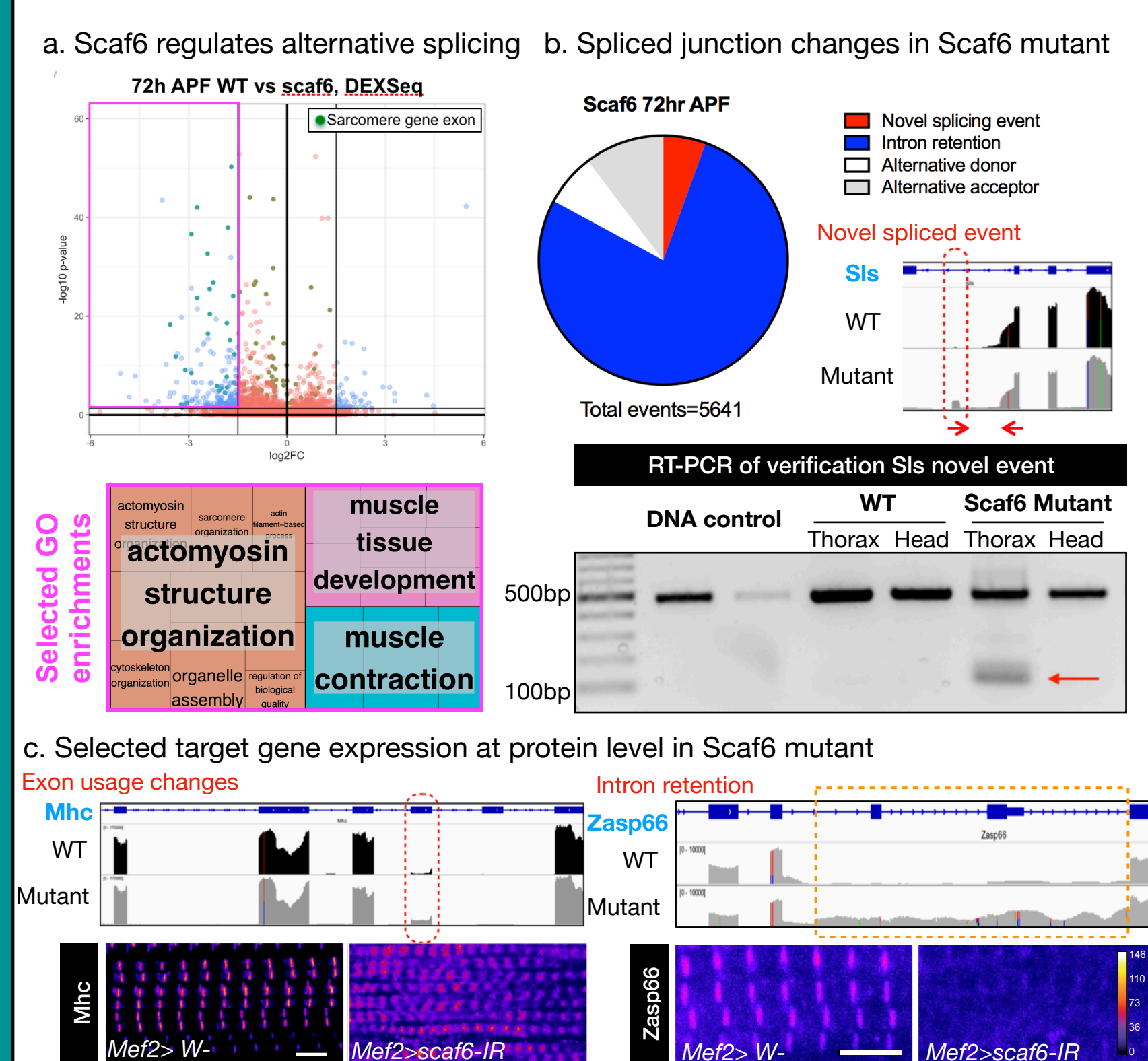
4. Tissue-type selectivity of Scaf6 function in fly



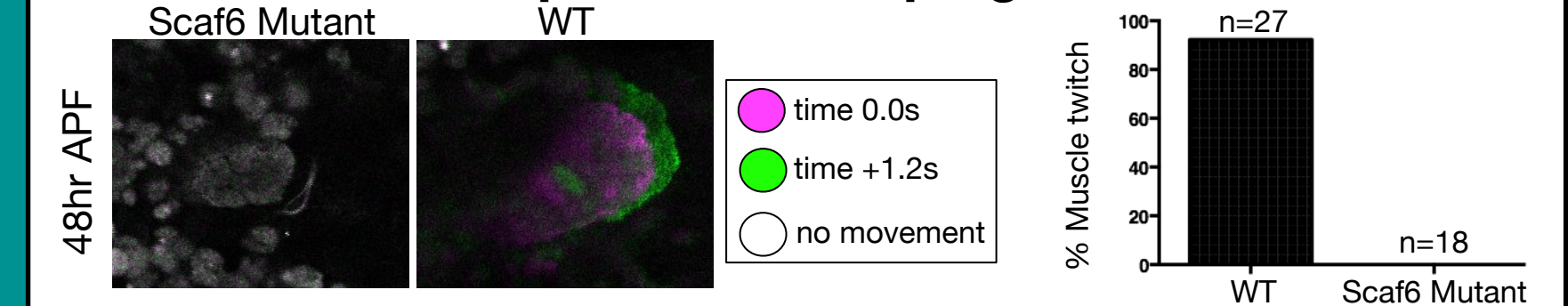
5. Scaf6 is necessary for flight muscle



6. Scaf6 regulates splicing in IFM muscle



7. LOF of Scaf6 impaired developing muscle contraction



Conclusion:

- Scaf6 plays functional roles in muscle and nervous system in selective perspectives
- Scaf6 functions in myoblast and myofibril development
- Scaf6 regulates RNA splicing dynamic in developing IFM and repress intron retention

Tell me know what your thought!! Contact me: shao-yen.kao@bmc.med.lmu.de