**News. April to November 2024 – Tony Day**

**- Congratulations**

**Jacob Betts**(UEA), jointly supervised by Linda Troeberg (UEA) and Tony Day, was awarded his PhD in August 2024. Jacob’s thesis was on *Molecular mechanisms of TIMP-3 turnover in Sorsby Fundus Dystrophy*.

**- (Virtual) Conferences / Seminars / Training courses**

**Tony Day** attended the Osteoarthritis Research Society International (OARSI) 2024 World Congress on Osteoarthritis, Vienna, Austria, 18-21 April. **Jenny****Scott**(from Tony’s lab) presented a poster: *New method for quantitation of TSG-6 in synovial fluid of osteoarthritis patients.*

**Tony Day** (along with other members of Link Biologics) attended the European Dry Eye Society (EuDES) Congress, Madrid, Spain, 21–24 June, 2024.

**Tony Day** was a Discussion Leader at the Gordon Research Conference on Proteoglycans, 7-12 July 2024, Andover, NH, USA. Rebecca Dodd presented a talk and poster at the Gordon Research Seminar on Proteoglycans, 6-7 July 2024, and at the Gordon Research Conference on Proteoglycans, 7-12 July 2024, Andover, NH, USA. Title: *IL-13 as a modulator of the hyaluronan matrix during lung inflammation and injury*.

**- Publications / Grants**

**Grants**

NIH R01 (1R01HL171283-01), £1,992,914 **15/08/24-14/08/28**: *The role of IL-13 in COVID-19 severity*. William A. Petri (University of Virginia), Judith E. Allen and **Tony Day** co-PIs.

NIH R01 (5R01GM134226-06), ~£880,000, **01/09/24-31/08/28**: *Development of solid-state nanopore technology for improved glycosaminoglycan analysis.* Adam Hall PI (Wake Forrest University Health Sciences, USA); Paul DeAngelis (University of Oklahoma Health Sciences Center) and **Tony Day**, co-Is.

Wellcome Discovery Award (304200/Z/23/Z), £3,379,143, **01/01/25-31/12/30**: *Immune regulation of the hyaluronan matrix in the lung during infection, injury and repair.* Judith E. Allen PI; **Tony Day**, Tracy Hussell, Tara Sutherland and William A. Petri co-applicants.

**Publications**

Dodd, R.J., Blundell, C.D., Sattelle, B.M., Enghild, J.J., Milner, C.M. & **Day, A.J.** (2024) Chemical modification of hyaluronan oligosaccharides differentially modulates hyaluronan-hyaladherin interactions. J*. Biol. Chem.*, *in press*. Published as a Paper in Press on 9 August 2024.

Shah, A., Zhang, X., Snee, M., Lockhart-Cairns, M.P., Levy, C.W., Jowitt, T.A., Birchenough, H.L., Dean, L., Collins, R., Dodd, R.J., Roberts, A.R.E., Enghild, J.J., Mantovani, A., Fontana, J., Baldock, C., Inforzato, A., Richter, R.P. & **Day, A.J.** (2024) The structural organisation of pentraxin-3 and its interactions with heavy chains of inter--inhibitor regulate crosslinking of the hyaluronan matrix. Published as a preprint at BioRxiv on 15 August 2024: <https://biorxiv.org/cgi/content/short/2024.08.14.607909v1>.

Scott, J., Dong, Y., Yin, J., Dodd, R.J., Kouvatsos, N., Drummond, S.P., Anand, S., Biant, L., Milner, C.M. & **Day, A.J.** (2024) A novel method to quantify TSG-6 protein levels in synovial fluid from osteoarthritis patients. *Proteoglycan Research* **2**, e70003. <http://dx.doi.org/10.1002/pgr2.70003>

**Day, A.J.** (2024) Hyaluronan-protein interactions: Lilliput revisited. *Proteoglycan Research*, in press. Published online on 7th November 2024: <https://doi.org/10.1002/pgr2.70007>

Dodd, R.J., Allen, J.E. & **Day, A.J.** (2024) Hyaluronan in COVID-19: a matrix for understanding lung disease (invited commentary). *mBio*, in press.

Moran, M.M., Li, J., **Day, A.J.**, Naqib, A., Green, S.J., Sumner, D.R., Plaas, A. Evidence of silencing of intestinal inflammatory and immune transcripts following induction of joint inflammation. Published as a preprint on BioRxiv on 17 October, 2024: <https://www.biorxiv.org/content/10.1101/2024.10.17.618923v1>

Dodd, R.J., Moffatt, D., Vachiteva, M., Parkinson, E.J., Chan, H.K.B., **Day, A.J.**, Allen, J.E. & Sutherland, T. IL-13 modulates the hyaluronan matrix following injury by the lung migrating nematode Nippostrongylus brasiliensis. *Proteoglycan Research*, in press.

**- Other News**

**Tony Day** (and Caroline Milner) have written a blog for Translation Manchester describing their translational journey on the development of Link\_TSG6 and the spinning out of Link Biologics: <https://www.translation.manchester.ac.uk/2024/06/26/success-stories-link-biologics/>

**- Extra-curricular Activities**

In September **Tony Day** (and Caroline Milner) went on holiday to the Outer Hebrides. Pictured below the journey from Mallaig to South Uist, Luskentyre beach (Harris) and Callanish (Lewis); photos © Tony Day 2024.

A wake in the water with mountains in the background

Description automatically generated

A sandy beach with grass and water

Description automatically generated

A group of tall rocks in a field with Callanish Stones in the background

Description automatically generated

**Tony Day** has acquired yet another electric guitar!

A white guitar leaning against a door

Description automatically generated