Programme:

Monday, 3rd September

11:00: Registration Desk Open

12.50: Welcome/Opening Remarks – Graham Riley (Norwich)

13.00: Session 1 - Tendon development, growth, adaptation and physiology
Chair: Graham Riley

13.00: Invited Speaker: Karl Kadler (Manchester) – ‘Is stiffer better? Towards a molecular understanding of tendon mechanical properties’

13.40: Short Talk: Rachel Stanley (Brighton) – ‘Are cells from flexor and extensor tendons inherently different? Use of a developmental model’ (Poster 1)

14.00: Invited Speaker: Katja Heinemeier (Copenhagen) – ‘Adaptation of tendon tissue to mechanical loading: role of stress-responsive growth factors’

14.40: Short Talk: Kirsten Legerlotz (Norwich) ‘The role of Interleukin-6 in the response of human hamstrings tendon to unloading, loading and overloading (Poster 2)

15.00: Refreshment Break

15.30: Session 2 - Mechanisms of tendon injury and pathology
Chair: Mark Thompson (Oxford)

15.30: Invited Speaker: Paul Ackermann (Stockholm) – ‘Neuronal regulation of tendon homeostasis’

16.10: Short Talk: Sture Forsgren (Umeå) – ‘The plantaris tendon shows in the same way as the Achilles tendon itself tendinosis-like morphological features and presence of a non-neuronal cholinergic system in cases with mid-portion Achilles tendinosis’ (Poster 3)

16.30: Invited Speaker: Hazel Screen (London) – ‘Investigating and characterising tendon micromechanics’

17.10: Short Talk: Chavaunne Thorpe (London) - Helical fascicles in energy storing tendons: a mechanism for efficient recoil? (Poster 4 - Poster Prize Entrant)

17.30: Poster Session – with beer, wine & snacks

19.30: Conference Dinner – Sainsbury Centre for Visual Arts
Tuesday, 4th September

09.00: Session 3 – Genetics, tendon cell biology and markers of injury
Chair: Philippa Hulley (Oxford)

09.00: **Invited Speaker:** Bill Ribbans (Northampton) - ‘Achilles Tendinopathy – It’s all in your genes? A surgeon’s perspective’

09.40: **Short Talk:** Jay Dudhia (London) – ‘Fragmentation patterns of tendon extracellular matrix proteins with injury’ (Poster 5)

10.00: **Short Talk:** Elizabeth Canty-Laird (Liverpool) – ‘Gene expression alterations in tendon-derived cells after serial passage in 2D cell culture’ (Poster 6)

10.20: **Short Talk:** Pernilla Eliasson (Linköping) – ‘Initial gene response to mechanical loading in healing rat Achilles tendons’ (Poster 7 – **Poster Prize Entrant**)

10.40: Refreshment Break

11.00: Poster Session

12.15: Lunch

13.00: Session 4 - Tendon injury, therapy and repair (1) – understanding mechanisms
Chair: Peter Clegg (Liverpool)

13.00: **Invited Speaker:** Andrew Carr (Oxford) – ‘Understanding mechanisms of tendon ageing, degeneration and pain informs novel therapies’

13.40: **Short Talk:** Jennifer Tilley (Oxford) – ‘Structural adaptations in rotator cuff tendons associated with degeneration, tearing and treatment highlight the need for improved tendon diagnostics and early intervention strategies’ (Poster 8 – **Poster Prize Entrant**)

14.00: **Short Talk:** Neil Millar (Glasgow) – ‘Interleukin 33 is a key tissue alarmin in human tendinopathy’ (Poster 9 - **Poster Prize Entrant**)

14.20: **Invited Speaker:** Jeremy Lewis (London) – ‘Rotator cuff tendinopathy: A model for the continuum of pathology and related management’

15.00: Refreshment Break

15.30: Session 5 - Tendon injury, therapy and repair (2) – models and new therapies
Chair: Hazel Screen (London)

15.30: **Invited Speaker:** Kathe Derwin (Cleveland) – ‘Scaffold technologies for rotator cuff repair’

16.10: **Short Talk:** Jennifer Paxton (Birmingham) – Engineering the enthesis - formation of a multiphase tissue transition in vitro (Poster 10)

16.30: **Short Talk:** Nelly Andawaris-Puri (New York) – ‘Murphy Roths Large (MRL) mice exhibit improved tendon healing after laceration and fatigue loading’ (Poster 11)

16.50: **Invited Speaker:** Chris Evans (Boston) – ‘Gene therapy approaches to tendon repair’

17.30: Award of Prizes/Closing Remarks/End of symposium