

**Free Paper 9 Basic Science & Biomechanics I** - 22 March 2024 | 17:06 – 18:00 | Island Ballroom

**Moderators:** [Cai Siyi, China](#) | [Ming-Hsiao Hu, Taiwan](#) | [Jonathan Tan, Singapore](#)

**Basic Science & Biomechanics I**

17:06 – 17:10	<b>ID6</b> Different MRI-based Vertebral Bone Quality Scores for Bone Mineral Density Assessment in Patients Undergoing Cervical Spine Surgery: A Comparison Study	<a href="#">Zhe Wang, China</a>
17:10 – 17:14	<b>ID11</b> Deep Learning-enhanced Hand Grip and Release Test (DL-HGRT) for Degenerative Cervical Myelopathy: Shortening Assessment Duration to 6 Seconds	<a href="#">Yongyu Ye, China</a>
17:14 – 17:18	<b>ID27</b> Myth or Fact: 3D-printed Commercial Prosthesis is Superior Than Titanium Mesh Cage in Anterior Cervical Corpectomy and Fusion?	<a href="#">Lei Kuang, China</a>
17:18 – 17:22	<b>ID36</b> Causal Relationships Between the Immune Cells and Cervical Disc Disorders: An Univariable and Multivariable Mendelian Randomization	<a href="#">Si Cheng, China</a>
17:22 - 17:30	Q & A	

**Basic Science & Biomechanics II**

17:30 – 17:34	<b>ID180</b> Pathological and Molecular Regulation Characteristics of Ossified Nuchal Ligament With Different Sections	<a href="#">Chong Chen, China</a>
17:34 – 17:38	<b>ID186</b> Silicate Nanoplatelets Promotes Neuronal Differentiation of Neural Stem Cells and Restoration of Spinal Cord Injury	<a href="#">Tengfei Zhao, China</a>
17:38 – 17:42	<b>ID192</b> Biomechanical Evaluation of an Artificial Cervical Vertebra and Intervertebral Complex in a Goat Model	<a href="#">Jinghao Zhao, China</a>
17:42 – 17:46	<b>ID212</b> Exosomal miR-140-5p Inhibits Osteogenesis by Targeting IGF1R and Regulating the mTOR Pathway in Ossification of the Posterior Longitudinal Ligament	<a href="#">Yifan Tang, China</a>
17:46 – 18:00	Q & A	