

# Healthcare Technology SCIENTIFIC CONFERENCE UMS-UM



**19** DEC



**GALERI AZMAN HASHIM,  
UNIVERSITI MALAYSIA  
SABAH (UMS)**



**AM  
08 - 05  
PM**

**RM30 per participant!**



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**Dr Ikhwan Nasir +6012-282 3923**

**Ms Ainisia Sindam +6010-900 4237**

**Ms Rabiatul +6013-964 8767**

Healthcare Technology  
**SCIENTIFIC CONFERENCE**  
**UMS-UM**

**Neuroimmune Interactions in Osteoarthritis Pain**

**Machine Learning Techniques in Disease Diagnosis**

**Role of Biological Products in Disease Treatment**

**Monocyte Migration in Response to Inflammatory Signals**

**Influence of Inflammatory Cytokines on  
Mesenchymal Stromal Cell Behaviour**

**The role of stem cells in tendon repair and regeneration**

**The Innovation of Regenerative Medicine in  
Musculoskeletal Disorders**



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# Healthcare Technology **SCIENTIFIC CONFERENCE**

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# CPD

**Points  
will be awarded**



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|                                  |   |   |
|----------------------------------|---|---|
| <b>COURSE</b>                    | <b>UMS-UM Healthcare Technology Scientific Conference</b>   |   |
| <b>DATES</b>                     | <b>19<sup>th</sup> December 2024</b>  |   |
| <b>VENUE</b>                     | <b>Galeri Azman Hashim, Universiti Malaysia Sabah</b>   |   |
| <b>SPEAKERS AND FACILITATORS</b> |   |   |
| <b>SCHEDULE</b>                  | <b>TOPICS</b>   | <b>SPEAKERS/ FACILITATORS</b>                       |
|                                  |   |   |
| <b>0800 - 0900</b>               | <b>REGISTRATION</b>   |   |
| 0900 - 0910                      | Opening speech  | Assoc. Prof Dr. Shahril Bin Yusof                   |
| 0910 - 0935                      | Keynote lecture<br>Topic: Advances in regenerative medicine relating to musculoskeletal Sciences  | Prof. Dr Tunku Kamarul Zaman<br>Tunku Zainol Abidin |
| 0935 - 0950                      | Plenary 1<br>Topic: AI in radiology: a technology that assists technology   | Dr Mohamad Shahrnizam Awang Setia                   |
| 0950 - 1000                      | Break session   |   |
| 1000 -1010                       | Pitching Session 1<br>Topic: Breaking Barriers in Osteoarthritis Diagnosis: The Power of Machine Learning and Molecular Structure   | Dr. Atiqah Ab Aziz                                  |
| 1010 -1020                       | Pitching Session 2<br>Topic: The Study of the Effects of Hypoxia-Mimicking Agent Roxadustatin Inhibiting Apoptosis in Human Chondrocytes Derived from Osteoarthritic Cartilage                        | Peggy Kong  |
| 1020- 1030                       | Pitching Session 3<br>Topic: Phenotypic and Molecular Characterization of Monocyte Differentiated Macrophage Treated with Mesenchymal Stromal Cells Derived Secretome                                 | Tarini Veerappan                                    |
| 1030 -1040                       | Pitching Session 4<br>Topic: The Effects of Hypoxia-Inducible Factor 1-Alpha and Cyclic Uniaxial Stretching on Tenogenic Differentiation Potential of Human Adipose-Derived Mesenchymal Stromal Cells | Amirah Mahfuzah Zulkifli                            |
| 1040 - 1055                      | Q & A Session (Pitching session 1-4)  |   |

|           |   |  |
|-----------|---|--|
| 1055-1100 | Break Session   |  |
| 1100-1115 | Lecture Series 1<br>Topic: Interplay between cartilage and subchondral bone in osteoarthritis   | Dr. Chong Pan Pan                      |
| 1115-1130 | Lecture Series 2<br>Topic: Advancement in Arthroplasty: Trends and development in hip and knee Arthroplasty technology  | Dr.Elsonmond Vick Bin Duin             |
| 1130-1145 | Lecture Series 3<br>Topic: Harnessing Stem Cells for Advanced Tendon Tissue Engineering   | Dr Tan Sik Loo                         |
| 1145-1200 | Lectures Series 4<br>Topic: Advancement Review in Orthopedic Sports Surgery   | Dr Syed Nashraf Shah Bin Said Mohutham |
| 1200-1215 | Q & A (Lectures series 1-4)   |  |
| 1215-1400 | Lunch Break   |  |
| 1400-1410 | Pitching Session 5<br>Topic: Effects of Uniaxial Cyclic Strain and Adiponectin on Tenogenic Differentiation of Mesenchymal Stromal Cells in The Presence of Interleukin-1 Beta or Tumor Necrosis Factor Alpha | Shaliny Hari Rama Krishnan             |
| 1410-1425 | Pitching Session 6<br>Topic: Monocytes migration in response to aseptic loosened-periprosthetic tissue inflammatory mediators in xenograft transplanted NOD-SCID mice model                                   | Nur Ashiqen Mohd Noh                   |
| 1425-1435 | Pitching Session 7<br>Topic: The anti-inflammatory effects of platelet-derived extracellular vesicles on interleukin 1 beta induced osteoarthritic chondrocytes   | Nur Hidayah Hassan                     |
| 1435-1450 | Q & A Session (Pitching session 5-7)  |  |
| 1450-1500 | Break Session   |  |
| 1500-1515 | Lecture Series 5<br><br>Topic: The Role of the Nervous and Immune Systems in Osteoarthritis Pain; Mechanisms and Therapeutic Approaches   | Dr. Krisnamurithy Genasan              |
| 1515-1530 | Q & A Session (Lecture series 5)  |  |
| 1530      | End of conference   |  |