

# The 17th ISEI Symposium - ISEI 2026 Tokyo - SCIENTIFIC PROGRAM

Version as of June 15, 2026 - Updated regularly

## Day 2 - Friday, 28 August

### Session 1 - Immune mechanisms & regulation

<b>Chair</b>	<b>Chin Leong Lim</b>	Nanyang Technological University VinUniversity	<a href="#">Link</a>
	<b>Cláudia Regina Cavaglier</b>	University of Campinas	<a href="#">Link</a>
	Emily LaVoy	T cell metabolism and function differs by cardiorespiratory fitness level and with acute exercise	
	Heejae Lee	YIA*	High-intensity interval training (HIIT) induces persistent and divergent remodelling of T cell immunity
	Julian Moser	YIA	Acute exercise and extracellular vesicle responses: Immunological and methodological insights from a systematic review sub-analysis
	Ena Yoshida	YIA	Leukocyte, interleukin-6, and chemokine responses to moderate-intensity aerobic exercise during the menstrual and luteal phases

### Session 2 - Host defence, infection & vaccination

<b>Chair</b>	<b>Richard J. Simpson</b>	The University of Arizona	<a href="#">Link</a>
	<b>Nicholas West</b>	Griffith University	<a href="#">Link</a>
	James Turner	The influence of latent Cytomegalovirus infection on adipose tissue in healthy men	
	Katharina Leuchte	Acute HIIT widely modifies immunity: Dynamics of virus-specific CD8+ T cells, immunomodulatory serum proteins and chemokine receptor expression on lymphocytes	
	Seiichi Sato	Mechanical lung expansion triggers antiviral innate immune responses in vivo	
	Tung-Lin Lu	YIA	Effects of long-term glutamine supplementation on gut microbiota during training periodization of cross-country skiers

\* YIA: candidates of the young investigator award

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## Session 3 - Inflammation & resolution

<b>Chair</b>	<b>Brandt Pence</b>	University of Memphis	<a href="#">Link</a>
	<b>Yuri Hosokawa</b>	Waseda University	<a href="#">Link</a>
	Ivan Bautmans	Strength training affects intracellular stress response in peripheral immune cells	
	Masato Kawashima	Neutrophil depletion alters early repair responses and delays skeletal muscle regeneration following crush injury	
	Cong Wu	YIA Disuse-induced muscle atrophy impairs inflammatory regulation and delays skeletal muscle regeneration following acute injury	
	Zong-Jia Wu	YIA Reduced glucose availability elevates electrical pulse stimulation-induced oxidative stress in C2C12 myotubes	

## Session 4 - Methods, omics & systems approaches

<b>Chair</b>	<b>Jonathan Peake</b>	Queensland University of Technology	<a href="#">Link</a>
	<b>Barbara Wessner</b>	University of Vienna	<a href="#">Link</a>
	Nicholas West	Divergent peripheral (muscle) and systemic (whole blood) immune gene expression following prolonged intense exercise: A spatial and transcriptomic analysis	
	Jonathan Peake	Exercise-induced muscle damage and its effects on the serum proteome.	
	Jongbok Lee	Precision-prescribed HIIT at 110% RCP abolishes plasma multi-omic heterogeneity across training backgrounds	
	Timothy M. Kistner	CITE-seq reveals rare immune cell populations while maintaining concordance with flow cytometry in exercise-mobilized PBMCs	

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## Day 3 - Saturday, 29 August

### Session 5 - Nutrition, metabolism & immunometabolism

<b>Chair</b>	<b>Emily LaVoy</b>	University of Houston	<a href="#">Link</a>	<a href="#">Link 2</a>
	<b>Masashi Miyashita</b>	Waseda University	<a href="#">Link</a>	<a href="#">Link 2</a>
	Ana Maria Teixeira	Lifelong exercise is associated with metabolic capacity and remodeling in cytotoxic and unconventional T cells		
	Ruheea Taskin Ruhee	Short-term sulforaphane intake modulates exercise-induced oxidative stress in healthy adults		
	Therdtham Chawrai	YIA The effects of four weeks of ketone ester supplementation on systemic and adipose tissue inflammation in healthy older adults: a randomised controlled trial		
	Emily C. Fraschetti	YIA Feeding recovery: Post-exercise nutrition influences immune cell dynamics		

### Session 6 - Ageing, growth & development

<b>Chair</b>	<b>Barbara Wessner</b>	University of Vienna	<a href="#">Link</a>	
	<b>Zsolt Radák</b>	Hungarian University of Sports Science	<a href="#">Link</a>	
	Zsolt Radák	Exercise slows epigenetic aging, while pro-inflammatory bacterial species in the gut accelerate it		
	Paulo F. de Almeida-Neto	Biological maturation modulates neutrophil mobilization and IL-8 responses following repeated sprint exercise in adolescent athletes		
	Yishan Tong	YIA Effects of 3-(4-hydroxy-3-methoxyphenyl)propionic acid on regulating oxidative stress and muscle fiber composition		
	Xiang Pan	YIA Gut microbiota and childhood mental health through a physical-fitness versus physical-activity decoupling lens: a microbiota–gut–brain study in children aged 6–9 years		

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## Session 7 - Lifestyle & metabolic disease

<b>Chair</b>	<b>Ana Teixeira</b>	University of Coimbra	<a href="#">Link</a>
	<b>Llion Roberts</b>	Griffith University	<a href="#">Link</a>
	Cláudia Regina Cavaglieri	Regular physical activity and reduction of neurogenic obesity may mitigate premature immunosenescence in people with spinal cord injury	
	Brian J. Andonian	Exercise training and hypocaloric diet modulate markers of lymphocyte aging and inflammation in older adults with rheumatoid arthritis	
	Gabriela Mandú Gimenes	YIA Effect of gut microbiota depletion on glucose tolerance and T lymphocytes profile in a model of non-obese type 2 diabetes	
	Chuwen Xue	YIA Metabolic improvements in obese mice induced by combined black ginger extract supplementation and endurance exercise	

## Session 8 - Cancer & tumor immunology

<b>Chair</b>	<b>Cláudia Regina Cavaglier</b>	University of Campinas	<a href="#">Link</a>
	<b>James Turner</b>	The University of Birmingham	<a href="#">Link</a>
	Richard J. Simpson	Exercise as an immune adjuvant for allogeneic cell therapies: An overview of the Allo-X trial	
	Gitte Holmen Olofsson	High-intensity interval training enhances immunotherapy efficacy in metastatic non-small cell lung cancer: results from the randomized HI AIM trial with integrated translational analyses	
	Forrest L. Baker	Exercise-expanded $\gamma\delta$ T cells show in vitro and in vivo anti-myeloma potential and daratumumab-mediated ADCC	
	Moe Sugasaki	YIA Inflammatory cytokine interleukin-1 induced bone formation in the model of bone metastasized cancer	

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**Day 4 - Sunday, 30 August**

**Session 9 - Environmental & physiological stress**

<b>Chair</b>	<b>Kumpei Tanisawa</b>	Waseda University	<a href="#">Link</a>
	<b>Paulo Francisco de Almeida-Neto</b>	Federal University of Rio Grande do Norte Natal	<a href="#">Link</a>
	Chin Leong Lim	Immune responses during physical exertion under heat stress: implications on the mechanisms of heat stroke	
	Llion A Roberts	Inflammatory mediated adaptation to blood flow restricted resistance exercise: A state of the art	
	Masaki Inada	Differential gene responses for slow-twitch and fast-twitch muscles in muscular atrophy and hypertrophy	
	Sandro M. Hirabara	Determination of metabolic parameters and lymphocyte profile in military police officers with metabolic syndrome	

**Session 10 - Clinical issues**

<b>Chair</b>	<b>Ryoichi Nagatomi</b>	Tohoku University	<a href="#">Link</a>
	<b>Eisuke Ochi</b>	Hosei University	<a href="#">Link</a>
	John Sullivan	YIA	Exercise mobilized T-cells upregulate CD137 after blinatumomab stimulation and have enhanced effector function against B-ALL
	Randy Chou	YIA	Exercise-expanded $\gamma\delta$ T cells show enhanced responsiveness to bispecific antibody redirection in hematological malignancies
	Ken-ichi Okada	Effects of adjuvant /neoadjuvant chemotherapy combined with exercise therapy in pancreatic cancer	
	Michiya Tanimoto	Activities of the cancer and exercise working group: Bridging evidence and practice in exercise oncology	