



Name **Shin-Da Lee**
Current Positions Professor in Rehabilitation Science
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Education

2001 Ph.D., Department of Physical Therapy & Exercise Science, State University of New York at Buffalo, USA
1999 M.S., Department of Physical Therapy & Exercise Science, State University of New York at Buffalo, USA
1993 B.S. in Physical Therapy, Department of Rehabilitation Medicine, Kaohsiung Medical College, Taiwan

Expertise

Rehabilitation
Rehabilitation Innovation
Exercise Science
Aging-related diseases

Research Interests

Cardiac Research in Sleep/ Sleep Apnea/ Hypoxia/Aging
Neural Research in Hypertension/ Diabetes
Stroke & Neural Research
Rehabilitation Device Design
Exercise Research
Rehabilitation Innovation

Selected Grants:

Protective mechanism of Exercise therapy/Elamipretid on thoracic radiation-induced heart damage: Mitochondrial Respiration, Biogenesis, Dynamics, and Mitophagy
Molecular Mechanism of Aerobic Exercise Training and/or Frequency Following Response on Anti-neuronal aging and Alzheimer's disease

Selected Publications

Lin YY,..., Lee SD*. Exercise training attenuates cardiac inflammation and fibrosis in hypertensive ovariectomized rats. *J Appl Physiol* (1985). 2020 Apr 1;128(4):1033-1043.
Lin YY, Lee SD. Cardiovascular Benefits of Exercise Training in Postmenopausal Hypertension. *Int J Mol Sci*. 2018 Aug 25;19(9):2523.
Mahalakshmi B, Maurya N, Lee SD*, Bharath Kumar V*. Possible Neuroprotective Mechanisms of Physical Exercise in Neurodegeneration. *Int J Mol Sci*. 2020 Aug 16;21(16):5895.

Selected Patents

1. Gait rehabilitation machine and method of using the same. TW. CN. USA. JP. EU
2. System for training visual acuity TW
3. Hearing training device TW
4. Sitting Type Spinal Traction and Disc Massage Apparatus TW
5. Joint mobilization apparatus TW