

Application Description

BIOPAC research and education solutions can be used for a wide-range of biology studies—human, animal or tissue, in vivo or in vitro. For researchers conducting biology experiments, BIOPAC provides a full line of proven, world class MP hardware platforms that include powerful, flexible *AcqKnowledge* data acquisition and analysis software. Complete systems are available to support both simple and extremely complex experiments on humans and animals, with wired, wireless, and MRI compatible options.

Advanced Features

- 12-Lead ECG Recordings
- Active Electrodes and Fine Wire ECG
- Advantages of Laser Doppler Flowmetry
- SpO2 Analysis
- MRI Small Animal Monitoring
- And [More](#)

Watch [Automated Analysis Tutorials at the BIOPAC Website](#)

Selected Research Citations Below

[Search online](#) for more than 8,830 BIOPAC citations for *Biology*

[Prediction of Self-Perceived Stress and Arousal Based on Electrodermal Activity](#)

Tomppa Pakarinen, et al (2019). 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Berlin, Germany, pp. 2191-2195.

[Sexual dimorphism in human arm power and force: implications for sexual selection on fighting ability](#)

Jeremy S. Morris, et al (2020). Journal of Experimental Biology, doi: 10.1242/jeb.212365

[Traction reinforcement in prehensile feet of harvestmen \(Arachnida, Opiliones\)](#)

Jonas O. Wolff, et al (2019). Journal of Experimental Biology, doi: 10.1242/jeb.192187

[Analysis of Tracheal and Pulmonary Continuous Adventitious Respiratory Sounds in Asthma](#)

Manuel Lozana-Garcia, et al (2019).. 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Berlin, Germany, pp. 4930-4933.

[Increased strength is associated with lower trunk muscle activation during loaded back squats and dynamic body weight jumps](#)

David R. Clark, et al (2020). Translational Sports Medicine, Vol 3, issue 1

[Comparing targeted thrust manipulation with general thrust manipulation in patients with low back pain. A general approach is as effective as a specific one. A randomised controlled trial](#)

Christopher J. McCarthy, et al (2019). BMJ Open Sport & Exercise Medicine

[Leptin Is Not Essential for Obesity-Associated Hypertension](#)

J. von Schnurbein, et al (2019). Obesity Facts, Vol 12, No 4

[Endurance training restores spatially distinct cardiac mitochondrial function and myocardial contractility in ovariectomized rats](#)

Ellis Aguilar Morra, et al (2019). Free Radical Biology and Medicine, Vol 130