Techniques For Predicting Immunization Responses

Tech ID: 34512 / UC Case 2022-119-0

TECHNOLOGY DESCRIPTION

UCSF investigators have demonstrated that physiological metrics from an off-the-shelf wearable device were associated with the immunization response in individuals in the case of COVID-19 immunization. This approach can be extended to prediction of immune responses for other immunizations.

RELATED MATERIALS

▶ Mason, A. E., Kasl, P., Hartogensis, W., Natale, J. L., Dilchert, S., Dasgupta, S., Purawat, S., Chowdhary, A., Anglo, C., Veasna, D., Pandya, L. S., Fox, L. M., Puldon, K. Y., Prather, J. G., Gupta, A., Altintas, I., Smarr, B. L., & Hecht, F. M. (2022). Metrics from Wearable Devices as Candidate Predictors of Antibody Response Following Vaccination against COVID-19: Data from the Second TemPredict Study. Vaccines, 10(2), 264.

PATENT STATUS

Patent Pending

CONTACT

David C. Fung

david.fung@ucsf.edu

tel: 415-502-1640.

OTHER INFORMATION

KEYWORDS

COVID-19, antibody response, heart rate, heart rate variability, mRNA vaccines, skin temperature, sleep, wearable device, immunization

CATEGORIZED AS

- **Biotechnology**
  - Health
- **Medical**
  - Devices
  - Diagnostics
  - Disease: Infectious Diseases
  - Other
  - Research Tools
  - Vaccines

RELATED CASES

2022-119-0

ADDRESS

UCSF

Innovation Ventures

600 16th St, Genentech Hall, S-272,

San Francisco,CA 94158

CONTACT

Tel:

innovation@ucsf.edu

https://innovation.ucsf.edu

Fax:

CONNECT

Follow Connect

© 2026, The Regents of the University of California

Terms of use Privacy Notice