



Assistant Professor of
Neurotechnology

Neuro-X Institute
Campus Biotech
Genève, CH



NAKO

NAKATSUKA

Innovating
Biosensors for
Human Health

Education & Training

DOCTOR OF PHILOSOPHY

2012 - 2017
Physical Chemistry
UCLA - USA

POSTDOCTORAL SCHOLAR

2018-2018
UCLA - USA

POSTDOCTORAL FELLOW

2018-2020
ETHZ
Zurich, Switzerland

SENIOR SCIENTIST

2020 - 2024
ETHZ
Zurich, Switzerland

ASSISTANT PROFESSOR OF NEUROTECHNOLOGY

2024 - Present
EPFL,
Lausanne, Switzerland

Profile

Prof. Nako Nakatsuka is an assistant professor at EPFL, where she leads the Chemical Nanotechnology Laboratory (CHEMINA). Her research focuses on developing advanced biosensors capable of detecting real-time molecular changes in the brain, particularly neurotransmitters, which are essential for diagnosing and treating neurological disorders and mental health conditions. Prof. Nakatsuka has been honored with awards like the 2023 Prix Zonta and the 2024 Fondation Philanthropique Famille Sandoz Prize.

Articles

Aptamer-Functionalized Interface
Nanopores Enable Amino Acid-Specific
Peptide Detection

Aptamer Renaissance for Neurochemical
Biosensing

Press

C&en Chemical & Engineering News
Talented 12 “INNOVATING NANOSCALE
BIOSENSORS FOR HUMAN HEALTH”



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[CHEMINA](https://www.epfl.ch/research/chemical-nanotechnology-laboratory/)



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