



Assistant Professor of  
Neurotechnology

Neuro-X Institute  
Campus Biotech  
Genève, CH

## 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



**NAKO**

**NAKATSUKA**

**Innovating  
Biosensors for  
Human Health**

### 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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