Research Resources

These websites were found by John Bartlit. All of these websites are related to "electronic nose" technology. The brief summaries were written by Jessie Lawrence.

"Computers That Smell: Intel's Neuromorphic Chip Can Sniff Out Hazardous Chemicals": This is an article on Intel's Newsroom site about Intel-connected research developing a chip that can learn and recognize hazardous chemicals, even with noise and occlusion. https://newsroom.intel.com/news/computers-smell-intels-neuromorphic-chip-sniff-hazardous-chemicals/#gs.jsh6ql

"Environmental Odors and the Physiology of the Sense of Olfaction": This is a slide presentation from ATSDR on physiological responses to odors and ATSDR working with communities on odor responses, including the concept of odor diaries. https://www.atsdr.cdc.gov/odors/docs/Environmental%20Odors%20and%20The%20Physiology%20of%20the%20Sense%20of%20Olfaction.pdf

"Portable 'Digital Nose' Can Identify Just About Any Smell You Throw At It": This is a brief 2017 article about a French company called Aryballe and its Neose product, a mobile digital nose that can detect up to 350 different smells in 15 seconds. https://www.digitaltrends.com/cool-tech/digital-nose-smell-ces-2017/

"Scientists Decode How the Brain Senses Smell": NYU scientists identify how a smell is processed through brain cells in a study of mice. https://medicalxpress.com/news/2020-06-scientists-decode-brain.html

Products:

- Aryballe: https://aryballe.com/solutions/device-solutions/
- Odosense: https://oizom.com/product/odosense-odour-monitoring-system/
- OMX: https://www.odormonitor.com
- eNose: https://www.enose.nl/rd/technology/