

Swiss company Plair revolutionizes air quality monitoring

Geneva-based Plair SA achieves first accurate, automatic and real-time pollen monitoring per species, revolutionizing the ability to prevent hay fever and improve quality of life.

Geneva, Switzerland – Plair’s particle analyzers detect and at the same time instantly identify pollen species with outstanding precision of up to 99% and with sensitivity of one particle per cubic meter, 24 hours per day, all year round. Plair provides full-spectrum solutions with its detector, Particle Analyzer PA-300, which comprises proprietary laser-based technology, compound libraries, data processing and an online dashboard. It outperforms both state-of-the-art analytical techniques and all current commercialized instruments. Until now, this level of performance and versatility had never been reported. The users of Plair’s detector can also develop their own compound libraries due to its flexible technology.

In 2015, the Swiss Federal Office of Meteorology and Climatology (MeteoSwiss), a leading global reference in the field, commissioned and acquired its first PA-300, serving to demonstrate the particle analyzer’s performance and dependability in real operating conditions. MeteoSwiss experts have since established PA-300’s ability to measure and distinguish several common pollen species instantaneously and autonomously. In addition, PA-300 has shown it can also discriminate pollen from other particulates, such as air pollutants.



According to Dr. Bernard Clot of MeteoSwiss: “After years of hope and tests, we are glad to have Plair’s PA-300, a system that can revolutionize airborne pollen observations, with its automatic and real-time monitoring. Compared to the current standard, which still relies on particle collection and time-consuming manual pollen identification, it offers much better detection through a higher sampling. The possibility of detecting different kinds of particles simultaneously opens up a huge field for applications.”

Dr. Denis Kiselev, CEO and Co-Founder of Plair SA, stated: “We were stunned by the outstanding performance of our PA-300, by its ability to quantify and identify pollen in real time with such accuracy. We are pleased that our system meets client needs and provides exactly the solution required for reliable pollen monitoring. It’s a great accomplishment. This demonstration has already raised a lot of interest worldwide. We are also delighted to announce that IC₃, the Catalan Institute of Climate Sciences, a renowned Spanish research institute, has just selected our product after a thorough public tender process.”

About Plair SA

Headquartered in Geneva, Switzerland, Plair SA provides solutions for instantaneous and autonomous airborne particle detection and identification to address environmental monitoring needs in different industries. Plair holds several patents. Plair SA is an award-winning Swiss company founded in 2014 by Dr. Denis Kiselev and Dr. Svetlana Afonina. Its first prototype was developed at the University of Geneva, supported by NCCR MUST (Molecular Ultrafast Science and Technology) and the INNOGAP proof-of-principle fund (UniTec). Plair is supported by the State of Geneva through FONGIT, by the Federal Commission for Technology and Innovation (CTI), Venture Kick and PLATINN.

For more information, visit the Plair SA website at www.plair.ch.

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