

- TriVersa NanoMate is the latest in chip-based technology from Advion that combines the strengths of liquid chromatography, mass spectrometry, fraction collection, and chip-based infusion in one integrated system. It allows researchers to obtain more information from their complex samples than with LC/MS alone.

*"Advion's technology gives you what you want very quickly."*

## School of Chemistry, University of Bristol - Bristol, UK



John Crosby  
Senior Lecturer,  
Organic & Biological Chemistry

Research focus:  
Proteomics  
Noncovalent Interactions -  
Ligand Screening

Mass spectrometers:  
AB SCIEX QSTAR  
Bruker 7T FTICR

Customer since: 2004

No. of TVNM: 2

**Q:** What is the focus of your lab's research?

From drug-sized molecules to fragments, we analyze a little bit of everything. My primary research focuses around discovering the structure of proteins including enzyme structure and function in the development of antibiotics.

In addition, we have a collaboration with UCB, a global pharma focused on central nervous system and immunology disorders, involving library screening.

**Q:** Why did you incorporate the TriVersa NanoMate® (TVNM) into your laboratory?

We have a NanoMate 100 and a TriVersa NanoMate. It is reasonably well-known that you need nanoESI for noncovalent interactions - ligand screening, but it was essential to my research to speed up and to automate the process. I had watched too many demonstrations that involved pulled capillaries, and I knew it would drive us crazy. A second instrument was absolutely vital to meet the needs of our collaboration with UCB.

**Q:** What benefits have you experienced with the TriVersa NanoMate?

The main reason for purchasing the TriVersa NanoMate is its automated nanoESI capability. The added benefit is its ease of use. We act as a service lab to the chemistry department, and often we have inexperienced users with a variety of different samples to be analyzed. The TriVersa makes it easy for users to do what needs to be done, very quickly.

**Q:** To whom would you recommend the TriVersa NanoMate for their research?

I would recommend the TVNM to anyone who is looking for an easy to use nanoelectrospray source, and who would like to automate and to speed up their process.

# Noncovalent Interactions - Ligand Screening

Fast and automated ligand screening using chip-based nanoelectrospray infusion

- No sample-to-sample carryover
- Fast and automated analysis compared to conventional nanoelectrospray

## Comparison of MS Conditions

