

# Supporting Information

## Microfabricated dual sprayer for on-line mass tagging of phosphopeptides

*Michel Prudent,<sup>†</sup> Joël S. Rossier,<sup>‡</sup> Niels Lion<sup>†,§</sup> and Hubert H. Girault<sup>†\*</sup>*

Laboratoire d'Electrochimie Physique et Analytique, Ecole Polytechnique Fédérale de Lausanne, Station 6, CH-1015 Lausanne, Switzerland ; DiagnoSwiss SA, Route de l'Ile au Bois 2, CH-1870 Monthey, Switzerland ; Service Régional Vaudois de Transfusion Sanguine, Rue du Bugnon 27, CH-1005 Lausanne, Switzerland

\*To whom correspondence should be addressed. E-mail: hubert.girault@epfl.ch. Fax: +41 21 693 36 67

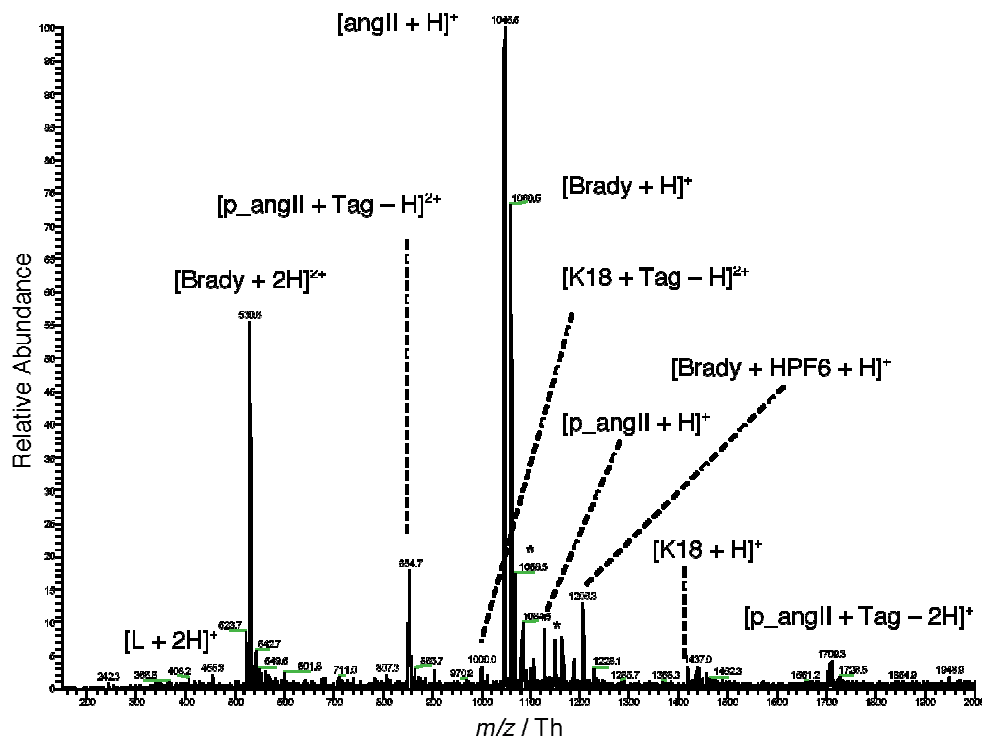
<sup>†</sup> Ecole Polytechnique Fédérale de Lausanne.

<sup>‡</sup> DiagnoSwiss SA.

<sup>§</sup> Service Régional Vaudois de Transfusion Sanguine

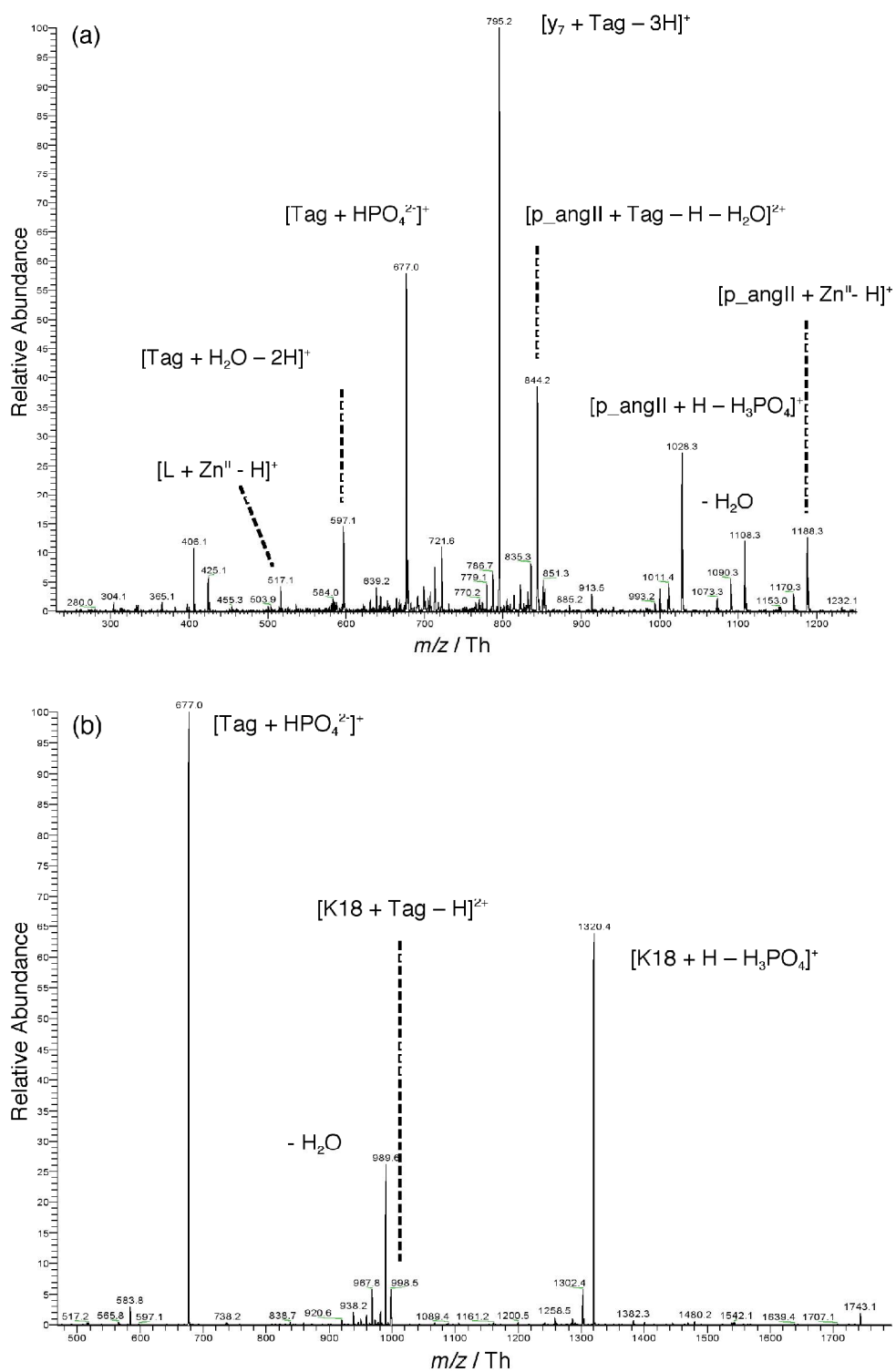
In this supporting information the mass spectrum of the tagging reaction performed ex situ and analyzed with the commercial ESI source is shown, as well MS/MS of the tagged p\_angII and K18.

Figure S-1



**Figure S-1.** Tagging prior to the MS analysis. Mass spectrum of a mixture of bradykinin, angiotensin II, p\_angiotensin II, keratin K18 (50  $\mu\text{M}$  each) and tag (10  $\mu\text{M}$ ) in 50/50 ACN/ $\text{H}_2\text{O}$  (v/v) performed with the commercial electrospray source. \*: adduct of salts. Absolute intensity:  $2.0 \cdot 10^6$  cts.

Figure S-2



**Figure S-2.** Tandem mass spectra of (a)  $[p\_angII + tag - H]^{2+}$ ,  $m/z = 852.8$  Th, at 30% of collision energy and (b)  $[K18 + tag - H]^{2+}$ ,  $m/z = 998.8$  Th, at 25% of collision energy.