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On the cover: Microfluidic on-line hydrogen/deuterium exchange combined with mass spectrometry is a powerful tool for protein structure analysis. Using microfluidics, it can be carried out on-line prior to MS-analysis by delivery of deuterium oxide (red) across a semi-permeable membrane. The deuterium content (blue/purple/red) is controlled via the flow rate. For details, see article by Juan Astorga-Wells et al., pages 10.1074/mcp.M110.0065 1–7.

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