**A two-lane mechanism for selective biological ammonium transport**

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## **Supplementary tables**

## **Supplementary Table 1**: Solid-Supported Membrane Electrophysiology Solutions\*

|  |  |  |
| --- | --- | --- |
| **Substrate** | **Activating** | **Non-Activating** |
| NH4+ | 100 mM KPho | 100 mM KPho |
|  | 100 mM KCl | 300 mM KCl |
|  | 200 mM NH4Cl |  |
| H+ | 100 mM KPho | 100 mM KPho |
|  | 300 mM KCl | 300 mM KCl |
|  | pH5 | pH8 |
| K+ | 100 mM NaPho | 100 mM NaPho |
|  | 100 mM NaCl | 300 mM NaCl |
|  | 200 mM KCl |  |

\*All solutions adjusted to pH 5, 7 or 8 as required. KPho: potassium phosphate buffer, NaPho: sodium phosphate buffer. For the D2O experiments, all the solutions were prepared using D2O instead of water.