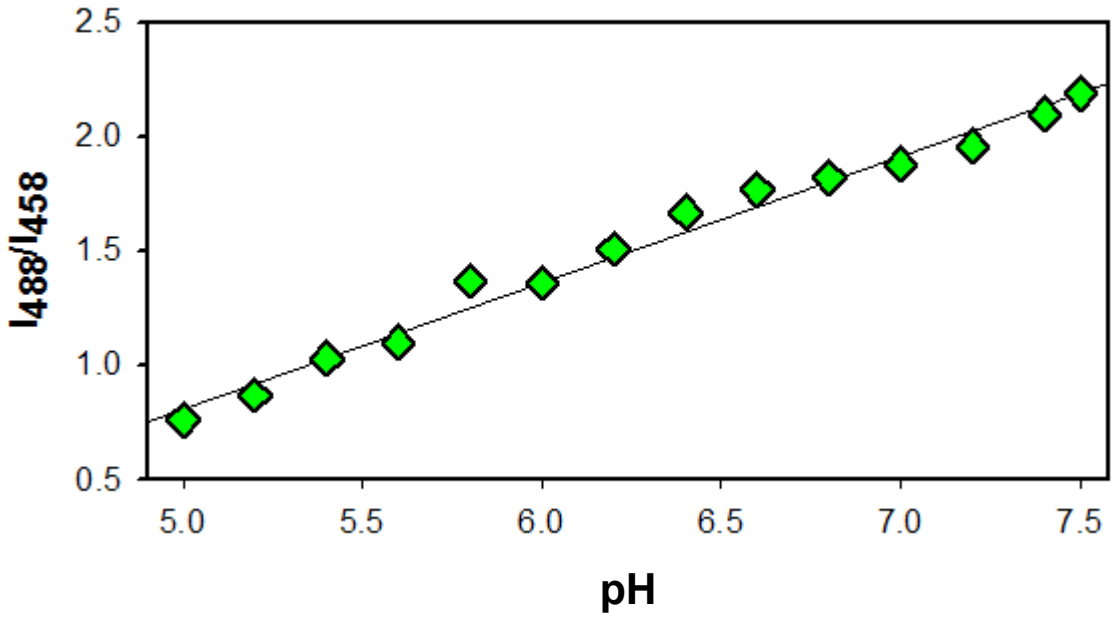
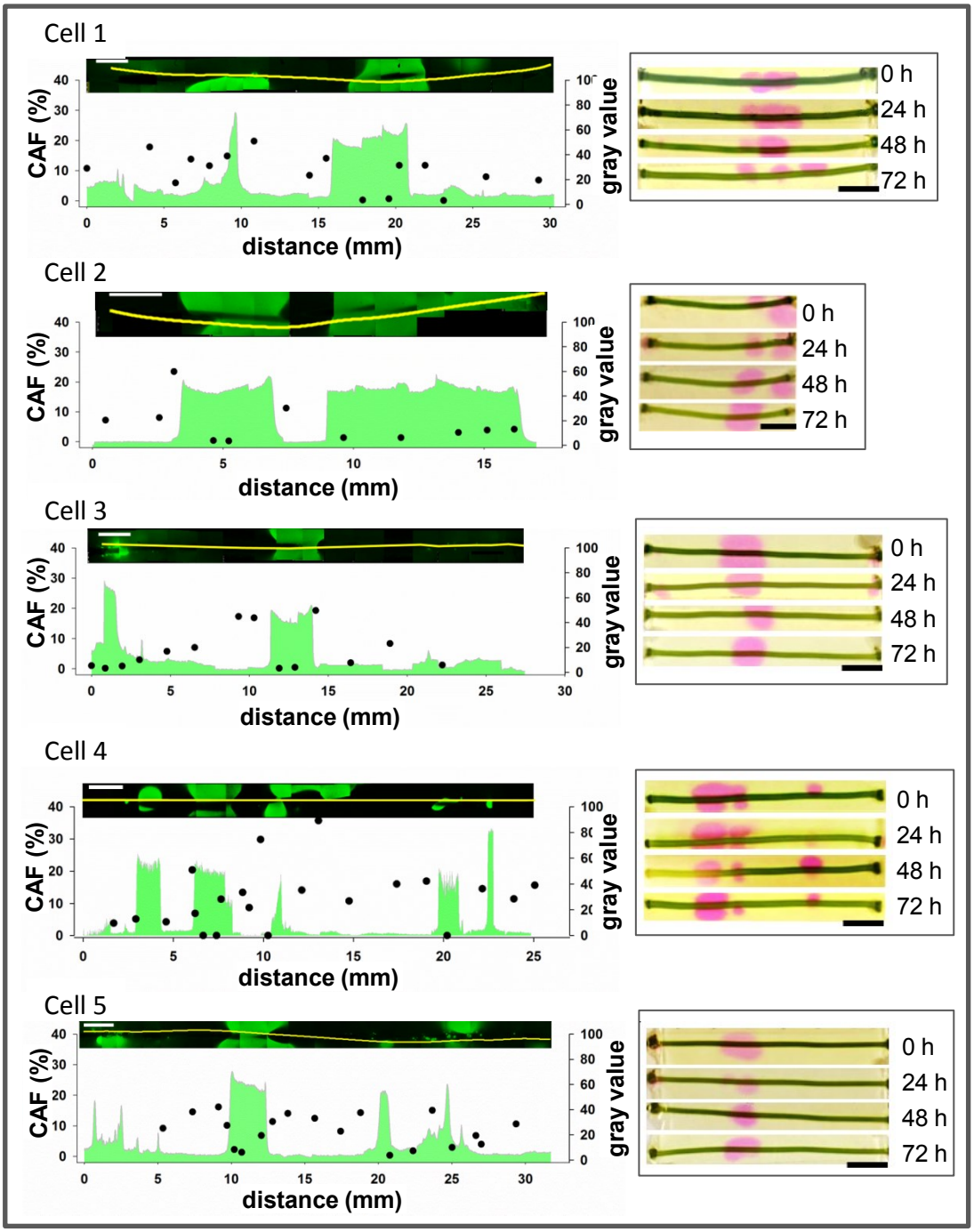



**Supplementary Figure 1**




| Cell | 1 | 2 | 3 | 4 | 5 | 6 (*) | 7 (*) |
|---|---|---|---|---|---|---|---|
| Max. CAF (%) | 19.76 | 23.48 | 19.26 | 35.7 | 16.14 | 22.2 | 27.57 |
| Min CAF (%) | 0.1 | 0.26 | 0.15 | 3.8 | 0.34 | 0.03 | 0.07 |

(*) These cells are illustrated in Fig. 4 and have changing (6) and, respectively, stable (7) pH pattern.

**Supplementary Figure 2**