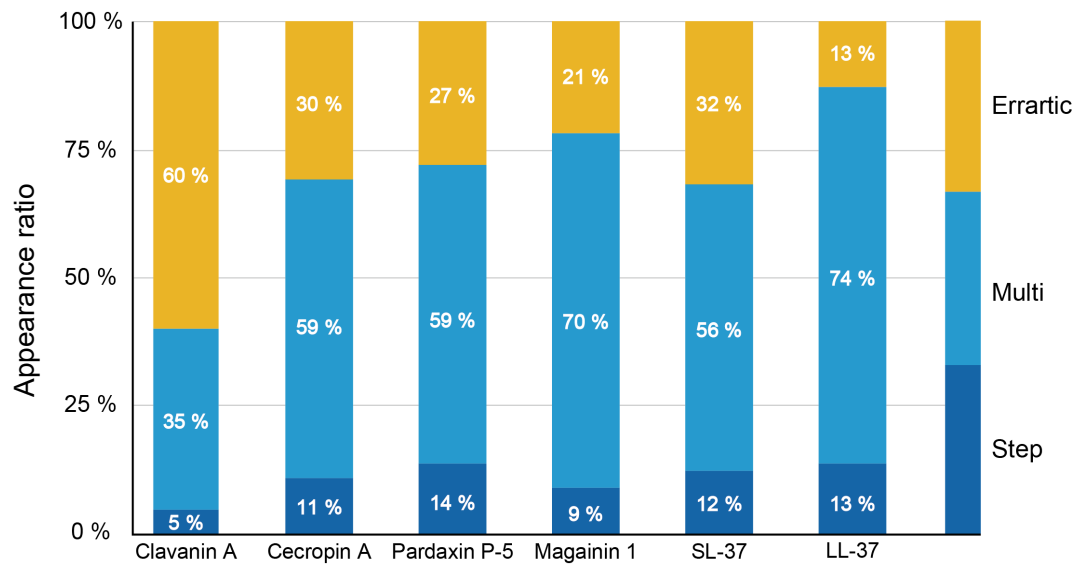*Supporting Information*

Electrophysiological Analysis of Antimicrobial Peptides in Diverse Species
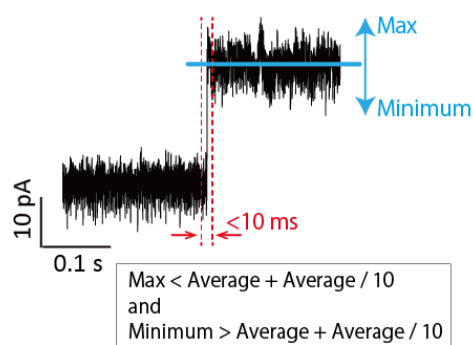
Naoki Saigo, Kayano Izumi and Ryuji Kawano*

Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology (TUAT), 2-24-16 Naka-cho Koganei-shi Tokyo 184-8588 Japan
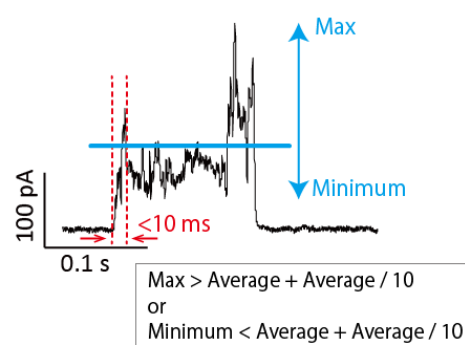
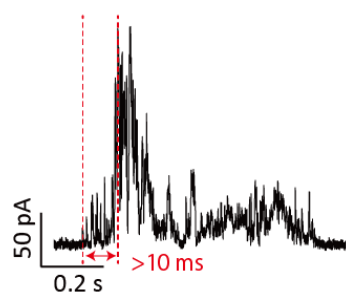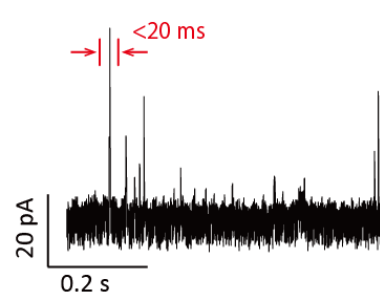**Figure S1.** Signal classification of six AMPs. (All standardized n =243).

Figure S2. Definition for the classification of current signals: a) step-like, b) multi-level, c) erratic, and d) spike. These typical signals were obtained from magainin 1 or LK peptides, as referred from Sekiya *et al Analyst* **2018** (Ref. 24).

Table S1. Four parameters of pore-forming activities of each AMP.

	Clavanin A	Cecropin A	Pardaxin P5	Magainin 1	SL-37	LL-37
Pore stability (%)	40	70	72	80	64	85
Pore diameter (nm)	1.7 ± 0.3	1.1 ± 0.1	1.8 ± 0.1	1.6 ± 0.1	0.9 ± 0.1	1.9 ± 0.2
CF (pC/s)	124 ± 34	139 ± 20	223 ± 29	166 ± 20	87 ± 14	166 ± 20
Pore forming activity	47	1.2	1.4	11	10	5.7