INFLAMMATORY MEDIATOR REGULATION OF TRP CHANNELS **∘**Ф°Са²⁺ Nа °**О**°Са²⁺ Nа O Lipids 🖪 Primary sensory neuron ВК K04632 +p K03915... ිල PUFAs K07413... 5HT K04157 EET Arachidonic acid metabolism K04149 **Ò**cAMP IP3 🍑 Lysophospholipids Mast cell IP3 of 5 ATP DAG **O**DAG Calcium signaling pathway Энрете K04269 K02677... Ca²⁺Na⁺ TRP channels involved in thermal transduction Tissue injury Temperature sensitivity Temperature sensitivity Nonthermal Channel Nonthermal Channel agonists agonists Ca²⁺Na⁺ Ca^{2+} ► Increased transduction/— — → Peripheral excitability sensitization Hypotonic OCapsaicin >42°C ~27°C-42°C a phorbol Lipoxygenase products Resiniferatox<u>in</u> O Menthol <25°C O NADA o _{Icilin} Na⁺, Ca²⁺ ©4 Eucalyptol O Anandamide O Ethanol MAPK signaling pathway °**O**° Cinnamaldehyde <17°C Acidic pH 07 K04519 K04386... Mustard oil >52°C 0 Macrophage Allicin Camphor >33°C o Icilin K03176 O_{2-APB} IP3 K06068 04750 10/23/15 (c) Kanehisa Laboratories