

43. Ji RR, Samad TA, Jin SX, Schmoll R, Woolf CJ: p38 MAPK activation by NGF in primary sensory neurons after inflammation increases TRPV1 levels and maintains heat hyperalgesia. *Neuron* 2002; 36:57-68
44. Jin SX, Zhuang ZY, Woolf CJ, Ji RR: p38 mitogen-activated protein kinase is activated after a spinal nerve ligation in spinal cord microglia and dorsal root ganglion neurons and contributes to the generation of neuropathic pain. *J Neurosci* 2003; 23:4017-22
45. Jin X, Gereau RW 4th: Acute p38-mediated modulation of tetrodotoxin-resistant sodium channels in mouse sensory neurons by tumor necrosis factor-alpha. *J Neurosci* 2006; 26:246-55
46. Mizushima T, Obata K, Yamanaka H, Dai Y, Fukuoka T, Tokunaga A, Mashimo T, Noguchi K: Activation of p38 MAPK in primary afferent neurons by noxious stimulation and its involvement in the development of thermal hyperalgesia. *Pain* 2005; 113:51-60

## ANESTHESIOLOGY REFLECTIONS FROM THE WOOD LIBRARY-MUSEUM

### From “Hog Bean” to “Fowl Murder”: Liebig’s Henbane Advertising Card



Black henbane (*Hyoscyamus niger*) was featured (*low right*) in this Italian-language version of the Poisonous Plant series of trade cards advertising Liebig's Extract of Meat. Henbane's flower (*high left*) and fruit (*high right*) are also depicted on this card as distributed by the company linked to chloroform pioneer Justus von Liebig. Because hogs could eat henbane with apparent impunity, Greek *hyos kyamos* (“hog bean”) passed to Latin as *hyoscyamus* and evolved over centuries into the Italian *giusquiamo*, which is printed twice on this card. Originally, the plant was *henbell* (“death bell”) in Old English, *bell* was replaced with *bane* yielding *henbane* (“death murder”). Later authorities tried to back-interpret *henbane* as “fowl murder.” What remains clear is how dangerous herbal preparations or oils of henbane can be, easily overdosing victims with deadly slurries of scopolamine, atropine, and hyoscyamine. (Copyright © the American Society of Anesthesiologists' Wood Library-Museum of Anesthesiology.)

George S. Bause, M.D., M.P.H., *Honorary Curator and Laureate of the History of Anesthesia, Wood Library-Museum of Anesthesiology, Schaumburg, Illinois, and Clinical Associate Professor, Case Western Reserve University, Cleveland, Ohio. UJYC@aol.com.*