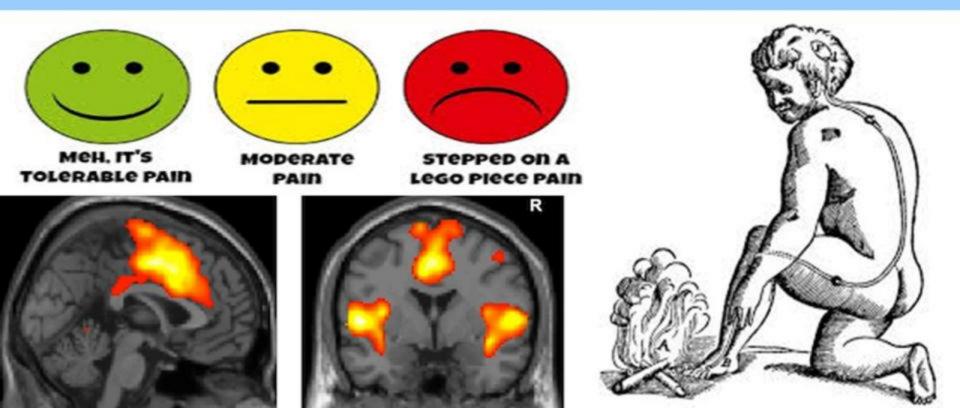
Novel Markers of Pain in Animals

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Background and aim

- Pain is complex!
 - physical and emotional components
 - difficult to assess in humans
 - "How would you describe your pain on a scale of zero-to-ten, where zero is no pain and ten is a lot of pain?" I don't know. It's not as bad as I've heard labor is, but it definitely hurts. A five? Or is that too middling? Seven? Three? Four-pointeight-nine-three-repeating?
- Traditional methods of pain evaluation in animals not ideal?
 - acute vs chronic pain
 - behaviour vs physiology



Background and aim

- Recent advances in pain research
 - neuroimmune mechanisms
 - plasticity
 - fMRI signatures of pain (human)
- AIM: systematic review of literature
 - Identify potential targets for measuring pain in animals (pigs)
 - Huge volumes of literature in human research animal models of human pain