**Appendix 1 – Search Terms**

**PUBMED STRATEGY**

(experimental pain OR acute pain OR sustained pain OR tonic pain OR transient pain OR musculoskeletal pain OR phasic pain OR capsaicin-induced pain OR cutaneous pain OR effusion OR eccentric exercise)

AND

(motor cortex excitability OR transcranial magnetic stimulation OR primary motor cortex OR motor cortex OR motor cortex reorganization OR motor output OR intracortical inhibition OR motor evoked potential OR MEP OR cortical excitability OR sensorimotor cortex OR afferent inhibition OR motor cortex plasticity OR interhemispheric inhibition OR cortical inhibition OR motor excitability OR corticospinal excitability OR motor adaptation OR motor variability OR intracortical facilitation)

**SCOPUS**

ALL ( “experimental pain” OR “acute pain” OR “sustained pain” OR “tonic pain” OR “transient pain” “musculoskeletal pain” OR “phasic pain” OR “capsaicin-induced pain” OR “cutaneous pain” OR “effusion” OR “eccentric exercise” ) AND ALL (“motor cortex excitability” OR “transcranial magnetic stimulation” OR “primary motor cortex” OR “motor cortex” OR “motor cortex reorganization” OR “motor output” OR “intracortical inhibition” OR “motor evoked potential” OR “mep” OR “cortical excitability” OR “sensorimotor cortex” OR “afferent inhibition” OR “motor cortex plasticity” OR “interhemispheric inhibition” OR “cortical inhibition” OR “motor excitability” OR “corticospinal excitability” OR “motor adaptation” OR “motor variability” OR “intracortical facilitation”)

**MEDLINE**

((experimental pain or acute pain or sustained pain or tonic pain or transient pain or musculoskeletal pain or phasic pain or capsaicin-induced pain or cutaneous pain or effusion or eccentric exercise) and (motor cortex excitability or transcranial magnetic stimulation or primary motor cortex or motor cortex or motor cortex reorganization or motor output or intracortical inhibition or motor evoked potential or MEP or cortical excitability or sensorimotor cortex or afferent inhibition or motor cortex plasticity or interhemispheric inhibition or cortical inhibition or motor excitability or corticospinal excitability or motor adaptation or motor variability or intracortical facilitation)).af.

**WEB OF SCIENCE**

TI1 = (experimental pain OR acute pain OR sustained pain OR tonic pain OR transient pain OR musculoskeletal pain OR phasic pain OR capsaicin-induced pain OR cutaneous pain OR effusion OR eccentric exercise)

TI2 = (motor cortex excitability OR transcranial magnetic stimulation OR primary motor cortex OR motor cortex OR motor cortex reorganization OR motor output OR intracortical inhibition OR motor evoked potential OR MEP OR cortical excitability OR sensorimotor cortex OR afferent inhibition OR motor cortex plasticity OR interhemispheric inhibition OR cortical inhibition OR motor excitability OR corticospinal excitability OR motor adaptation OR motor variability OR intracortical facilitation)

TI2 AND TI1

**PSYCINFO**

1 = (experimental pain or acute pain or sustained pain or tonic pain or transient pain or musculoskeletal pain or phasic pain or capsaicin-induced pain or cutaneous pain or effusion or eccentric exercise).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh]

2 = (motor cortex excitability or transcranial magnetic stimulation or primary motor cortex or motor cortex or motor cortex reorganization or motor output or intracortical inhibition or motor evoked potential or MEP or cortical excitability or sensorimotor cortex or afferent inhibition or motor cortex plasticity or interhemispheric inhibition or cortical inhibition or motor excitability or corticospinal excitability or motor adaptation or motor variability or intracortical facilitation).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh]

1 and 2