Appendix A

**Initial Search Terms**

*(endophenotype OR biomarker OR early detection OR risk factor OR vulnerability) AND (autism OR Asperger’s) NOT TI (adhd OR attention deficit-hyperactivity disorder) NOT TI Alzheimer’s NOT SU intervention NOT SU screen time NOT SU service model\* NOT SU epidemiology NOT SU service delivery\* NOT SU animal model\* NOT SU (demographic\* OR socioeconomic\*).*

**Follow-up Search Terms**

*(intermediate phenotype) AND (autism OR Asperger’s)*

*(attention shifting OR set shifting OR disengagement) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability)*

#### *(audition OR auditory OR OR auditory perception OR temporal) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

#### *(emotion or emotional OR empath\*) AND SU (autism) AND (risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

#### *(language OR tone OR acoustic OR cry) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability)*

#### *(perception OR gestalt OR part whole OR top down OR response inhibition OR sensory gating) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability)*

#### *(rapid naming) AND SU (autism OR Asperger’s OR ASD) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

#### *(sensation OR tactile) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR genetic vulnerability) AND SU autism*

#### *(error monitoring OR reward monitoring OR reward anticipation) AND SU (autism) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

*connectivity AND SU (autism) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability*

*(oscillation OR lateralization) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

*(joint attention OR gaze OR social scene OR eye-contact) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

#### *(theory of mind) AND SU (autism OR ASD OR Asperger’s) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability)*

#### *(stereotypy OR repetitive behavior) AND (predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability AND SU (autism OR ASD OR Asperger’s)*

#### *(structural OR MRI) AND predictor OR risk factor OR endophenotype OR biomarker OR familial trait OR genetic liability OR vulnerability AND (autism OR ASD OR Asperger’s)*

**Targeted RDoC Search Terms**

*(“attention to face”) AND (autism)*

*(“attention to eyes”) AND (autism)*

*(“attention to speech”) AND (autism)*

*(vocal prosody) AND (autism)*

*(“biologic\* motion”) AND (autism)*

*(social attention) AND (autism)*

*(“memory for faces”) AND (autism)*

*(“attachment”) AND (autism)*

*(“Strange situation”) AND (autism)*

*(“habituation to faces”) AND (autism)*

*(“face recognition”) AND (autism)*

*(“facial identity after effects”) AND (autism)*

*(“facial expression recognition”) AND (autism)*

*(“reading the mind in the eyes”) AND (autism)*

*(“reading the mind in the voice”) AND (autism)*

*(“preference for faces”) AND (autism)*

*(“preference for voices”) AND (autism)*

*(“speech perception”) AND (autism)*

*(“infant-directed speech”) AND (autism)*

*(“social smiling”) AND (autism)*

*(“still face paradigm”) AND (autism)*

*(“vocal frequency”) AND (autism)*

*(“alexithymia” AND (autism)*

*(“empathy”) AND (autism)*

*(“animacy perception”) AND (autism)*

*(“theory of mind”) AND (autism)*

*(“false belief”) AND (autism)*

*(“joint attention”) AND (autism)*

*(“response to name”) AND (autism)*