**Table e-3:** Full Allen Brain Atlas Results

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| Age Category | Structure ID | Structure Category | Equivalent Allen Brain Structures | FWE P-value |
| 1 | Allen:10225 | IPC\_posteroventral (inferior) parietal cortex | Allen:10225;Allen:10214 | 0.003 |
| 1 | Allen:10209 | S1C\_primary somatosensory cortex (area S1, areas 3,1,2) | Allen:10209 | 0.008 |
| 1 | Allen:10163 | M1C\_primary motor cortex (area M1, area 4) | Allen:10163;Allen:10162 | 0.013 |
| 1 | Allen:10252 | ITC\_inferolateral temporal cortex (area TEv, area 20) | Allen:13324;Allen:10252 | 0.017 |
| 1 | Allen:10208 | PCx\_parietal neocortex | Allen:10208 | 0.019 |
| 1 | Allen:10173 | DFC\_dorsolateral prefrontal cortex | Allen:10173 | 0.026 |
| 1 | Allen:10243 | STC\_posterior (caudal) superior temporal cortex (area 22c) | Allen:10243;Allen:10240 | 0.031 |
| 1 | Allen:10269 | V1C\_primary visual cortex (striate cortex, area V1/17) | Allen:10269;Allen:10268 | 0.035 |
| 1 | Allen:10236 | A1C\_primary auditory cortex (core) | Allen:10236 | 0.041 |
| 1 | Allen:10185 | VFC\_ventrolateral prefrontal cortex | Allen:10185 | 0.044 |
| 1 | Allen:10278 | MFC\_anterior (rostral) cingulate (medial prefrontal) cortex | Allen:10278;Allen:10277 | 0.049 |
| 1 | Allen:10361 | AMY\_amygdaloid complex | Allen:10361 | 0.056 |
| 1 | Allen:10333 | STR\_striatum | Allen:10333;Allen:10332 | 0.068 |
| 1 | Allen:13322 | DLTC\_dorsolateral temporal neocortex | Allen:13322 | 0.073 |
| 1 | Allen:10172 | PFC\_prefrontal cortex | Allen:10172 | 0.077 |
| 1 | Allen:10294 | HIP\_hippocampus (hippocampal formation) | Allen:10294;Allen:10293;Allen:10292 | 0.085 |
| 1 | Allen:10194 | OFC\_orbital frontal cortex | Allen:10194 | 0.104 |
| 1 | Allen:10235 | TCx\_temporal neocortex | Allen:10235 | 0.112 |
| 1 | Allen:10398 | MD\_mediodorsal nucleus of thalamus | Allen:10398;Allen:10397;Allen:10391;Allen:10390;Allen:10389 | 0.134 |
| 1 | Allen:10331 | CN\_cerebral nuclei | Allen:10331 | 0.15 |
| 1 | Allen:10161 | FCx\_frontal neocortex | Allen:10161 | 0.209 |
| 1 | Allen:10160 | NCx\_neocortex (isocortex) | Allen:10160 | 0.377 |
| 1 | Allen:10159 | Cx\_cerebral cortex | Allen:10159 | 0.474 |
| 1 | Allen:10657 | CBC\_cerebellar cortex | Allen:10657;Allen:10656;Allen:10655;Allen:10654;Allen:10653 | 0.578 |
| 1 | Allen:10158 | Tel\_telencephalon | Allen:10158 | 0.602 |
| 1 | Allen:10157 | FGM\_gray matter of forebrain | Allen:10157;Allen:10156 | 0.739 |
| 1 | Allen:10155 | Br\_brain | Allen:10155;Allen:10154;Allen:10153 | 1 |

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| Age Category | Structure ID | Structure Category | Equivalent Allen Brain Structures | FWE P-value |
| 2 | Allen:10209 | S1C\_primary somatosensory cortex (area S1, areas 3,1,2) | Allen:10209 | 0.004 |
| 2 | Allen:10657 | CBC\_cerebellar cortex | Allen:10657;Allen:10656;Allen:10655;Allen:10654;Allen:10653 | 0.008 |
| 2 | Allen:10398 | MD\_mediodorsal nucleus of thalamus | Allen:10398;Allen:10397;Allen:10391;Allen:10390;Allen:10389 | 0.011 |
| 2 | Allen:10269 | V1C\_primary visual cortex (striate cortex, area V1/17) | Allen:10269;Allen:10268 | 0.014 |
| 2 | Allen:10194 | OFC\_orbital frontal cortex | Allen:10194 | 0.016 |
| 2 | Allen:10225 | IPC\_posteroventral (inferior) parietal cortex | Allen:10225;Allen:10214 | 0.02 |
| 2 | Allen:10236 | A1C\_primary auditory cortex (core) | Allen:10236 | 0.021 |
| 2 | Allen:10173 | DFC\_dorsolateral prefrontal cortex | Allen:10173 | 0.022 |
| 2 | Allen:10333 | STR\_striatum | Allen:10333;Allen:10332 | 0.024 |
| 2 | Allen:10278 | MFC\_anterior (rostral) cingulate (medial prefrontal) cortex | Allen:10278;Allen:10277 | 0.027 |
| 2 | Allen:10243 | STC\_posterior (caudal) superior temporal cortex (area 22c) | Allen:10243;Allen:10240 | 0.028 |
| 2 | Allen:10185 | VFC\_ventrolateral prefrontal cortex | Allen:10185 | 0.029 |
| 2 | Allen:10252 | ITC\_inferolateral temporal cortex (area TEv, area 20) | Allen:13324;Allen:10252 | 0.033 |
| 2 | Allen:10294 | HIP\_hippocampus (hippocampal formation) | Allen:10294;Allen:10293;Allen:10292 | 0.038 |
| 2 | Allen:10361 | AMY\_amygdaloid complex | Allen:10361 | 0.039 |
| 2 | Allen:10208 | PCx\_parietal neocortex | Allen:10208 | 0.043 |
| 2 | Allen:10172 | PFC\_prefrontal cortex | Allen:10172 | 0.046 |
| 2 | Allen:13322 | DLTC\_dorsolateral temporal neocortex | Allen:13322 | 0.051 |
| 2 | Allen:10235 | TCx\_temporal neocortex | Allen:10235 | 0.056 |
| 2 | Allen:10331 | CN\_cerebral nuclei | Allen:10331 | 0.061 |
| 2 | Allen:10163 | M1C\_primary motor cortex (area M1, area 4) | Allen:10163;Allen:10162 | 0.48 |
| 2 | Allen:10161 | FCx\_frontal neocortex | Allen:10161 | 0.767 |
| 2 | Allen:10160 | NCx\_neocortex (isocortex) | Allen:10160 | 0.955 |
| 2 | Allen:10159 | Cx\_cerebral cortex | Allen:10159 | 0.991 |
| 2 | Allen:10158 | Tel\_telencephalon | Allen:10158 | 1 |
| 2 | Allen:10157 | FGM\_gray matter of forebrain | Allen:10157;Allen:10156 | 1 |
| 2 | Allen:10155 | Br\_brain | Allen:10155;Allen:10154;Allen:10153 | 1 |

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| Age Category | Structure ID | Structure Category | Equivalent Allen Brain Structures | FWE P-value |
| 3 | Allen:10657 | CBC\_cerebellar cortex | Allen:10657;Allen:10656;Allen:10655;Allen:10654;Allen:10653 | 0.018 |
| 3 | Allen:10243 | STC\_posterior (caudal) superior temporal cortex (area 22c) | Allen:10243;Allen:10240 | 0.027 |
| 3 | Allen:10185 | VFC\_ventrolateral prefrontal cortex | Allen:10185 | 0.031 |
| 3 | Allen:10269 | V1C\_primary visual cortex (striate cortex, area V1/17) | Allen:10269;Allen:10268 | 0.033 |
| 3 | Allen:10236 | A1C\_primary auditory cortex (core) | Allen:10236 | 0.035 |
| 3 | Allen:10252 | ITC\_inferolateral temporal cortex (area TEv, area 20) | Allen:13324;Allen:10252 | 0.039 |
| 3 | Allen:10294 | HIP\_hippocampus (hippocampal formation) | Allen:10294;Allen:10293;Allen:10292 | 0.048 |
| 3 | Allen:10163 | M1C\_primary motor cortex (area M1, area 4) | Allen:10163;Allen:10162 | 0.05 |
| 3 | Allen:10333 | STR\_striatum | Allen:10333;Allen:10332 | 0.055 |
| 3 | Allen:10209 | S1C\_primary somatosensory cortex (area S1, areas 3,1,2) | Allen:10209 | 0.057 |
| 3 | Allen:10194 | OFC\_orbital frontal cortex | Allen:10194 | 0.059 |
| 3 | Allen:10225 | IPC\_posteroventral (inferior) parietal cortex | Allen:10225;Allen:10214 | 0.059 |
| 3 | Allen:10361 | AMY\_amygdaloid complex | Allen:10361 | 0.061 |
| 3 | Allen:13322 | DLTC\_dorsolateral temporal neocortex | Allen:13322 | 0.081 |
| 3 | Allen:10331 | CN\_cerebral nuclei | Allen:10331 | 0.127 |
| 3 | Allen:10235 | TCx\_temporal neocortex | Allen:10235 | 0.131 |
| 3 | Allen:10398 | MD\_mediodorsal nucleus of thalamus | Allen:10398;Allen:10397;Allen:10391;Allen:10390;Allen:10389 | 0.138 |
| 3 | Allen:10208 | PCx\_parietal neocortex | Allen:10208 | 0.142 |
| 3 | Allen:10173 | DFC\_dorsolateral prefrontal cortex | Allen:10173 | 0.265 |
| 3 | Allen:10172 | PFC\_prefrontal cortex | Allen:10172 | 0.417 |
| 3 | Allen:10161 | FCx\_frontal neocortex | Allen:10161 | 0.579 |
| 3 | Allen:10278 | MFC\_anterior (rostral) cingulate (medial prefrontal) cortex | Allen:10278;Allen:10277 | 0.848 |
| 3 | Allen:10160 | NCx\_neocortex (isocortex) | Allen:10160 | 0.998 |
| 3 | Allen:10159 | Cx\_cerebral cortex | Allen:10159 | 0.998 |
| 3 | Allen:10158 | Tel\_telencephalon | Allen:10158 | 1 |
| 3 | Allen:10157 | FGM\_gray matter of forebrain | Allen:10157;Allen:10156 | 1 |
| 3 | Allen:10155 | Br\_brain | Allen:10155;Allen:10154;Allen:10153 | 1 |

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| Age Category | Structure ID | Structure Category | Equivalent Allen Brain Structures | FWE P-value |
| 4 | Allen:10657 | CBC\_cerebellar cortex | Allen:10657;Allen:10656;Allen:10655;Allen:10654;Allen:10653 | 0.003 |
| 4 | Allen:10243 | STC\_posterior (caudal) superior temporal cortex (area 22c) | Allen:10243;Allen:10240 | 0.01 |
| 4 | Allen:10173 | DFC\_dorsolateral prefrontal cortex | Allen:10173 | 0.022 |
| 4 | Allen:10333 | STR\_striatum | Allen:10333;Allen:10332 | 0.038 |
| 4 | Allen:10225 | IPC\_posteroventral (inferior) parietal cortex | Allen:10225;Allen:10214 | 0.038 |
| 4 | Allen:10236 | A1C\_primary auditory cortex (core) | Allen:10236 | 0.043 |
| 4 | Allen:10163 | M1C\_primary motor cortex (area M1, area 4) | Allen:10163;Allen:10162 | 0.046 |
| 4 | Allen:10269 | V1C\_primary visual cortex (striate cortex, area V1/17) | Allen:10269;Allen:10268 | 0.051 |
| 4 | Allen:10209 | S1C\_primary somatosensory cortex (area S1, areas 3,1,2) | Allen:10209 | 0.057 |
| 4 | Allen:10194 | OFC\_orbital frontal cortex | Allen:10194 | 0.062 |
| 4 | Allen:10185 | VFC\_ventrolateral prefrontal cortex | Allen:10185 | 0.068 |
| 4 | Allen:10252 | ITC\_inferolateral temporal cortex (area TEv, area 20) | Allen:13324;Allen:10252 | 0.074 |
| 4 | Allen:10278 | MFC\_anterior (rostral) cingulate (medial prefrontal) cortex | Allen:10278;Allen:10277 | 0.081 |
| 4 | Allen:10398 | MD\_mediodorsal nucleus of thalamus | Allen:10398;Allen:10397;Allen:10391;Allen:10390;Allen:10389 | 0.093 |
| 4 | Allen:10361 | AMY\_amygdaloid complex | Allen:10361 | 0.105 |
| 4 | Allen:10294 | HIP\_hippocampus (hippocampal formation) | Allen:10294;Allen:10293;Allen:10292 | 0.116 |
| 4 | Allen:10172 | PFC\_prefrontal cortex | Allen:10172 | 0.145 |
| 4 | Allen:13322 | DLTC\_dorsolateral temporal neocortex | Allen:13322 | 0.153 |
| 4 | Allen:10208 | PCx\_parietal neocortex | Allen:10208 | 0.159 |
| 4 | Allen:10235 | TCx\_temporal neocortex | Allen:10235 | 0.256 |
| 4 | Allen:10331 | CN\_cerebral nuclei | Allen:10331 | 0.299 |
| 4 | Allen:10161 | FCx\_frontal neocortex | Allen:10161 | 0.365 |
| 4 | Allen:10160 | NCx\_neocortex (isocortex) | Allen:10160 | 0.767 |
| 4 | Allen:10159 | Cx\_cerebral cortex | Allen:10159 | 0.882 |
| 4 | Allen:10158 | Tel\_telencephalon | Allen:10158 | 0.984 |
| 4 | Allen:10157 | FGM\_gray matter of forebrain | Allen:10157;Allen:10156 | 1 |
| 4 | Allen:10155 | Br\_brain | Allen:10155;Allen:10154;Allen:10153 | 1 |

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| Age Category | Structure ID | Structure Category | Equivalent Allen Brain Structures | FWE P-value |
| 5 | Allen:10657 | CBC\_cerebellar cortex | Allen:10657;Allen:10656;Allen:10655;Allen:10654;Allen:10653 | 0.011 |
| 5 | Allen:10269 | V1C\_primary visual cortex (striate cortex, area V1/17) | Allen:10269;Allen:10268 | 0.025 |
| 5 | Allen:10243 | STC\_posterior (caudal) superior temporal cortex (area 22c) | Allen:10243;Allen:10240 | 0.046 |
| 5 | Allen:10173 | DFC\_dorsolateral prefrontal cortex | Allen:10173 | 0.052 |
| 5 | Allen:10225 | IPC\_posteroventral (inferior) parietal cortex | Allen:10225;Allen:10214 | 0.065 |
| 5 | Allen:10185 | VFC\_ventrolateral prefrontal cortex | Allen:10185 | 0.076 |
| 5 | Allen:10252 | ITC\_inferolateral temporal cortex (area TEv, area 20) | Allen:13324;Allen:10252 | 0.087 |
| 5 | Allen:10209 | S1C\_primary somatosensory cortex (area S1, areas 3,1,2) | Allen:10209 | 0.095 |
| 5 | Allen:10163 | M1C\_primary motor cortex (area M1, area 4) | Allen:10163;Allen:10162 | 0.1 |
| 5 | Allen:10236 | A1C\_primary auditory cortex (core) | Allen:10236 | 0.111 |
| 5 | Allen:10194 | OFC\_orbital frontal cortex | Allen:10194 | 0.124 |
| 5 | Allen:10278 | MFC\_anterior (rostral) cingulate (medial prefrontal) cortex | Allen:10278;Allen:10277 | 0.132 |
| 5 | Allen:10333 | STR\_striatum | Allen:10333;Allen:10332 | 0.147 |
| 5 | Allen:10398 | MD\_mediodorsal nucleus of thalamus | Allen:10398;Allen:10397;Allen:10391;Allen:10390;Allen:10389 | 0.154 |
| 5 | Allen:13322 | DLTC\_dorsolateral temporal neocortex | Allen:13322 | 0.159 |
| 5 | Allen:10208 | PCx\_parietal neocortex | Allen:10208 | 0.163 |
| 5 | Allen:10172 | PFC\_prefrontal cortex | Allen:10172 | 0.174 |
| 5 | Allen:10361 | AMY\_amygdaloid complex | Allen:10361 | 0.213 |
| 5 | Allen:10294 | HIP\_hippocampus (hippocampal formation) | Allen:10294;Allen:10293;Allen:10292 | 0.236 |
| 5 | Allen:10235 | TCx\_temporal neocortex | Allen:10235 | 0.278 |
| 5 | Allen:10331 | CN\_cerebral nuclei | Allen:10331 | 0.337 |
| 5 | Allen:10161 | FCx\_frontal neocortex | Allen:10161 | 0.383 |
| 5 | Allen:10160 | NCx\_neocortex (isocortex) | Allen:10160 | 0.789 |
| 5 | Allen:10159 | Cx\_cerebral cortex | Allen:10159 | 0.892 |
| 5 | Allen:10158 | Tel\_telencephalon | Allen:10158 | 0.958 |
| 5 | Allen:10157 | FGM\_gray matter of forebrain | Allen:10157;Allen:10156 | 0.99 |
| 5 | Allen:10155 | Br\_brain | Allen:10155;Allen:10154;Allen:10153 | 1 |

Table e-3 Legend. Full results for the *ABAenrich* analyses are shown. All testable regions (including superstructures) are shown with their associated p-value. Structure name abbreviations along with their full descriptive name are also shown. For some brain regions, there were areas where multiple sample sites were considered equivalent by the developers of *ABAenrich*. Please see Grote et al 2016 for additional details.