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## **APPOINTMENTS**

2014-present: Professor, Department of Anthropology, The George Washington University  
2013-present: co-Director, GW Mind-Brain Institute, The George Washington University  
2009-2014: Associate Professor, Department of Anthropology, The George Washington University  
2006-2009: Assistant Professor, Department of Anthropology, The George Washington University  
2003-2006: Assistant Professor, Department of Anthropology, Kent State University

## **EDUCATION**

2003: Ph.D., Anthropology, Columbia University  
2000: M.Phil., Anthropology, Columbia University  
1998: M.A., Anthropology, Columbia University  
1996: M.A., Education, New York University  
1995: B.A., Anthropology and Philosophy, Columbia University

## **HONORS AND AWARDS**

2012: Oscar & Shoshana Trachtenberg Faculty Scholarship Prize, George Washington University  
2011: James S. McDonnell Foundation Scholar Award  
2003: Ph.D. awarded with distinction, Columbia University

## **JOURNAL ARTICLES**

### **In press**

A.L. Bauernfeind, M.L. Reyzer, R.M. Caprioli, J.J. Ely, C.C. Babbitt, G.A. Wray, P.R. Hof, and **C.C. Sherwood** (in press) High spatial resolution proteomic comparison of the brain in humans and chimpanzees. *The Journal of Comparative Neurology*

A. Verendejev, C. Thomas, S.C. McFarlin, W.D. Hopkins, K.A. Phillips, and **C.C. Sherwood** (in press) Comparative analysis of Meissner's corpuscles in the fingertips of primates. *Journal of Anatomy*

E.P. Gilissen, K. Leroy, Z. Yilmaz, E. Kovari, C. Bouras, A. Boom, L. Poncelet, J.M. Erwin, **C.C. Sherwood**, P.R. Hof, and J.P. Brion (in press) A neuronal aging pattern unique to humans and common chimpanzees. *Brain Structure and Function*

- C. Butti, C.M. Janeway, C. Townshend, B.A. Wicinski, J.S. Reidenberg, S.H. Ridgway, **C.C. Sherwood**, P.R. Hof, and B. Jacobs (in press) The neocortex of cetartiodactyls: I. A comparative Golgi analysis of neuronal morphology in the bottlenose dolphin (*Tursiops truncatus*), the minke whale (*Balaenoptera acutorostrata*), and the humpback whale (*Megaptera novaeangliae*). *Brain Structure and Function*
- B. Jacobs, T. Harland, D. Kennedy, M. Schall, B.A. Wicinski, C. Butti, P.R. Hof, **C.C. Sherwood**, and P.R. Manger (in press) The neocortex of cetartiodactyls: II. Neuronal morphology of the visual and motor cortices in the giraffe (*Giraffa camelopardalis*). *Brain Structure and Function*
- G. Muntané, J.E. Horvath, P.R. Hof, J.J. Ely, W.D. Hopkins, M.A. Raghanti, A.H. Lewandowski, G.A. Wray, and **C.C. Sherwood** (in press) Analysis of synaptic gene expression in the neocortex of primates reveals evolutionary changes in glutamatergic neurotransmission. *Cerebral Cortex*

## 2015

- K. Bozek, Y. Wei, Z. Yan, X. Liu, J. Xiong, M. Sugimoto, M. Tomita, S. Pääbo, **C.C. Sherwood**, P.R. Hof, J.J. Ely, Y. Li, D. Steinhäuser, L. Willmitzer, P. Giavalisco, P. Khaitovich (2015) Organization and evolution of brain lipidome revealed by large-scale analysis of human, chimpanzee, macaque, and mouse tissues. *Neuron* 85: 695-702.
- S.K. Barks, M.E. Calhoun, W.D. Hopkins, M.R. Cranfield, A. Mudakikwa, T.S. Stoinski, F.G. Patterson, J.M. Erwin, E.E. Hecht, P.R. Hof, and **C.C. Sherwood** (2015) Brain organization of gorillas reflects species differences in ecology. *American Journal of Physical Anthropology* 156: 252-262.

## 2014

- J.S. Baizer, K.M. Wong, N.A. Paolone, N. Weinstock, R.J. Salvi, S. Manohar, S.F. Witelson, J.F. Baker, **C.C. Sherwood**, and P.R. Hof (2014) Laminar and neurochemical organization of the dorsal cochlear nucleus of the human, monkey, cat, and rodents. *The Anatomical Record* 1865-1884.
- C.W. Kuzawa, L.I. Grossman, L. Lipovich, O. Muzik, P.R. Hof, D.E. Wildman, **C.C. Sherwood**, H.T. Chugani, W.R. Leonard, and N. Lange (2014) Energetic costs and evolutionary implications of human brain development. *Proceedings of the National Academy of Sciences USA* 111: 13010-13015.
- W.D. Hopkins, A. Meguerditchian, O. Coulon, S. Bogart, J.F. Mangin, **C.C. Sherwood**, M.W. Grabowski, A.J. Bennett, P.J. Pierre, S. Fears, R. Woods, P.R. Hof, and J. Vauclair (2014) Evolution of the central sulcus morphology in primates. *Brain, Behavior and Evolution* 84: 19-30.
- A. Gómez-Robles, W.D. Hopkins, and **C.C. Sherwood** (2014) Modular structure facilitates mosaic evolution of the brain in chimpanzees and humans. *Nature Communications* 5: 4469.
- M.M. Autrey, L. Reamer, M.C. Mareno, **C.C. Sherwood**, J.G. Herndon, T.M. Preuss, S.J. Schapiro, and W.D. Hopkins (2014) Age-related effects in the neocortical organization of chimpanzees: gray and white matter volume, cortical thickness, and gyrification. *NeuroImage* 101: 59-67.
- J.S. Baizer, **C.C. Sherwood**, M. Noonan, and P.R. Hof (2014) Comparative organization of the claustrum: what does structure tell us about function? *Frontiers in Systems Neuroscience* 8: 117.
- A.L. Bauernfeind, S.K. Barks, T. Duka, L.I. Grossman, P.R. Hof, and **C.C. Sherwood** (2014) Aerobic glycolysis in the primate brain: reconsidering the implications for growth and maintenance. *Brain Structure and Function* 219: 1149-1167.

- T. Duka, S.M. Anderson, Z. Collins, M.A. Raghanti, J.J. Ely, P.R., Hof, D.E. Wildman, M. Goodman, L.I. Grossman, and **C.C. Sherwood** (2014) Synaptosomal lactate dehydrogenase isoenzyme composition is shifted toward aerobic forms in primate brain evolution. *Brain, Behavior and Evolution* 83: 216-230.
- K. Bozek, Y. Wei, Z. Yan, X. Liu, J. Xiong, M. Sugimoto, M. Tomita, S. Pääbo, R. Pieszek, **C.C. Sherwood**, P.R. Hof, J.J. Ely, D. Steinhauser, L. Willmitzer, J. Bangsbo, O. Hansson, J. Call, P. Giavalisco, P. Khaitovich (2014) Exceptional evolutionary divergence of human muscle and brain metabolomes parallels human cognitive and physical uniqueness. *PLOS Biology* 12: e1001871
- L. Lipovich, A.L. Tarca, J. Cai, H. Jia, H.T. Chugani, K.N. Sterner, L.I. Grossman, M. Uddin, P.R. Hof, **C.C. Sherwood**, C.W. Kuzawa, M. Goodman, and D.E. Wildman (2014) Developmental changes in the transcriptome of human cerebral cortex tissue: long noncoding RNA transcripts. *Cerebral Cortex* 24: 1451-1459.
- B. Jacobs, N. Johnson, D. Wahl M. Schall, B.C. Maseko, A. Lewandowski, M.A. Raghanti, B. Wicinski, C. Butti, W.D. Hopkins, M.F. Bertelsen, T. Walsh, J.R. Roberts, R.L. Reep, P.R. Hof, **C.C. Sherwood**, and P.R. Manger (2014) Comparative neuronal morphology of the cerebellar cortex in afrotherians, carnivores, cetartiodactyls, and primates. *Frontiers in Neuroanatomy* 8: 24.
- C. Butti, R.E. Fordyce, M.A. Raghanti, X. Gu, C.J. Bonar, B.A. Wicinski, E.W. Wong, J. Roman, A. Brake, E. Eaves, M.A. Spocter, C.Y. Tang, B. Jacobs, **C.C. Sherwood**, and P.R. Hof (2014) The cerebral cortex of the pygmy hippopotamus, *Hexaprotodon lineriensis* (Cetartiodactyla, Hippopotamidae): MRI, cytoarchitecture, and neuronal morphology. *The Anatomical Record* 297: 670-700.
- G.F. Striedter, T.G. Belgard, C.C. Chen, F.P. Davis, B.L. Finlay, O. Güntürkün, M.E. Hale, J.A. Harris, E.E. Hecht, P.R. Hof, H.A. Hofmann, L.Z. Holland, A.N. Iwaniuk, E.D. Jarvis, H. Karten, P.S. Katz, W.B. Kristan, E. Macagno, P.P. Mitra, L.L. Moroz, T.M. Preuss, C.W. Ragsdale, **C.C. Sherwood**, C.F. Stevens, M.C. Stüttgen, T. Tsumoto, and W. Wilczynski (2014) NSF workshop report: discovering general principles of nervous system organization by comparing brain maps across species. Simultaneous publication in *Brain, Behavior and Evolution* 83: 1-8 and *The Journal of Comparative Neurology* 522: 1445-1453.
- M.A. Raghanti, M.K. Edler, R.S. Meindl, J. Sudduth, T. Bohush, J.M. Erwin, C.D. Stimpson, P.R. Hof, and **C.C. Sherwood** (2014) Humans and great apes share increased neocortical neuropeptide Y innervation compared to other haplorhine primates. *Frontiers in Human Neuroscience* 8: 101.
- S.K. Barks, A.L. Bauernfeind, C.J. Bonar, M.R. Cranfield, A.A. de Sousa, J.M. Erwin, W.D. Hopkins, A.H. Lewandowski, A. Mudakikwa, K.A. Phillips, M.A. Raghanti, C.D. Stimpson, P.R. Hof, K. Zilles, and **C.C. Sherwood** (2014) Variable temporoinsular cortex neuroanatomy in primates suggests a bottleneck effect in eastern gorillas. *The Journal of Comparative Neurology* 522: 844-860.

## 2013

- K. Teffer, D.P. Buxhoeveden, C.D. Stimpson, A.J. Fobbs, S.J. Schapiro, W.B. Baze, M.J. McArthur, W.D. Hopkins, P.R. Hof, **C.C. Sherwood**, and K. Semendeferi (2013) Developmental changes in the spatial organization of neurons in the neocortex of humans and common chimpanzees. *The Journal of Comparative Neurology* 521: 4249-4259.
- S.E. Perez, M.A. Raghanti, P.R. Hof, L. Kramer, M.D. Ikonovic, P.N. Lacor, J.M. Erwin, **C.C. Sherwood**, and E.J. Mufson (2013) Alzheimer's disease pathology in the neocortex and hippocampus of the western lowland gorilla (*Gorilla gorilla gorilla*). *The Journal of Comparative Neurology* 521: 4318-4338.

- J.S. Baizer, N.A. Paolone, **C.C. Sherwood**, and P.R. Hof (2013) Neurochemical organization of the vestibular brainstem in the common chimpanzee (*Pan troglodytes*). *Brain Structure and Function* 218: 1463-1485.
- S. Bianchi, C.D. Stimpson, A.L. Bauernfeind, S.J. Schapiro, W.B. Baze, M.J. McArthur, E. Bronson, W.D. Hopkins, K. Semendeferi, B. Jacobs, P.R. Hof, and **C.C. Sherwood** (2013) Dendritic morphology of pyramidal neurons in the chimpanzee neocortex: regional specializations and comparison to humans. *Cerebral Cortex* 23: 2429-2436.
- S. Bianchi, C.D. Stimpson, T. Duka, M.D. Larsen, W.G.M. Janssen, Z. Collins, A.L. Bauernfeind, S.J. Schapiro, W.B. Baze, M.J. McArthur, W.D. Hopkins, D.E. Wildman, L. Lipovich, C.W. Kuzawa, B. Jacobs, P.R. Hof, and **C.C. Sherwood** (2013) Synaptogenesis and development of pyramidal neuron dendritic morphology in the chimpanzee neocortex resembles humans. *Proceedings of the National Academy of Sciences USA* 110 (Supplement 2): 10395-10401.
- A. Gómez-Robles, W.D. Hopkins, and **C.C. Sherwood** (2013) Increased morphological asymmetry, evolvability and plasticity in human brain evolution. *Proceedings of the Royal Society B: Biological Sciences* 280: 20130575.
- K.N. Sterner, M.R. McGowen, H.T. Chugani, A.L. Tarca, **C.C. Sherwood**, P.R. Hof, C.W. Kuzawa, A.M. Boddy, R.L. Raaum, A. Weckle, L. Lipovich, L.I. Grossman, M. Uddin, M. Goodman, and D.E. Wildman (2013) Characterization of human cortical gene expression in relation to glucose utilization. *American Journal of Human Biology* 25: 418-430.
- S.C. McFarlin, S.K. Barks, M.W. Tocheri, J.S. Massey, A.B. Eriksen, K.A. Fawcett, T.S. Stoinski, P.R. Hof, T.G. Bromage, A. Mudakikwa, M.R. Cranfield, and **C.C. Sherwood** (2013) Early brain growth cessation in wild Virunga mountain gorillas (*Gorilla beringei beringei*). *American Journal of Primatology* 75: 450-463.
- M.A. Raghanti, T. Conley, J. Sudduth, J.M. Erwin, P.R. Hof, and **C.C. Sherwood** (2013) Neuropeptide Y-immunoreactive neurons in the cerebral cortex of humans and other haplorhine primates. *American Journal of Primatology* 75: 415-424.
- A.L. Bauernfeind, A.A. de Sousa, T. Avasthi, S.D. Dobson, M.A. Raghanti, A.H. Lewandowski, K. Zilles, K. Semendeferi, J.M. Allman, A.D. Craig, P.R. Hof, and **C.C. Sherwood** (2013) A volumetric comparison of the insular cortex and its subregions in primates. *Journal of Human Evolution* 64: 263-279.
- A.A. de Sousa, **C.C. Sherwood**, P.R. Hof, and K. Zilles (2013) Lamination of the lateral geniculate nucleus of catarrhine primates. *Brain, Behavior and Evolution* 81: 93-108.
- J.S. Baizer, N. Weinstock, S.F. Witelson, **C.C. Sherwood**, and P.R. Hof (2013) The nucleus parafascicularis in the human, chimpanzee, and macaque monkey. *Brain Structure and Function* 218: 389-403.
- J. DeFelipe, P.L. López-Cruz, R. Benavides-Piccione, C. Bielza, P. Larrañaga, S. Anderson, A. Burkhalter, B. Cauli, A. Fairén, D. Feldmeyer, G. Fishell, D. Fitzpatrick, T.F. Freund, G. González-Burgos, S. Hestrin, S. Hill, P.R. Hof, J. Huang, E.G. Jones, Y. Kawaguchi, Z. Kisvárdy, Y. Kubota, D.A. Lewis, O. Marín, H. Markram, C.J. McBain, H.S. Meyer, H. Monyer, S.B. Nelson, K. Rockland, J. Rossier, J. Rubenstein, B. Rudy, M. Scanziani, G.M. Shepherd, **C.C. Sherwood**, J.F. Staiger, G. Tamás, A. Thomson, Y. Wang, R. Yuste, G.A. Ascoli (2013) New insights into the classification and nomenclature of cortical GABAergic interneurons. *Nature Reviews Neuroscience* 14: 202-216.

B.C. Maseko, B. Jacobs, M.A. Spocter, **C.C. Sherwood**, P.R. Hof, and P.R. Manger (2013) Qualitative and quantitative aspects of the microanatomy of the African elephant cerebellar cortex. *Brain, Behavior and Evolution* 81: 40-55.

## 2012

D.J. Miller, T. Duka, C.D. Stimpson, S.J. Schapiro, W.B. Baze, M.J. McArthur, A.J. Fobbs, A.M.M. Sousa, N. Sestan, D.E. Wildman, L. Lipovich, C.W. Kuzawa, P.R. Hof, and **C.C. Sherwood** (2012) Prolonged myelination in human neocortical evolution. *Proceedings of the National Academy of Sciences USA* 109: 16480-16485.

E. Lewitus, P.R. Hof, and **C.C. Sherwood** (2012) Phylogenetic comparison of neuron and glia densities in the primary visual cortex and hippocampus of carnivores and primates. *Evolution* 66: 2551-2563.

W.D. Hopkins, J.F. Pilger, R. Storz, A. Ambrose, P.R. Hof, and **C.C. Sherwood** (2012) Planum temporale asymmetries correlate with corpus callosum axon fiber density in chimpanzees (*Pan troglodytes*). *Behavioural Brain Research* 234: 248-254.

M.A. Spocter, W.D. Hopkins, S.K. Barks, S. Bianchi, A.E. Hehmeyer, S.M. Anderson, C.D. Stimpson, A.J. Fobbs, P.R. Hof, and **C.C. Sherwood** (2012) Neuropil distribution in the cerebral cortex differs between humans and chimpanzees. *The Journal of Comparative Neurology* 520: 2917-2929.

N. Barger, L. Stefanacci, C.M. Schumann, **C.C. Sherwood**, J. Annese, J.M. Allman, J.A. Buckwalter, P.R. Hof, and K. Semendeferi (2012) Neuronal populations in the basolateral nuclei of the amygdala are differentially increased in humans compared with apes: a stereological study. *The Journal of Comparative Neurology* 520: 3035-3054.

K.N. Sterner, A. Weckle, H.T. Chugani, A.L. Tarca, **C.C. Sherwood**, P.R. Hof, C.W. Kuzawa, A.M. Boddy, A. Abbas, R.L. Raaum, L. Grégoire, L. Lipovich, L.I. Grossman, M. Uddin, M. Goodman, and D.E. Wildman (2012) Dynamic gene expression in the human cerebral cortex distinguishes children from adults. *PLOS ONE* 7(5): e37714.

K.A. Phillips, F. Subiaul, and **C.C. Sherwood** (2012) Curious monkeys have increased grey matter density in the precuneus. *Neuroscience Letters* 518: 172-175.

A.M. Boddy, M.R. McGowen, **C.C. Sherwood**, L.I. Grossman, M. Goodman, and D.E. Wildman (2012) Comparative analysis of encephalization in mammals reveals relaxed constraints on anthropoid primate and cetacean brain scaling. *Journal of Evolutionary Biology* 25: 981-994.

E. Lewitus, **C.C. Sherwood**, and P.R. Hof (2012) Cellular signatures in the primary visual cortex of phylogeny and placentation. *Brain Structure and Function* 217: 531-547.

K.A. Phillips and **C.C. Sherwood** (2012) Age-related differences in corpus callosum area of capuchin monkeys. *Neuroscience* 202: 202-208.

## 2011

**C.C. Sherwood**, A.D. Gordon, J.S. Allen, K.A. Phillips, J.M. Erwin, P.R. Hof, and W.D. Hopkins (2011) Aging of the cerebral cortex differs between humans and chimpanzees. *Proceedings of the National Academy of Sciences USA* 108: 13029-13034.

- J.S. Baizer, **C.C. Sherwood**, P.R. Hof, S.F. Witelson, and F. Sultan (2011) Neurochemical and structural organization of the principal nucleus of the inferior olive in the human. *The Anatomical Record* 294: 1198-1216.
- S.D. Dobson and **C.C. Sherwood** (2011) Mosaic evolution of brainstem motor nuclei in catarrhine primates. *Anatomy Research International*. 2011: ID 236894, 5 pages (e-journal)
- M.A. Raghanti, G. Simic, G.D. Golden, S. Watson, C.D. Stimpson, P.R. Hof, and **C.C. Sherwood** (2011) Comparative analysis of the nucleus basalis of Meynert among primates. *Neuroscience* 184: 1-15.
- S. Bianchi, A.L. Bauernfeind, K. Gupta, C.D. Stimpson, M.A. Spocter, C.J. Bonar, P.R. Manger, P.R. Hof, B. Jacobs, and **C.C. Sherwood** (2011) Neocortical neuron morphology in Afrotheria: comparing the rock hyrax with the African elephant. *Annals of the New York Academy of Sciences* 1225: 37-46.
- C. Butti, M.A. Raghanti, **C.C. Sherwood**, and P.R. Hof (2011) The neocortex of cetaceans: cytoarchitecture and comparison with other aquatic and terrestrial species. *Annals of the New York Academy of Sciences* 1225: 47-58.
- K.A. Phillips, C.A. Buzzell, N. Holder, and **C.C. Sherwood** (2011) Why do capuchin monkeys urine wash? An experimental test of the sexual communication hypothesis using fMRI. *American Journal of Primatology* 73: 578-584.
- B. Jacobs, J. Lubs, M. Hannan, K. Anderson, C. Butti, **C.C. Sherwood**, P.R. Hof, and P.R. Manger (2011) Neuronal morphology in the African elephant (*Loxodonta africana*) neocortex. *Brain Structure and Function* 215: 273-298.
- S.D. Dobson and **C.C. Sherwood** (2011) Correlated evolution of brain regions involved in producing and processing facial expressions in anthropoid primates. *Biology Letters* 7: 86-88.
- C.D. Stimpson, N.A. Tetreault, J.M. Allman, B. Jacobs, C. Butti, P.R. Hof, and **C.C. Sherwood** (2011) Biochemical specificity of von Economo neurons in hominoids. *American Journal of Human Biology* 23: 22-28.

## 2010

- W.D. Hopkins, J.P. Tagliabue, T. Nir, N.M. Schenker, and **C.C. Sherwood** (2010) A voxel-based morphometry analysis of white matter asymmetries in chimpanzees (*Pan troglodytes*). *Brain, Behavior and Evolution* 76: 93-100.
- M.A. Spocter, W.D. Hopkins, A.R. Garrison, A.L. Bauernfeind, C.D. Stimpson, P.R. Hof, and **C.C. Sherwood** (2010) Wernicke's area homologue in chimpanzees (*Pan troglodytes*) and its relation to the appearance of modern human language. *Proceedings of the Royal Society B: Biological Sciences* 277: 2165-2174.
- C.C. Sherwood**, T. Duka, C.D. Stimpson, N.M. Schenker, A.R. Garrison, S.J. Schapiro, W.B. Baze, M.J. McArthur, J.M. Erwin, P.R. Hof, and W.D. Hopkins (2010) Neocortical synaptophysin asymmetry and behavioral lateralization in chimpanzees (*Pan troglodytes*). *European Journal of Neuroscience* 31: 1456-1464.
- K.A. Phillips, C.A. Sobieski, V.R. Gilbert, C. Chiappini-Williamson, **C.C. Sherwood**, and P.L. Strick (2010) The development of the basal ganglia in capuchin monkeys (*Cebus apella*). *Brain Research* 1329: 82-88.

A.A. de Sousa, **C.C. Sherwood**, H. Mohlberg, K. Amunts, A. Schleicher, C.E. MacLeod, P.R. Hof, H. Frahm, and K. Zilles (2010) Hominoid visual brain structure volumes and the position of the lunate sulcus. *Journal of Human Evolution* 58: 281-292.

A.A. de Sousa, **C.C. Sherwood**, A. Schleicher, K. Amunts, C.E. MacLeod, P.R. Hof, and K. Zilles (2010) Comparative cytoarchitectural analyses of striate and extrastriate areas in hominoids. *Cerebral Cortex* 20: 966-981.

**C.C. Sherwood**, M.A. Raghanti, C.D. Stimpson, M.A. Spocter, M. Uddin, A.M. Boddy, D.E. Wildman, C.J. Bonar, A.H. Lewandowski, K.A. Phillips, J.M. Erwin, and P.R. Hof (2010) Inhibitory interneurons of the human prefrontal cortex display conserved evolution of the phenotype and related genes. *Proceedings of the Royal Society B: Biological Sciences* 277: 1011-1020.

N.M. Schenker, W.D. Hopkins, M.A. Spocter, A.R. Garrison, C.D. Stimpson, J.M. Erwin, P.R. Hof, and **C.C. Sherwood** (2010) Broca's area homologue in chimpanzees (*Pan troglodytes*): probabilistic mapping, asymmetry, and comparison to humans. *Cerebral Cortex* 20: 730-742.

M.A. Raghanti, M.A. Spocter, C. Butti, P.R. Hof, and **C.C. Sherwood** (2010) A comparative perspective on minicolumns and inhibitory GABAergic interneurons in the neocortex. *Frontiers in Neuroanatomy* 4:3.

Y. Sharma, T. Xu, W.M. Graf, A. Fobbs, **C.C. Sherwood**, P.R. Hof, J.M. Allman, and K.F. Manaye (2010) Comparative anatomy of the locus coeruleus in humans and nonhuman primates. *The Journal of Comparative Neurology* 518: 963-971.

## 2009

M. Goodman, K.N. Sterner, M. Islam, M. Uddin, **C.C. Sherwood**, P.R. Hof, Z.-C. Hou, L. Lipovich, H. Jia, L.I. Grossman, and D.E. Wildman (2009) Phylogenomic analyses reveal convergent patterns of adaptive evolution in elephant and human ancestries. *Proceedings of the National Academy of Sciences USA* 106: 20824-20829.

C. Butti, **C.C. Sherwood**, A.Y. Hakeem, J.M. Allman, and P.R. Hof (2009) Total number and volume of Von Economo neurons in the cerebral cortex of cetaceans. *The Journal of Comparative Neurology* 515: 243-259.

M.A. Raghanti, M.A. Spocter, C.D. Stimpson, J.M. Erwin, C.J. Bonar, J.M. Allman, P.R. Hof, and **C.C. Sherwood** (2009) Species-specific distributions of tyrosine hydroxylase-immunoreactive neurons in the prefrontal cortex of anthropoid primates. *Neuroscience* 158: 1551-1559.

A.Y. Hakeem, **C.C. Sherwood**, C.J. Bonar, C. Butti, P.R. Hof, and J.M. Allman (2009) Von Economo neurons in the elephant brain. *The Anatomical Record* 292: 242-248.

**C.C. Sherwood**, C.D. Stimpson, C. Butti, C.J. Bonar, A.L. Newton, J.M. Allman, and P.R. Hof (2009) Neocortical neuron types in Xenarthra and Afrotheria: implications for brain evolution in mammals. *Brain Structure and Function* 213: 301-328.

## 2008

K.A. Phillips and **C.C. Sherwood** (2008) Cortical development in brown capuchin monkeys: a structural MRI study. *NeuroImage* 43: 657-664.

- W.D. Hopkins, J.P. Tagliabue, A. Meguerditchian, T. Nir, N.M. Schenker, and **C.C. Sherwood** (2008) Gray matter asymmetries in chimpanzees as revealed by voxel-based morphometry. *NeuroImage* 42: 491-497.
- M.A. Raghanti, C.D. Stimpson, J.L. Marcinkiewicz, J.M. Erwin, P.R. Hof, and **C.C. Sherwood** (2008) Cortical dopaminergic innervation among humans, chimpanzees, and macaque monkeys: a comparative study. *Neuroscience* 155: 203-220.
- J. Cray Jr., R.S. Meindl, **C.C. Sherwood**, and C.O. Lovejoy (2008) Ectocranial suture closure in *Pan troglodytes* and *Gorilla gorilla*: pattern and phylogeny. *American Journal of Physical Anthropology* 136: 394-399.
- C.C. Sherwood**, F. Subiaul, and T.W. Zawidzki (2008) A natural history of the human mind: tracing evolutionary changes in brain and cognition. *Journal of Anatomy* 212: 426-454.
- M. Uddin, M. Goodman, O. Erez, R. Romero, G. Liu, M. Islam, J.C. Opazo, **C.C. Sherwood**, L.I. Grossman, and D.E. Wildman (2008) Distinct genomic signatures of adaptation in pre- and postnatal environments during human evolution. *Proceedings of the National Academy of Sciences USA* 105: 3215-3220.
- M.A. Raghanti, C.D. Stimpson, J.L. Marcinkiewicz, J.M. Erwin, P.R. Hof, and **C.C. Sherwood** (2008) Differences in cortical serotonergic innervation among humans, chimpanzees, and macaque monkeys: a comparative study. *Cerebral Cortex* 18: 584-597.
- M. Uddin, J.C. Opazo, D.E. Wildman, **C.C. Sherwood**, P.R. Hof, M. Goodman, and L.I. Grossman (2008) Molecular evolution of the cytochrome *c* oxidase subunit 5A gene in primates. *BMC Evolutionary Biology* 8: 8.
- M.A. Raghanti, C.D. Stimpson, J.L. Marcinkiewicz, J.M. Erwin, P.R. Hof, and **C.C. Sherwood** (2008) Cholinergic innervation of the frontal cortex: differences among humans, chimpanzees, and macaque monkeys. *The Journal of Comparative Neurology* 506: 409-424.

## 2007

- K.A. Phillips, **C.C. Sherwood**, and A.L. Lilak (2007) Corpus callosum morphology in capuchin monkeys is influenced by sex and handedness. *PLOS ONE* 2(8): e792.
- C.C. Sherwood**, E. Wahl, J.M. Erwin, P.R. Hof, and W.D. Hopkins (2007) Histological asymmetries of primary motor cortex predict handedness in chimpanzees (*Pan troglodytes*). *The Journal of Comparative Neurology*. 503: 525-537.
- K.A. Phillips and **C.C. Sherwood** (2007) Cerebral petalias and their relationship to handedness in capuchin monkeys (*Cebus apella*). *Neuropsychologia*. 45: 2398-2401.
- C.C. Sherwood**, M.A. Raghanti, C.D. Stimpson, C.J. Bonar, A.A. de Sousa, T.M. Preuss, and P.R. Hof (2007) Scaling of inhibitory interneurons in areas V1 and V2 of anthropoid primates as revealed by calcium-binding protein immunohistochemistry. *Brain, Behavior and Evolution* 69: 176-195.

## 2006

- C.C. Sherwood**, C.D. Stimpson, M.A. Raghanti, D.E. Wildman, M. Uddin, L.I. Grossman, M. Goodman, J.C. Redmond, C.J. Bonar, J.M. Erwin, and P.R. Hof (2006) Evolution of increased glia-neuron ratios in the human frontal cortex. *Proceedings of the National Academy of Sciences USA* 103: 13606-13611.



## 2005

- K.A. Phillips and **C.C. Sherwood** (2005) Primary motor cortex asymmetry is correlated with handedness in capuchin monkeys (*Cebus apella*). *Behavioral Neuroscience* 119: 1701-1704.
- C.C. Sherwood** (2005) Comparative anatomy of the facial motor nucleus in mammals, with an analysis of neuron numbers in primates. *The Anatomical Record* 287A: 1067-1079.
- P.R. Hof and **C.C. Sherwood** (2005) Morphomolecular neuronal phenotypes in the neocortex reflect phylogenetic relationships among certain mammalian orders. *The Anatomical Record* 287A: 1153-1163.
- A.Y. Hakeem, P.R. Hof, **C.C. Sherwood**, R.C. Switzer III, L.E.L. Rasmussen, and J.M. Allman (2005) Brain of the African elephant (*Loxodonta africana*): neuroanatomy from magnetic resonance images. *The Anatomical Record* 287A: 1117-1127.
- C.C. Sherwood**, M.A. Raghanti, and J.J. Wenstrup (2005) Is humanlike cytoarchitectural asymmetry present in another species with complex social vocalization? A stereologic analysis of mustached bat auditory cortex. *Brain Research* 1045: 164-174.
- C.C. Sherwood**, P.R. Hof, R.L. Holloway, K. Semendeferi, P.J. Gannon, H.D. Frahm, and K. Zilles (2005) Evolution of the brainstem orofacial motor system in primates: a comparative study of trigeminal, facial and hypoglossal nuclei. *Journal of Human Evolution* 48: 45-84.

## 2004

- L. Marino, **C.C. Sherwood**, B.N. Delman, C.Y. Tang, T.P. Naidich, and P.R. Hof (2004) Neuroanatomy of the killer whale (*Orcinus orca*) from magnetic resonance images. *The Anatomical Record* 281A: 1256-1263.
- C.C. Sherwood**, M.R. Cranfield, P.T. Mehlman, A.A. Lilly, J.L. Garbe, C.A. Whittier, F.B. Nutter, T.R. Rein, H.J. Bruner, R.L. Holloway, C.Y. Tang, T.P. Naidich, B.N. Delman, H.D. Steklis, J.M. Erwin, and P.R. Hof (2004) Brain structure variation in great apes, with attention to the mountain gorilla (*Gorilla beringei beringei*). *American Journal of Primatology* 63: 149-164.
- J.A. Colombo, **C.C. Sherwood**, and P.R. Hof (2004) Interlaminar astroglial processes in the cerebral cortex of great apes. *Anatomy and Embryology* 208: 215-218.
- C.C. Sherwood**, R.L. Holloway, J.M. Erwin, A. Schleicher, K. Zilles, and P.R. Hof (2004) Cortical orofacial motor representation in Old World monkeys, great apes, and humans. I. Quantitative analysis of cytoarchitecture. *Brain, Behavior and Evolution* 63: 61-81.
- C.C. Sherwood**, R.L. Holloway, J.M. Erwin, and P.R. Hof (2004) Cortical orofacial motor representation in Old World monkeys, great apes, and humans. II. Stereologic analysis of chemoarchitecture. *Brain, Behavior and Evolution* 63: 82-106. Erratum in *Brain, Behavior and Evolution* (2005) 65: 71-72.

## 2003

- C.C. Sherwood**, R.L. Holloway, P.J. Gannon, K. Semendeferi, J.M. Erwin, K. Zilles, and P.R. Hof (2003) Neuroanatomical basis of facial expression in monkeys, apes, and humans. *Annals of the New York Academy of Sciences* 1000: 99-103.
- C.C. Sherwood**, D.C. Broadfield, R.L. Holloway, P.J. Gannon, and P.R. Hof (2003) Variability of Broca's area homologue in African great apes: implications for language evolution. *The Anatomical Record* 271A: 276-285.

**C.C. Sherwood**, P.W.H. Lee, C.-B. Rivara, R.L. Holloway, E.P.E. Gilissen, R.M.T. Simmons, A. Hakeem, J.M. Allman, J.M. Erwin, and P.R. Hof (2003) Evolution of specialized pyramidal neurons in primate visual and motor cortex. *Brain, Behavior and Evolution* 61: 28-44.

C.-B. Rivara, **C.C. Sherwood**, C. Bouras, and P.R. Hof (2003) Stereologic characterization and spatial distribution patterns of Betz cells in the human primary motor cortex. *The Anatomical Record* 270A: 137-151.

## 2002

G.M. Fatterpekar, T.P. Naidich, B.N. Delman, J.G. Aguinaldo, S.H. Gultekin, **C.C. Sherwood**, P.R. Hof, B.P. Drayer, and Z.A. Fayad (2002) Cytoarchitecture of the human cerebral cortex: MR microscopy of excised specimens at 9.4 Tesla. *American Journal of Neuroradiology* 23: 1313-1321.

## BOOK CHAPTERS

A. Verendeev, **C.C. Sherwood**, and W.D. Hopkins (in press) Organization and evolution of the neural control of the hand in primates: motor systems, sensory feedback, and laterality. In: *Evolution of the Primate Hand: Anatomical, Developmental, Functional and Paleontological Evidence*, T.L. Kivell, P. Lemelin, B.G. Richmond, D. Schmitt (eds.) Springer Publishing.

M.A. Spocter, M.A. Raghanti, C. Butti, P.R. Hof, and **C.C. Sherwood** (in press) The minicolumn in comparative context. In: *Recent Advances on the Modular Organization of the Cerebral Cortex*, M. Casanova, I. Opris (eds.) Springer Publishing.

M.A. Raghanti, L.B. Spurlock, N. Uppal, **C.C. Sherwood**, C. Butti, and P.R. Hof (2015) Von Economo neurons. In: *Brain Mapping: An Encyclopedic Reference, Volume 2: Anatomy and Physiology, Systems*. A. Toga (ed.), Elsevier Press. pp. 81-91.

L.D. Reyes and **C.C. Sherwood** (2015) Neuroscience and human brain evolution. In: *Human Paleoneurology*, E. Bruner (ed.) Springer Series in Bio-/Neuroinformatics Volume 3. pp. 11-37.

**C.C. Sherwood**, A.L. Bauernfeind, S. Bianchi, M.A. Raghanti, and P.R. Hof (2012) Human brain evolution writ large and small. In: *Evolution of the Primate Brain: From Neuron to Behavior. Progress in Brain Research, vol. 195*, M.A. Hofman, D. Falk (eds), Elsevier Press. pp. 237-254.

M.A. Raghanti, P.R. Hof, and **C.C. Sherwood** (2010) The evolution of cortical neurotransmitter systems among primates and their relevance to cognition. In: *The Human Brain Evolving: Paleoneurological Studies in Honor of Ralph L. Holloway*, D. Broadfield, M. Yuan, N. Toth, K. Schick (eds), Stone Age Institute Press. pp. 195-211.

**C.C. Sherwood**, J.K. Rilling, R.L. Holloway, and P.R. Hof (2009) Evolution of the brain in humans – specializations in a comparative perspective. In: *Encyclopedia of Neuroscience, Part 5*, M.D. Binder, N. Hirokawa, U. Windhorst, M.C. Hirsch (eds), Springer-Verlag. pp. 1334-1338.

R.L. Holloway, **C.C. Sherwood**, P.R. Hof, and J.K. Rilling (2009) Evolution of the brain in humans – paleoneurology. In: *Encyclopedia of Neuroscience, Part 5*, M.D. Binder, N. Hirokawa, U. Windhorst, M.C. Hirsch (eds), Springer-Verlag. pp. 1326-1334.

N.M. Schenker, **C.C. Sherwood**, P.R. Hof, and K. Semendeferi (2007) Microstructural asymmetries of the cerebral cortex in humans and other mammals. In: *The Evolution of Hemispheric Specialization in Primates. Special Topics in Primatology, Vol. 5*, W.D. Hopkins (ed), Academic Press: Oxford. pp. 93-118.

**C.C. Sherwood** and P.R. Hof (2007) The evolution of neuron types and cortical histology in apes and humans. In: *The Evolution of Primate Nervous Systems. Evolution of Nervous Systems, Vol. 4*, T.M. Preuss, J.H. Kaas (eds), Academic Press: Oxford. pp. 355-378.

P.R. Hof and **C.C. Sherwood** (2007) The evolution of neuron classes in the neocortex of mammals. In: *The Evolution of Nervous Systems in Mammals. Evolution of Nervous Systems, Vol. 3*, L.A. Krubitzer, J.H. Kaas (eds), Academic Press: Oxford. pp. 113-124.

P.R. Hof, E.P. Gilissen, **C.C. Sherwood**, H. Duan, P.W.H. Lee, B.N. Delman, T.P. Naidich, P.J. Gannon, D.P. Perl, and J.M. Erwin (2002) Comparative neuropathology of brain aging in primates. In: *Aging in Nonhuman Primates. Interdisciplinary Topics in Gerontology, Vol. 31*, J.M. Erwin, P.R. Hof (eds), Karger: Basel. pp. 130-154.

## COMMENTARIES AND BOOK REVIEWS

C.W. Kuzawa, L.I. Grossman, L. Lipovich, O. Muzik, P.R. Hof, D.E. Wildman, **C.C. Sherwood**, H.T. Chugani, W.R. Leonard, and N. Lange (2014) Reply to Skoyles: Decline in growth rate, not muscle mass, predicts the human childhood peak in brain metabolism. *Proceedings of the National Academy of Sciences USA* 111: E4910.

**C.C. Sherwood** (2014) Perspectives on human brain evolution. *Brain, Behavior and Evolution* 84: 79-80.

**C.C. Sherwood** and J.B. Smaers (2013) What's the fuss over human frontal lobe evolution? *Trends in Cognitive Sciences* 17: 432-433.

**C.C. Sherwood** and T. Duka (2012) Now that we've got the map, where are we going? Moving from gene candidate lists to function in studies of brain evolution. *Brain, Behavior and Evolution* 80: 167-169.

**C.C. Sherwood** (2011) Book Review: *The Lives of the Brain: Human Evolution and the Organ of Mind*, by J.S. Allen. *American Journal of Physical Anthropology* 144: 334-335.

M.A. McCollum, **C.C. Sherwood**, C.J. Vinyard, C.O. Lovejoy, and F. Schachat (2006) Of muscle-bound crania and human brain evolution: the story behind the *MYH16* headlines. *Journal of Human Evolution* 50: 232-236.

**C.C. Sherwood** (2006) Book Review: *Principles of Brain Evolution*, by G.F. Striedter. *American Journal of Physical Anthropology* 129: 319-320.

**C.C. Sherwood**, R.L. Holloway, K. Semendeferi, and P.R. Hof (2005) Is prefrontal white matter enlargement a human evolutionary specialization? *Nature Neuroscience* 8: 537-538.

## EDITING OF JOURNAL SPECIAL ISSUES

"The Problem of Human Brain Evolution: Integrating Diverse Approaches" (2014) *Brain, Behavior and Evolution*, Vol. 84, No. 2, Pages 75-167. Editor.

"The Human Brain's Place in Nature: Evolution of Large Brains" (2014) *Frontiers in Neuroanatomy and Frontiers in Human Neuroscience* cross-listing, Guest Associate Editor of Research Topic including 22 articles.

## EDITORIAL POSITIONS

*Brain Structure and Function*, Associate Editor (2012-present)

*Brain, Behavior and Evolution*, Editorial Board Member (2014-present)

*Proceedings of the National Academy of Sciences, USA*, Guest Editor (2012, 2014, 2015)

## BOOK CONTRIBUTIONS

Contributing Editor for *Wiley-Blackwell Encyclopedia of Human Evolution* (B.A. Wood, ed) Wiley-Blackwell Publishers (2011)

## INTERNET CONTENT

*Matrix of Comparative Anthropogeny (MOCA)*. Neuroscience Domain Leader

<http://carta.anthropogeny.org/moca>

## EXTERNAL RESEARCH SUPPORT

2011-2017: PI; “Discovering the evolved human brain phenotype”; James S. McDonnell Foundation Scholar Award (\$600,000)

2011-2016: co-PI (PI: William D. Hopkins, Yerkes National Primate Center); “Hemispheric specialization and communication”; R01: National Institutes of Health: NINDS (total: \$1,707,806; Sherwood subproject: \$851,411)

2011-2015: co-PI (PI: William D. Hopkins, Yerkes National Primate Center); “Heritability of neuroanatomical asymmetries in primates”; R01: National Institutes of Health: NINDS (total: \$1,107,596; Sherwood subproject: \$477,157)

2009-2013: Subcontract (PI: John M. Allman, California Institute of Technology); “Neurobiology of the Von Economo neurons and related circuits”; James S. McDonnell Foundation (Sherwood subcontract: \$318,461)

2008-2013: PI (collaborative with Morris Goodman, Wayne State University); “Evolutionary origins of the brain energetics and adaptive plasticity of humans”; National Science Foundation: HOMINID Program (total: \$2,480,919; Sherwood subproject: \$709,802)

2008-2013: co-PI (PI: Bernard Wood, The George Washington University); “Dynamics of behavioral shifts in human evolution: brains, bodies and ecology”; National Science Foundation: Integrative Graduate Education and Research Traineeship Program (IGERT) (\$3,199,183)

2007-2009: Subcontract (PI: John M. Allman, California Institute of Technology); “The Von Economo neurons: a comparative and developmental study”; James S. McDonnell Foundation (Sherwood subcontract: \$65,160)

2006-2011: co-PI (PI: William D. Hopkins, Yerkes National Primate Center); “Hemispheric specialization and communication”; R01: National Institutes of Health: NINDS (total: \$1,331,000; Sherwood subproject: \$598,529)

2006-2011: PI (collaborative with Morris Goodman, Wayne State University); “Genotypic and phenotypic changes associated with encephalization”; National Science Foundation: Physical Anthropology Program (total: \$500,000; Sherwood subproject: \$53,392)

- 2005-2007: PI; "Evolution of neocortical microcircuitry in anthropoids"; National Science Foundation: Physical Anthropology & Cognitive Neuroscience Programs (\$171,002)
- 2004-2006: PI; "Evolution of neocortical microcircuitry in anthropoids"; The Wenner-Gren Foundation for Anthropological Research: Individual Research Grant (\$25,000)
- 2001-2003: co-PI; "Neural substrates of primate communication"; National Science Foundation: Physical Anthropology Program, Doctoral Dissertation Improvement Grant (\$8,787)
- 2001-2003: PI; "Neural substrates of primate communication"; The Wenner-Gren Foundation for Anthropological Research: Individual Research Grant (\$8,583)
- 2001-2003: PI; "Neural substrates of primate communication"; The L.S.B. Leakey Foundation: General Grant (\$5,500)

### **EXTERNAL RESEARCH SUPPORT AWARDED TO GRADUATE STUDENT ADVISEES**

- 2014-2016: Laura D. Reyes; "Brain reorganization in human evolution: connecting structural and functional changes in the inferior parietal lobe"; National Science Foundation, Doctoral Dissertation Research Improvement Grant (\$22,021)
- 2013-2015: Serena Bianchi; "The striatum in the evolution of flexible, learned vocal communication"; National Science Foundation, Doctoral Dissertation Research Improvement Grant (\$12,122)
- 2012-2013: Amy L. Bauernfeind; "Metabolic supply and demand: a study of energetic strategy in the brain"; The Wenner-Gren Foundation for Anthropological Research, Dissertation Fieldwork Grant (\$20,000)

### **RESEARCH SUPPORT FROM GW**

- 2014-2016: "Evolution of the Human Mind: From Brain Networks to Social Networks"; GW Mind-Brain Institute; Centers and Institutes Facilitating Fund (\$99,990)
- 2008-2011: "Interdisciplinary Approaches to the Evolutionary Origins of the Human Mind"; collaborative with T.W. Zawidzki (Philosophy) and F. Subiaul (Speech and Hearing Science); Research Enhancement Fund (\$104,250)
- 2007: "Executive Functions in Mouse Models of Fragile X and Autism: Abnormalities in Inhibitory Neocortical Circuits"; collaborative with L. A. Rothblat (Psychology); Office of the Chief Research Officer (\$15,000)

### **SUPPORT FOR UNDERGRADUATE RESEARCH FROM GW**

- 2013: "Meissner's Corpuscle Density: A Comparative Study of Humans and Our Primate Relatives"; co-mentor; Luther Rice Undergraduate Research Fellowship for Christian Thomas (\$3,500)
- 2011: "Exploring the Morphology and Biochemistry of Neurons in the Manatee Cerebral Cortex"; mentor; UHP Sigelman Undergraduate Research Enhancement Award for Kanika Gupta (\$500)

2010: "Primate Facial Perception-Neuroanatomical Analysis of the Chimpanzee and Human Fusiform Gyrus"; mentor; Luther Rice Undergraduate Research Fellowship for Abby Knop (\$6,000)

### **RESEARCH SUPPORT FROM KSU**

2005: "Neuroanatomical Mechanisms of Handedness in Chimpanzees"; Research Activity Support, University Research Council (\$3,500)

2004: "Evolution of the Neuromodulation of Cognition in Primates"; Research Activity Support, University Research Council (\$2,500)

2004: Summer Research and Creative Activity Appointment, University Research Council (\$6,500)

2004: Teaching Development Support, University Teaching Council, Kent State University; co-written with Dr. Marilyn Norconk (\$965 to purchase fossil casts for ANTH 18631: Topics in Human Evolution)

### **SYMPOSIA ORGANIZED**

2015: *Evolving Brains: Genomes, Connectomes, and Diversity*  
Co-organized with Anthony-S. LaMantia  
5<sup>th</sup> Annual GW Institute for Neuroscience Symposium, Washington, DC

2013: *The Problem of Human Brain Evolution: Integrating Diverse Approaches*  
25<sup>th</sup> Annual Karger Workshop in Evolutionary Neuroscience, San Diego, CA

### **INVITED PRESENTATIONS**

2015: *Evolution and development of the human neocortex*  
The Pennsylvania State University, Department of Anthropology

2014: *The human brain's place in nature*  
Children's National Medical Center, Department of Neurology

2014: *Evolution and development of the human neocortex*  
Columbia University, Cognitive and Behavioral Neuroscience University Seminar

2013: *Evolution and development of the human neocortex*  
University of Missouri School of Medicine, Department of Pathology and Anatomical Sciences

2013: *Co-evolution of human brain development and culture*  
National Academy of Sciences, Sackler Colloquium, "In the Light of Evolution VII: The Human Mental Machinery"

2012: *Evolution of the neocortex in apes and humans*  
Duke University, Department of Evolutionary Anthropology and Duke Institute for Brain Sciences

2012: *Evolution of the neocortex in apes and humans*  
Harvard University, Department of Human Evolutionary Biology

- 2012: *Neuroscience and human brain evolution*  
Centro Nacional de Investigación sobre la Evolución Humana, Burgos, Spain; Symposium, “Human Paleoneurology”
- 2012: *Discovering the evolved human brain phenotype*  
University of Chicago, Committee on Evolutionary Biology, Evolutionary Morphology Seminar Series
- 2011: *Human specializations of cortical microstructure*  
Center for Academic Research and Training in Anthropogeny (CARTA) Symposium, “Uniquely Human Features of the Brain”
- 2011: *Evolution of the human neocortex*  
Wayne State University School of Medicine, Molecular Phylogenetics and Evolution, Morris Goodman Memorial Symposium
- 2011: *Discovering evolutionary specializations of the human brain*  
Bryn Mawr College / Haverford College, Topics in Neural and Behavioral Sciences Speaker Series
- 2011: *Uncovering evolutionary specializations of the human brain*  
Georgetown University, Interdisciplinary Program in Cognitive Science, “Workshop on the Evolution of Human Cognition”
- 2010: *Uncovering the evolved brain phenotype of humans and apes*  
Howard University, Department of Physiology and Biophysics, Neuroscience Symposium
- 2010: *Neuronal morphology and chemoarchitecture of the neocortex in Afrotheria and Xenarthra*  
National Museum of Health and Medicine, Conference in Memory of Wally Welker, “New Studies of Neurobehavioral Evolution”
- 2010: *Defining the evolved human brain phenotype*  
Human Biology Association, Plenary Session
- 2009: *Uncovering the evolved brain phenotype of humans and apes*  
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
- 2009: *Where is human evolutionary neuroscience?* (panel with J. Rubenstein, G. Streidter, and L. Puelles)  
Cajal Club Social, Society for Neuroscience Conference
- 2009: *Defining the evolved human brain phenotype*  
Wayne State University School of Medicine, Center for Molecular Medicine and Genetics
- 2009: *Brain evolution in early hominins from the inside out: possible and probable phenotypes informed by modern neuroscience*  
American Museum of Natural History, NYCEP Conference, “Darwin’s Legacy: Early Human Evolution in Africa”
- 2009: *A natural history of the human brain*  
New Jersey State Museum, Sunday Science Lecture Series
- 2008: *A natural history of the human brain*  
State University of New York at Buffalo, Department of Physiology and Biophysics

- 2008: *Cell type variation and primate brain evolution*  
Emory University, Department of Anthropology
- 2007: *Brain reorganization writ small: tales from histology*  
The Stone Age Institute and Indiana University symposium, "The Human Brain Evolving: Papers in Honor of Ralph L. Holloway"
- 2007: *A natural history of the human mind: tracing evolutionary changes in brain and cognition*  
Anatomical Society of Great Britain and Ireland, Human Evolution Symposium
- 2006: *Besides being big, what else is special about the human brain?*  
National Museum of Natural History, Smithsonian Institute, Paleoanthropology Seminar
- 2006: *Evolution of increased glia-neuron ratios in the human frontal cortex*  
Arthur M. Sackler Colloquium, National Academy of Sciences, "The New Comparative Biology of Human Nature" (poster presentation)
- 2006: *Besides being big, what else is special about the human brain?*  
Emory University, Evolution and Human Behavior Seminar
- 2006: *Besides being big, what else is special about the human brain?*  
George Mason University, Krasnow Institute for Advanced Study
- 2005: *Neural correlates of primate natural histories*  
Hiram College, Neuroscience Seminar
- 2005: *Brain evolution and primate natural histories*  
Case Western Reserve University, Evolutionary Biology Seminar
- 2005: *Neural correlates of primate natural histories*  
Northeastern Ohio Universities College of Medicine, Department of Neurobiology
- 2005: *Neural correlates of primate natural histories*  
The American Association of Anatomists symposium, "Evolution of Neurobiological Specializations in Mammals"
- 2004: *Neural correlates of primate natural histories*  
Kent State University, Department of Biological Sciences
- 2002: *Neuroanatomical basis of facial expressiveness in great apes and humans*  
The joint international symposium of COE2/SAGA5, "Evolution of the Apes and Origins of the Human Beings", Primate Research Institute, Kyoto University, Japan (poster presentation)
- 2002: *Neuroanatomical basis of facial expressiveness in great apes and humans*  
New York Academy of Sciences conference, "Emotions Inside Out: 130 Years after Darwin's The Expression of the Emotions in Man and Animals" (poster presentation)

## **PUBLISHED CONFERENCE ABSTRACTS**

- A.L. Bauernfeind, M.L. Reyzer, R.M. Caprioli, J.J. Ely, C.C. Babbitt, G.A. Wray, P.R. Hof, and **C.C. Sherwood** (2015) Differences in energy metabolism in the brains of humans and chimpanzees: a study of protein expression. *Am. J. Phys. Anthropol.* 156: 80.



- B.M. Schilder, R. Bobe, and **C.C. Sherwood** (2015) The effects of climatic trends, variability, and rates of change on mammalian brain evolution. *Am. J. Phys. Anthropol.* 156: 278.
- C.D. Stimpson, W.D. Hopkins, J.P. Tagliabata, N. Barger, P.R. Hof, and **C.C. Sherwood** (2015) Serotonin transporter expression in the amygdala of bonobos and chimpanzees: implications for species differences in social behavior. *Am. J. Phys. Anthropol.* 156: 297.
- L.D. Reyes, **C.C. Sherwood**, and W.D. Hopkins (2015) Gray matter in the left inferior parietal cortex is expanded in chimpanzees with greater skill at tool-use. *Am. J. Phys. Anthropol.* 156: 266.
- C. Kuzawa, H.T. Chugani, L.I. Grossman, L. Lipovich, O. Muzik, P.R. Hof, D.E. Wildman, **C.C. Sherwood**, W.R. Leonard, and N. Lange (2015) The high metabolic costs of human brain development help explain the unusually slow body growth of human childhood. *Am. J. Phys. Anthropol.* 156: 196.
- A. Verendeev, C. Thomas, S.C. McFarlin, W.D. Hopkins, K.A. Phillips, and **C.C. Sherwood** (2014) A quantitative analysis of Meissner's corpuscles in the fingertips of humans, chimpanzees and monkeys. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
- S.E. de Santos, J. Porfirio, F. Barros da Cunha, M.A. Raghanti, **C.C. Sherwood**, and S. Herculano-Houzel (2014) Cellular scaling rules for marsupial brains. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
- T.I. Duka, J. Baker, Z. Collins, S.M. Anderson, M.A. Raghanti, J.J. Ely, P.R. Hof, D.E. Wildman, L.I. Grossman, and **C.C. Sherwood** (2014) AMPA receptor GluR2 subunit expression level is unregulated in synapses of the cerebral cortex across primates. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
- K.A. Phillips, C.D. Stimpson, J.B. Smaers, M.A. Raghanti, A. Popratiloff, P.R. Hof, and **C.C. Sherwood** (2014) Biophysical constraints on the processing speed of axons conveyed by the corpus callosum: possible role in the evolution of hemispheric asymmetry. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
- B.G. Jacobs, N.L. Johnson, D. Wahl, C.B. Johnson, D. Mohr, B. Kopec, M. Schall, B.C. Maseko, A.H. Lweandowski, M.A. Raghanti, B. Wicinski, C. Butti, W.D. Hopkins, M.F. Bertelsen, T. Walsh, J.R. Roberts, R.L. Reep, P.R. Hof, **C.C. Sherwood**, and P.R. Manger (2014) Comparative neuronal morphology of the cerebellar cortex in afrotherians, carnivores, cetartiodactyls, and primates. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
- C.J. Charvet, A. Van Der Kouwe, W.D. Hopkins, P.R. Hof, **C.C. Sherwood**, and E. Takahashi (2014) Evo-devo and the cortical connectome highlights systematic changes in frontal connections across primates. *2014 Neuroscience Meeting Planner*. Society for Neuroscience, Online.
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