

Nicholas James Strausfeld. Curriculum vitae

Education

University College London, UK	BSc	1961-1965	Zoology
University College London, UK	Ph.D.	1965-1968	Neurophysiology
University of Frankfurt, German Federal Republic	Habilitation	1985	Zoology

Academic Appointments

- 2005-present **Director**, Center for Insect Science
2005- present **Director**, NIH IRACDA Program: Postdoctoral Excellence in Research & Teaching.
1997- present **Professor of International Studies**, University of Arizona
1995- present **Professor of Ecology and Evolutionary Biology**, University of Arizona,
1994- present **Adjunct Professor of Art**, The Department of Art, University of Arizona
1992- present **Professor of Entomology**, Department of Entomology. University of Arizona,
1987- present **Professor of Neuroscience**, University of Arizona, Tucson
1975-86 Group Leader, Neurobiology Group, European Molecular Biology Laboratory, Heidelberg, GFR.
1970-75 Staff Scientist, Max-Planck-Institute for Biological Cybernetics, Tübingen, GFR.

Other

- 2008 Resident Scholar. Rockefeller Foundation Bellagio Center, Italy
2008 Elected corresponding member of the Akademia Scientiarum Göttingensis.
2002 Elected Fellow of the Royal Society of London
2001 Alexander v. Humboldt Senior Research Prize
1999 Regents' Professor, University of Arizona
1995 Fellow, Japanese Society for the Promotion of Science
1995 Fellow, John D. and Catherine T. MacArthur Foundation
1994 Fellow, John Simon Guggenheim Memorial Foundation
1968-70 Alexander von Humboldt Foundation Postdoctoral Scholar, University of Frankfurt, GFR.

C. Selected Recent Publications

- Strausfeld NJ.** Arthropod Brains: Evolution, Functional Elegance, and Historical Significance. Harvard University Press, Belknap. 848 pp.
Ma X, Hou X, Edgecombe GD, **Strausfeld NJ.** 2012. Complex brain and optic lobes in an early Cambrian arthropod. *Nature*. 490:258-261.
Mu L, Ito K, Bacon JP, **Strausfeld NJ.** 2012. Optic glomeruli and their inputs in *Drosophila* share an organizational ground pattern with the antennal lobes. *J Neurosci*. 32:6061-6071.
Lin C, **Strausfeld NJ.** 2012. Visual inputs to the mushroom body calyces of the whirligig beetle *Dineutus sublineatus*: modality switching in an insect. *J Comp Neurol*. 520:2562-2574.
Phillips-Portillo J, **Strausfeld NJ.** 2012. Representation of the brain's superior protocerebrum of the flesh fly, *Neobellieria bullata*, in the central body. *J Comp Neurol*. 520:3070-3087.
Wolff G, Harzsch S, Hansson BS, Brown S, **Strausfeld NJ.** 2012. Neuronal organization of the hemiellipsoid body of the land hermit crab, *Coenobita clypeatus*: correspondence with the mushroom body ground pattern. *J Comp Neurol*. 520:2824-2846.
Lin C, **Strausfeld NJ.** 2013 A precocious adult visual center in the larva defines the unique optic lobe of the split-eyed whirligig beetle *Dineutus sublineatus*. *Front Zool*. 2013 Feb 19;10(1):7.
Strausfeld NJ, Hirth F. 2013. Deep homology of arthropod central complex and vertebrate basal ganglia. *Science*. 340:157-161.
Tanaka G, Hou X, Ma X, Edgecombe GD, **Strausfeld NJ.** 2013. Chelicerate neural ground pattern in a Cambrian great appendage arthropod. *Nature*. 2013 Oct 17;502(7471):364-367.

- Ito K, Shinomiya K, Ito M, Armstrong D, Boyan G, Hartenstein V, Harzsch S, Heisenberg M, Homberg U, Jenett A, Keshishian H, Restifo L, Rössler W, Simpson J, **Strausfeld NJ**, Strauss R, Vosshall LB. 2014. A systematic nomenclature for the insect brain. *Neuron* 18: 755–765.
- Ma X, Cong P, Hou X, Edgecombe GD, **Strausfeld NJ**. 2014. An exceptionally preserved arthropod cardiovascular system from the early Cambrian. *Nature Communications* 5, 3560..
- Mu L, Bacon JP, Ito K, **Strausfeld NJ**. 2014. Responses of *Drosophila* giant descending neurons to visual and mechanical stimuli. *The Journal of Experimental Biology*. 217(Pt 12):2121–2129.
- Cong P, Ma X, Hou X, Edgecombe G, **Strausfeld N. J.** 2014. Brain structure resolves the segmental affinity of anomalocaridid appendages. *Nature* 513, 538–542
- Ma X, Edgecombe GD, Hou X, Goral T, **Strausfeld NJ**. 2015. Preservational pathways of corresponding brains of a Cambrian euarthropod. *Current Biology* 25(22):2969–75.
- Edgecombe GD, Ma X, **Strausfeld NJ**. (2015) Unlocking the early fossil record of the arthropod central nervous system. *Philosophical transactions of the Royal Society of London. Series B, Biological Sciences*. 370(1684).
- Strausfeld NJ**. 2015. Palaeontology: clearing the heads of Cambrian arthropods. *Current biology* 25(14), 616–618.
- Wolff GH, **Strausfeld NJ**. 2015. Genealogical correspondence of mushroom bodies across invertebrate phyla. *Current Biology* 25(1):38–44.
- Fiore VG, Dolan RJ, **Strausfeld NJ**, Hirth F. 2015. Evolutionarily conserved mechanisms for the selection and maintenance of behavioural activity. *Philosophical transactions of the Royal Society of London. Series B, Biological Sciences* 370(1684)
- Strausfeld NJ**, Wolff GH. 2016. The Insect Brain: A Commentated Primer. In: *Structure and Evolution of Invertebrate Nervous Systems*. Oxford: Oxford University Press; 2016 p. 597–639.
- Strausfeld NJ**, Ma X, Edgecombe GD, Fortey RA, Land MF, Liu Y, Cong P, Hou X. 2016. Arthropod eyes: The early Cambrian fossil record and divergent evolution of visual systems. *Arthropod Structure & Development* 45, 152-172.
- Strausfeld NJ**. 2016. *Waptia* revisited: Intimations of behaviors. *Arthropod Structure & Development* 45, 173-184.