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Manganese exposure induces neuroinflammation by impairing mitochondrial 1 dynamics in astrocytes 2 3 Souvarish Sarkar[#], Emir Malovic[#], Dilshan S. Harischandra, Hilary A. Ngwa, Anamitra 4 Ghosh, Colleen Hogan, Dharmin Rokad, Gary Zenitsky, Huajun Jin, Vellareddy 5 Anantharam, Anumantha G. Kanthasamy, Arthi Kanthasamy* 6 7 Parkinson Disorders Research Laboratory, Iowa Center for Advanced Neurotoxicology, 8 Department of Biomedical Sciences, 2062 Veterinary Medicine Building, Iowa State 9 University, Ames, IA 50011. 10 11 12 #These authors made equal contributions 13 14 *To whom correspondence should be addressed: Arthi Kanthasamy, Ph.D. Professor, 15 Department of Biomedical Sciences, Iowa State University, Ames, IA 50011, 16 Telephone: (515) 294-2516; Fax: (515) 294-2315, Email: arthik@iastate.edu 17

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