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Cold atmospheric plasma (CAP), a novel physicochemical source, induces neural differentiation through cross-talk between the specific RONS cascade and Trk/Ras/ ERK signaling pathway

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Cold atmospheric plasma (CAP), a novel physicochemical source, induces neural 1 differentiation through cross-talk between the specific RONS cascade and Trk/Ras/ERK 2 signaling pathway 3 4 5 6 Ja-Young Jang<sup>a, b</sup>, Young June Hong<sup>c</sup>, Junsup Lim<sup>c</sup>, Jin Sung Choi<sup>c</sup>, Eun Ha Choi<sup>c, d</sup>, Seongman 7 Kang<sup>b\*</sup>, and Hyangshuk Rhim<sup>a\*</sup> 8 9 10 <sup>a</sup>Department of Medical Life Sciences, College of Medicine, the Catholic University of Korea, Seoul, Korea; <sup>b</sup>Division of Life Sciences, College of Life Sciences and Biotechnology, Korea University, 11 Seoul, Korea; <sup>c</sup>Plasma Bioscience Research Center, Kwangwoon University, Seoul 01897, Korea; 12 13 <sup>d</sup>Department of Electrical and Biological Physics, Kwangwoon University, Seoul 01897, Korea 14 15 16 \*Correspondence: hrhim@catholic.ac.kr (Hyangshuk Rhim), Department of Medical Life Sciences, 17 College of Medicine, The Catholic University of Korea, 222 Banpo-daero, Seocho-gu, Seoul 137-18

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