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Is raw better? A multiple DNA barcoding approach (full and mini) based on mitochondrial and nuclear markers reveals low rates of misdescription in sushi products sold on the Italian market

A. Armani, L. Tinacci, R. Lorenzetti, A. Benvenuti, F. Susini, L. Gasperetti, E. Ricci, M. Guarducci, A. Guidi

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1 Is raw better? A multiple DNA barcoding approach (full and mini) based on mitochondrial and nuclear markers reveals low rates of misdescription in sushi products sold on the Italian 2 market. 3 Armani A.¹°*, Tinacci L.¹°, Lorenzetti R.², Benvenuti A.¹, Susini F.³, Gasperetti L.³, Ricci E.³, 4 Guarducci M^{.3}, Guidi A.¹ 5 6 ¹ FishLab, Department of Veterinary Sciences, University of Pisa, Viale delle Piagge 2, 56124, 7 Pisa (Italy). 8 ² Experimental Zooprophylactic Institute of Lazio and Tuscany, Rome District, via Appia Nuova, 9 Rome 10 ³ Experimental Zooprophylactic Institute of Lazio and Tuscany, Pisa District, S.S. dell'Abetone e 11 del Brennero 4, 56123 Pisa, (Italy) 12 13 °These authors contributed equally to this work. 14 15 16 17 18 19 *corresponding author: 20 Postal address: FishLab, (http://fishlab.vet.unipi.it). Department of Veterinary Sciences, 21 University of Pisa, Viale delle Piagge 2, 56124, Pisa (Italy). 22 Tel: +390502210207 23 Fax: +390502210213 24 Email: andrea.armani@unipi.it 25

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