



Article

# The Effect of the Stress Induced by Hydrogen Peroxide and Corticosterone on Tryptophan Metabolism, Using Human Neuroblastoma Cell Line (SH-SY5Y)

Ana Salomé Correia <sup>1,2,3</sup>, Isabel Silva <sup>4</sup>, Henrique Reguengo <sup>4,5</sup>, José Carlos Oliveira <sup>2,4,5</sup>, Francisco Vasques-Nóvoa <sup>6,7</sup>, Armando Cardoso <sup>3,8,9</sup> and Nuno Vale <sup>1,3,10, \*</sup>

<sup>1</sup> OncoPharma Research Group, Center for Health Technology and Services Research (CINTESIS), Rua Doutor Plácido da Costa, 4200-450 Porto, Portugal

<sup>2</sup> Institute of Biomedical Sciences Abel Salazar (ICBAS), University of Porto, Rua de Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

<sup>3</sup> CINTESIS@RISE, Faculty of Medicine, University of Porto, Alameda Professor Hernâni Monteiro, 4200-319 Porto, Portugal

<sup>4</sup> Clinical Chemistry, Department of Laboratory Pathology, Hospital Center of the University of Porto (CHUP), Largo Prof. Abel Salazar, 4099-313 Porto, Portugal

<sup>5</sup> Unit for Multidisciplinary Research in Biomedicine (UMIB), University of Porto, Rua de Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

<sup>6</sup> Cardiovascular R&D Center, Faculty of Medicine, University of Porto, Rua Doutor Plácido da Costa, s/n, 4200-450 Porto, Portugal

<sup>7</sup> Department of Surgery and Physiology, Faculty of Medicine, University of Porto, Rua Doutor Plácido da Costa, 4200-450 Porto, Portugal

<sup>8</sup> NeuroGen Research Group, Center for Health Technology and Services Research (CINTESIS), Rua Doutor Plácido da Costa, 4200-450 Porto, Portugal

<sup>9</sup> Unit of Anatomy, Department of Biomedicine, Faculty of Medicine, University of Porto, Alameda Professor Hernâni Monteiro, 4200-319 Porto, Portugal

<sup>10</sup> Department of Community Medicine, Health Information and Decision (MEDCIDS), Faculty of Medicine, University of Porto, Rua Doutor Plácido da Costa, 4200-450 Porto, Portugal

\*Correspondence: nunovale@med.up.pt; Tel.: +351-220-426-537.

## Supplementary Material

Table S1. List of the most important abbreviations

Abbreviation	Meaning
CORT	Corticosterone
5-HIAA	5-hydroxyindoleacetic acid
5-HT	Serotonin
5-HTP	5-Hydroxytryptophan
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
L-Trp	L-Tryptophan
ROS	Reactive oxygen species