

Supplementary Table 2 – Data of patients and control individuals used in the preliminary validation. Individual sample codes (in italic) and demographic parameters are indicated for all the samples. For each group it is indicated an overall characterization of the group with the indication of the mean values, intervals, and gender distribution (indicated in bold).

	Age (years)	Gender	
Control Group	<i>Ctrl10</i>	53	M
	<i>Ctrl31</i>	58	F
	<i>Ctrl44</i>	60	M
	<i>Ctrl66</i>	64	F
	<i>Ctrl50</i>	67	F
	<i>Ctrl12</i>	71	F
	<i>Ctrl38</i>	71	F
	<i>Ctrl54</i>	72	M
	<i>Ctrl59</i>	72	F
	<i>Ctrl18</i>	73	F
	<i>Ctrl58</i>	74	F
	<i>Ctrl39</i>	75	F
	Group overview	67.5±7.2 [53, 75]	M: 3 (25%) F: 9 (75%)
Parkinson's Disease Group	<i>PD3</i>	38	F
	<i>PD51</i>	46	M
	<i>PD64</i>	47	F
	<i>PD16</i>	49	F
	<i>PD21</i>	50	F
	<i>PD8</i>	50	F
	<i>PD20</i>	56	M
	<i>PD27</i>	57	M
	<i>PD19</i>	58	F
	<i>PD25</i>	58	M
	<i>PD46</i>	58	F
	<i>PD70</i>	60	F
	<i>PD37</i>	61	M
	<i>PD4</i>	63	F
	<i>PD26</i>	67	M
	<i>PD57</i>	68	M
	<i>PD13</i>	69	M

<i>PD29</i>	69	M
<i>PD42</i>	69	F
<i>PD34</i>	75	F
<i>PD15</i>	76	F
<i>PD45</i>	79	F
Group overview	60.1±10.7 [38, 79]	M: 9 (40.9%) F: 13 (59.1%)

^aAge at blood coll. (y): age at blood collection in years; ^bThe individuals were divided into males (M) and females (F).