

**Table S2 Study characteristics by individual FRAILOMIC cohorts**

	<b>3-C</b>	<b>AMI</b>	<b>TSHA</b>	<b>InC</b>	<b><i>p</i></b>
<b>N, % (n)</b>	469	289	414	278	
<b>Females, % (n)</b>	62.3 (292)	37.7 (109)	59.7 (247)	58.6 (163)	<b>&lt; 0.001<sup>#</sup></b>
<b>Age, years</b>	82.1 ± 4.7 <sup>a</sup>	75.5 ± 6.4 <sup>b</sup>	75.1 ± 5.7 <sup>b</sup>	75.5 ± 6.9 <sup>b</sup>	<b>&lt; 0.001</b>
<b>Weight, kg</b>	67.2 ± 13.5 <sup>a</sup>	76.0 ± 14.8 <sup>b</sup>	71.5 ± 12.2 <sup>c</sup>	69.2 ± 13.0 <sup>a,c</sup>	<b>&lt; 0.001</b>
<b>Height, cm</b>	161.2 ± 9.5 <sup>a</sup>	165.0 ± 8.2 <sup>b</sup>	156.8 ± 9.2 <sup>c</sup>	157.3 ± 9.3 <sup>c</sup>	<b>&lt; 0.001</b>
<b>BMI, kg/m<sup>2</sup></b>	25.8 ± 4.1 <sup>a</sup>	27.8 ± 4.5 <sup>b</sup>	29.1 ± 4.8 <sup>c</sup>	27.9 ± 4.4 <sup>b</sup>	<b>&lt; 0.001</b>
<b>Smoker, % (n)</b>	4.7 (22)	5.2 (15)	8.8 (36)	0.0 (0)	<b>&lt; 0.001<sup>#</sup></b>
<b>MMSE, points</b>	27.9 ± 2.1 <sup>a</sup>	25.6 ± 3.5 <sup>b</sup>	23.1 ± 5.2 <sup>c</sup>	24.9 ± 3.4 <sup>b</sup>	<b>&lt; 0.001</b>

All results reported mean (standard deviation) or % (n). BMI, body mass index; MMSE, Mini-Mental State Examination. Superscript letters indicate statistical significant differences between frailty groups by unadjusted GLM. <sup>#</sup> Differences between frailty groups determined by Pearson's chi-squared test. *P* < 0.05.

### **Associations of vitamins D<sub>3</sub>, A, E, carotenoids and biomarkers of oxidative stress with frailty status in the FRAILOMIC initiative**

Journal of Cachexia, Sarcopenia and Muscle

Bastian Kochlik, Wolfgang Stuetz, Karine Pérès, Sophie Pilleron, Catherine Féart, Francisco José García García, Stefania Bandinelli, David Gomez-Cabrero, Leocadio Rodriguez-Manas, Tilman Grune, Daniela Weber<sup>1,2,#,\*</sup>

<sup>#</sup>Corresponding author: Daniela Weber, PhD; <sup>1</sup> Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE), Nuthetal, Germany; <sup>2</sup> NutriAct-Competence Cluster Nutrition Research Berlin-Potsdam, Nuthetal, Germany; \* on behalf of the FRAILOMIC Initiative; Email: Daniela.Weber@dife.de; Phone: +49 (0)33200-88-2358; Fax: +49 (0)33200-88-2407.