

Supplementary Materials for

# PBMCs as tool for identification of novel immunotherapy biomarkers in lung cancer

Caterina De Rosa<sup>1,†</sup>, Francesca Iommelli<sup>2,†</sup>, Viviana De Rosa<sup>2,\*</sup>, **Giuseppe Ercolano<sup>3</sup>, Federica Sodano<sup>3</sup>**, Concetta Tuccillo<sup>1</sup>, Luisa Amato<sup>1</sup>, Virginia Tirino<sup>4,5</sup>, Annalisa Ariano<sup>1</sup>, Flora Cimmino<sup>6</sup>, Gaetano di Guida<sup>1</sup>, Gennaro Filosa<sup>1</sup>, Alessandra di Liello<sup>1</sup>, Davide Ciardiello<sup>7</sup>, Erika Martinelli<sup>1</sup>, Teresa Troiani<sup>1</sup>, Stefania Napolitano<sup>1</sup>, Giulia Martini<sup>1</sup>, Fortunato Ciardiello<sup>1</sup>, Federica Papaccio<sup>8</sup>, Floriana Morgillo<sup>1,††</sup>, Carminia Maria Della Corte<sup>1,††,\*</sup>

<sup>1</sup>Department of Precision Medicine, University of Campania Luigi Vanvitelli, Italy; [caterina.derosa1@unicampania.it](mailto:caterina.derosa1@unicampania.it), [concetta.tuccillo@unicampania.it](mailto:concetta.tuccillo@unicampania.it), [luisa.amato@unicampania.it](mailto:luisa.amato@unicampania.it), [annalisaariano98@outlook.it](mailto:annalisaariano98@outlook.it), [gaetano.diguidda@studenti.unicampania.it](mailto:gaetano.diguidda@studenti.unicampania.it), [gennaro.filosa@unicampania.it](mailto:gennaro.filosa@unicampania.it), [alessandradiliello@gmail.com](mailto:alessandradiliello@gmail.com), [erika.martinelli@unicampania.it](mailto:erika.martinelli@unicampania.it), [teresa.troiani@unicampania.it](mailto:teresa.troiani@unicampania.it), [stefania.napolitano@unicampania.it](mailto:stefania.napolitano@unicampania.it), [giulia.martini@unicampania.it](mailto:giulia.martini@unicampania.it), [fortunato.ciardiello@unicampania.it](mailto:fortunato.ciardiello@unicampania.it), [floriana.morgillo@unicampania.it](mailto:floriana.morgillo@unicampania.it), [carminiamaria.dellacorte@unicampania.it](mailto:carminiamaria.dellacorte@unicampania.it)

<sup>2</sup>Institute of Biostructures and Bioimaging, National Research Council, Naples, Italy; [francesca.iommelli@ibb.cnr.it](mailto:francesca.iommelli@ibb.cnr.it), [viviana.derosa@ibb.cnr.it](mailto:viviana.derosa@ibb.cnr.it)

<sup>3</sup>Department of Pharmacy, School of Medicine, University of Naples Federico II, Italy; [giuseppe.ercolano@unina.it](mailto:giuseppe.ercolano@unina.it), [federica.sodano@unina.it](mailto:federica.sodano@unina.it)

<sup>4</sup>Department of Experimental Medicine, University of Campania Luigi Vanvitelli, Italy; [virginia.tirino@unicampania.it](mailto:virginia.tirino@unicampania.it)

<sup>5</sup>U.P. Diagnostica Citometrica e Mutazionale, A.O.U. Vanvitelli, Università degli Studi della Campania, Naples, Italy

<sup>6</sup>Hospital "Martiri Di Villa Malta", Sarno, Campania, Italy; [floracimmino81@gmail.com](mailto:floracimmino81@gmail.com)

<sup>7</sup>Division of Gastrointestinal Medical Oncology and Neuroendocrine Tumors, European Institute of Oncology (IEO), IRCCS, Milan, Italy; [davide.ciardiello@unicampania.it](mailto:davide.ciardiello@unicampania.it)

<sup>8</sup>Department of Medicine, Surgery and Dentistry, "Scuola Medica Salernitana", University of Salerno, Baronissi, Italy; [fpapaccio@unisa.it](mailto:fpapaccio@unisa.it)

\*Correspondence: [viviana.derosa@ibb.cnr.it](mailto:viviana.derosa@ibb.cnr.it); tel +390812203430 and [carminiamaria.dellacorte@unicampania.it](mailto:carminiamaria.dellacorte@unicampania.it); tel.: +393929160541

† These authors contributed equally to this work as co-first authors

†† These authors contributed equally to this work as co-last authors

**The PDF file includes:**

**Table S1. Cytokine assay characteristics**

<b>Cytokine</b>	<b>Vendor</b>	<b>Range standard curve</b>	<b>Limit of detection</b>
CCL5	Invitrogen	51,2-2000 pg/ml	2 pg/ml
CXCL10	Invitrogen	7.8-500 pg/ml	2 pg/ml

**Table S2. Correlation analysis in lung cancer patients (BR, R and NR) between STING/cGAS mRNA level and serum CXCL10 and CCL5**

	BR				
	STING vs. CXCL10	STING vs. CCL5	cGAS vs. CXCL10	cGAS vs. CCL5	CXCL10 vs. CCL5
<b>r value</b>	0.2855	-0.1014	0.02951	-0.4408	-0.2404
<b>95% CI</b>	-0.6847 to 0.8907	-0.8436 to 0.7738	-0.8012 to 0.8214	-0.9224 to 0.5773	-0.8802 to 0.7096
<b>p value</b>	0.5834	0.8484	0.9557	0.3816	0.6463

	R				
	STING vs. CXCL10	STING vs. CCL5	cGAS vs. CXCL10	cGAS vs. CCL5	CXCL10 vs. CCL5
<b>r value</b>	-0.1615	0.1426	-0.2599	0.2024	0.4792
<b>95% CI</b>	-0.7777 to 0.6129	-0.6249 to 0.7699	-0.8152 to 0.5445	-0.5858 to 0.7939	-0.3404 to 0.8850
<b>p value</b>	0.7023	0.7363	0.5343	0.6307	0.2295

	NR				
	STING vs. CXCL10	STING vs. CCL5	cGAS vs. CXCL10	cGAS vs. CCL5	CXCL10 vs. CCL5
<b>r value</b>	0.1732	0.4973	0.7252	0.6996	0.8396
<b>95% CI</b>	-0.6669 to 0.8194	-0.5269 to 0.9325	-0.06129 to 0.9561	-0.2590 to 0.9639	0.08816 to 0.9820
<b>p value</b>	0.7104	0.3155	0.0651	0.1218	0.0365