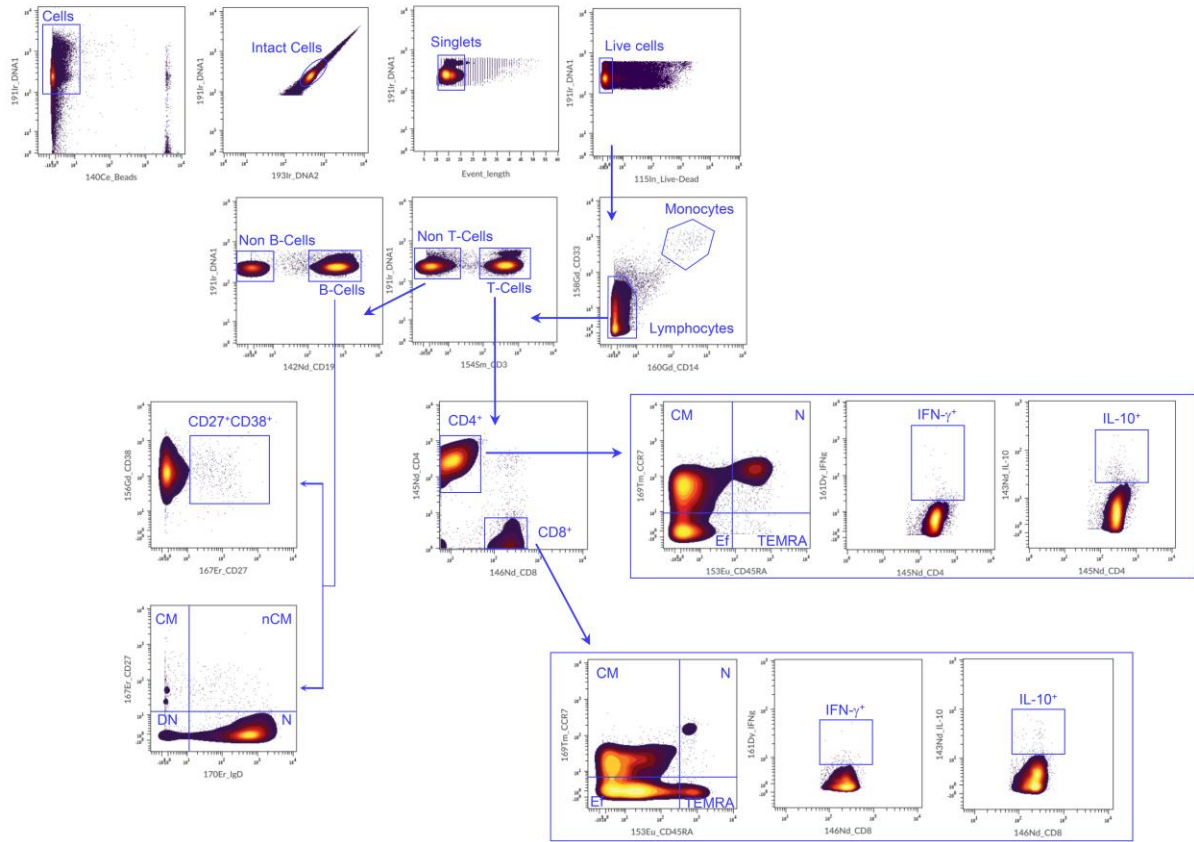


**Comprehensive landscape of neutralizing antibody and cell-mediated response elicited by
the 1/5 fractional dose of 17DD-YF primary vaccination in adults**

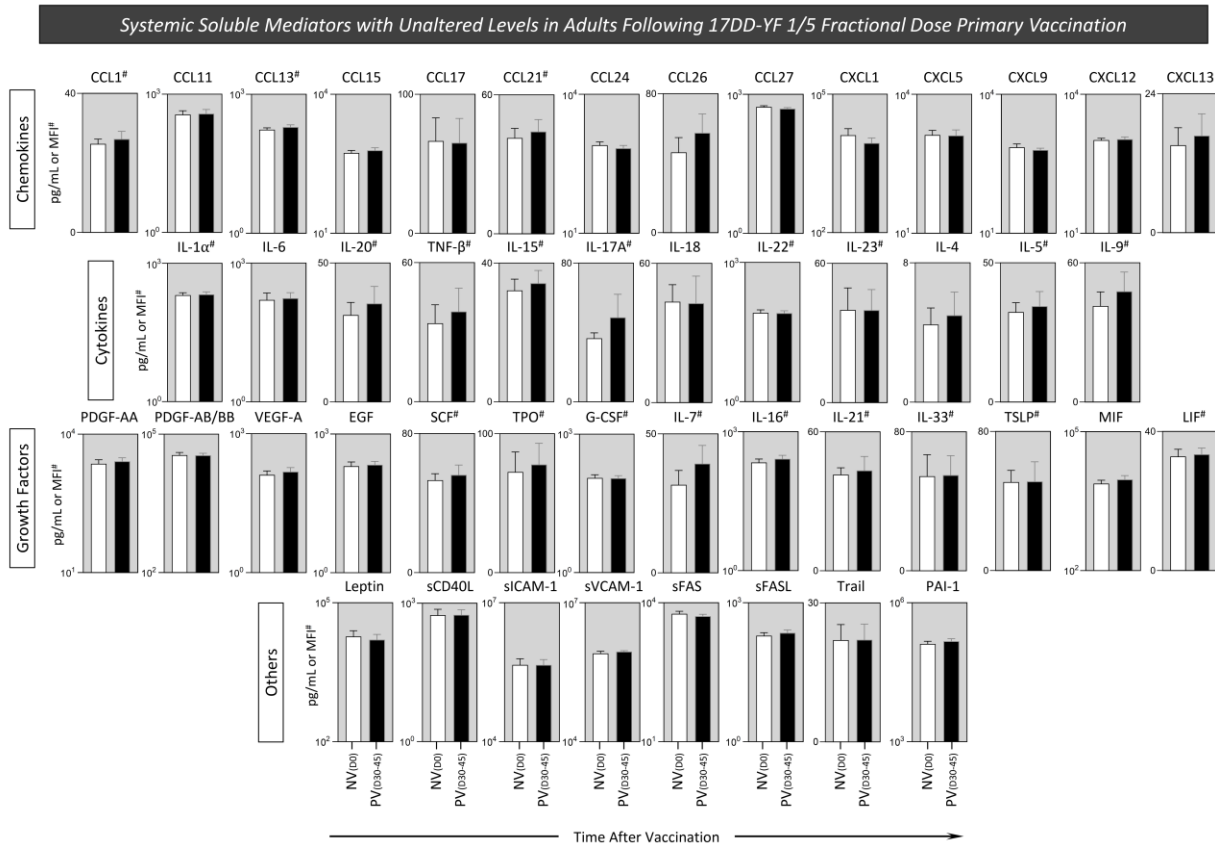
Laise Rodrigues Reis; Ismael Artur Costa-Rocha; Ana Carolina Campi-Azevedo; Vanessa Peruhype-Magalhães; Márcio Sobreira Silva Araújo; Elaine Speziali; Rosiane Aparecida da Silva-Pereira; Lis Ribeiro do Valle Antonelli; Thais Abdala-Torres; Gregório Guilherme Almeida; Eder Gatti Fernandes; Francieli Fontana Sutile Tardetti Fantinato; Carla Magda Allan Santos Domingues; Maria Cristina Ferreira Lemos; Alexandre Chieppe; Jandira Aparecida Campos Lemos; Jordana Graziela Coelho-dos-Reis; Sheila Maria Barbosa de Lima; Adriana de Souza Azevedo; Waleska Dias Schwarcz; Luiz Antônio Bastos Camacho; Maria de Lourdes de Sousa Maia; Tatiana Guimarães de Noronha; Caroline Duault; Yael Rosenberg-Hasson; Andréa Teixeira-Carvalho; Holden Terry Maecker*; Olindo Assis Martins-Filho* and Collaborative Group for Studies of Yellow Fever Vaccine

Representative Gating Strategies for Phenotypic and Functional Analysis of T and B-cells following in vitro Stimuli with 17DD-YF Vaccine



Supplementary Figure 1. Representative gating strategies for phenotypic and functional analysis of T and B-cells following in vitro stimuli with 17DD-YF vaccine. Ungated events were sequentially analyzed using Cytobank shared cloud-based platform using a set of gating strategies as follows: i) 140Ce beads vs 191Ir DNA1 gating to select cells; ii) 193Ir DNA2 vs 191Ir DNA1 plot was used to select singlets identified as positive cells for DNA markers; iii) intact singlets were identified on Event length vs 193Ir DNA2 plot; iv) live intact singlets were gated as negative events for 115In live-dead cell marker; v) lymphocytes were selected as negative events on 160Gd CD14 vs 158Gd CD33 plot; vi) T-cells were gated as 154Sm CD3 positive cells and B-cells selected amongst non-T-cells as 142Nd CD19 positive cells; vii) additional phenotypic/functional features were assessed within gated B and T-cells as illustrated by 167Er CD27 vs 156Gd CD38

and 170Er IgD vs 167Er CD27 for B-cells and 153Eu CD45RA vs 169Tm CCR7 and 161Dy IFN- γ or I43Nd IL-10 vs 145Nd CD4 and 146Nd CD8 for T-cell subsets.



Supplementary Figure 2. Systemic soluble mediators with unaltered levels in adults following 17DD-YF 1/5 fractional dose primary vaccination. Systemic soluble mediators were measured in plasma samples from all volunteers before (NV_(D0) = □, n=15) and 30-45 days after (PV_(D30-45) = ■, n=15) 17DD-YF 1/5 fractional dose primary vaccination. Measurements were carried out by xMAP technology as described in Materials and Methods. The results are shown as mean values \pm standard error of plasma concentration expressed in pg/mL or MFI (#). Comparative analysis between NV_(D0) and PV_(D30-45) was carried out by Student t test. No significant differences were observed between groups at $p < 0.05$. Gray background underscores unaltered values observed at PV_(D30-45) as compared to NV_(D0).