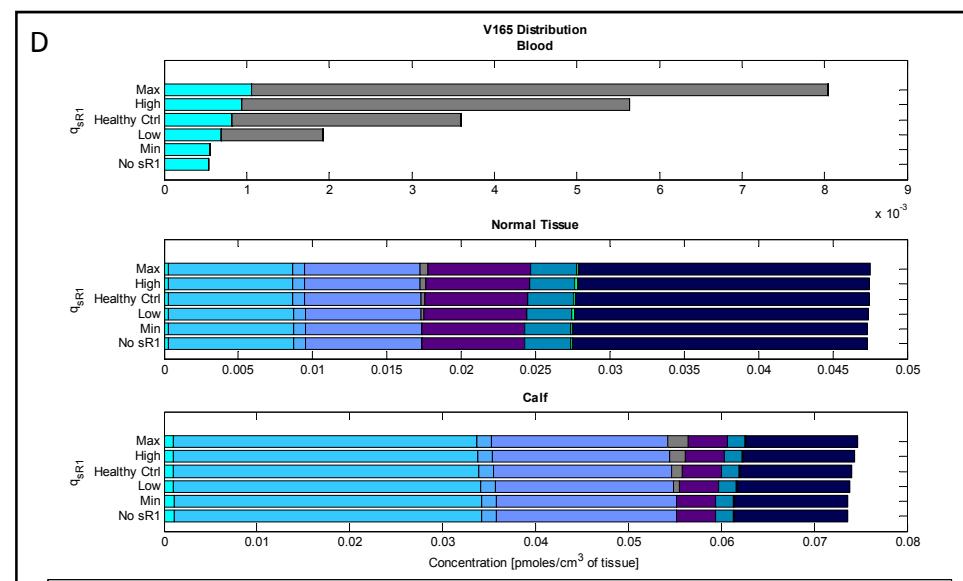
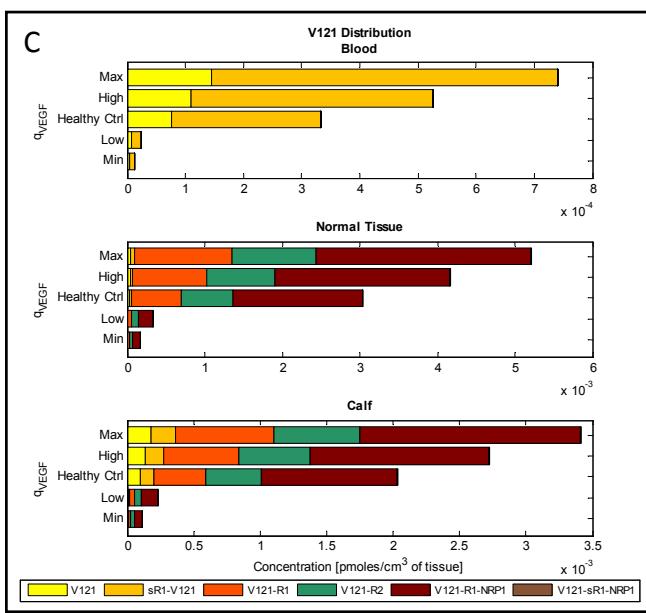
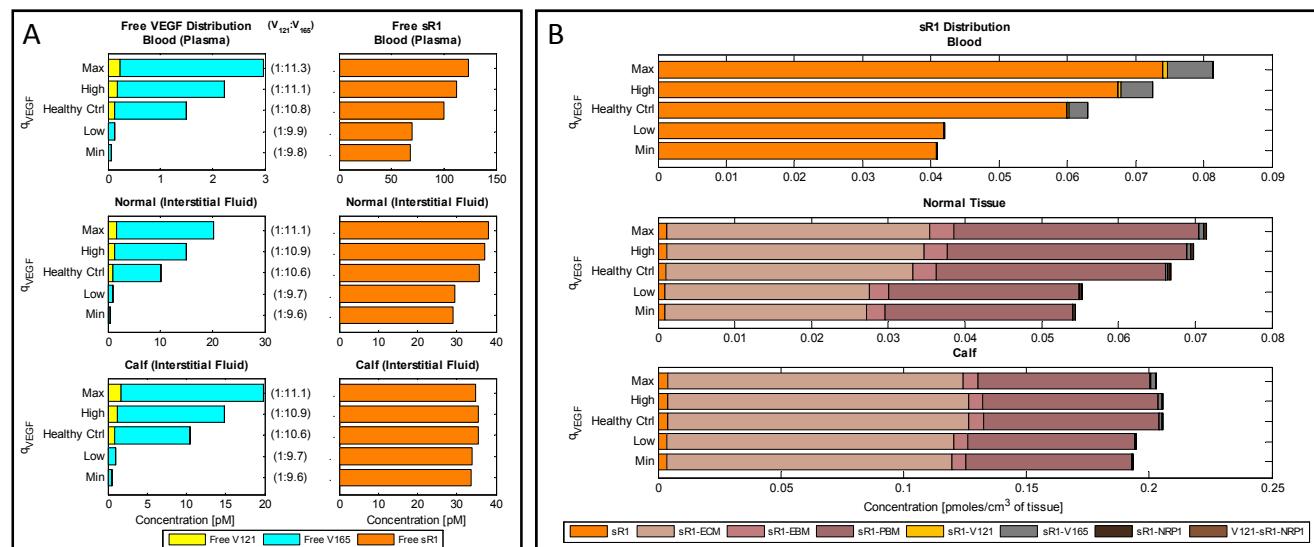
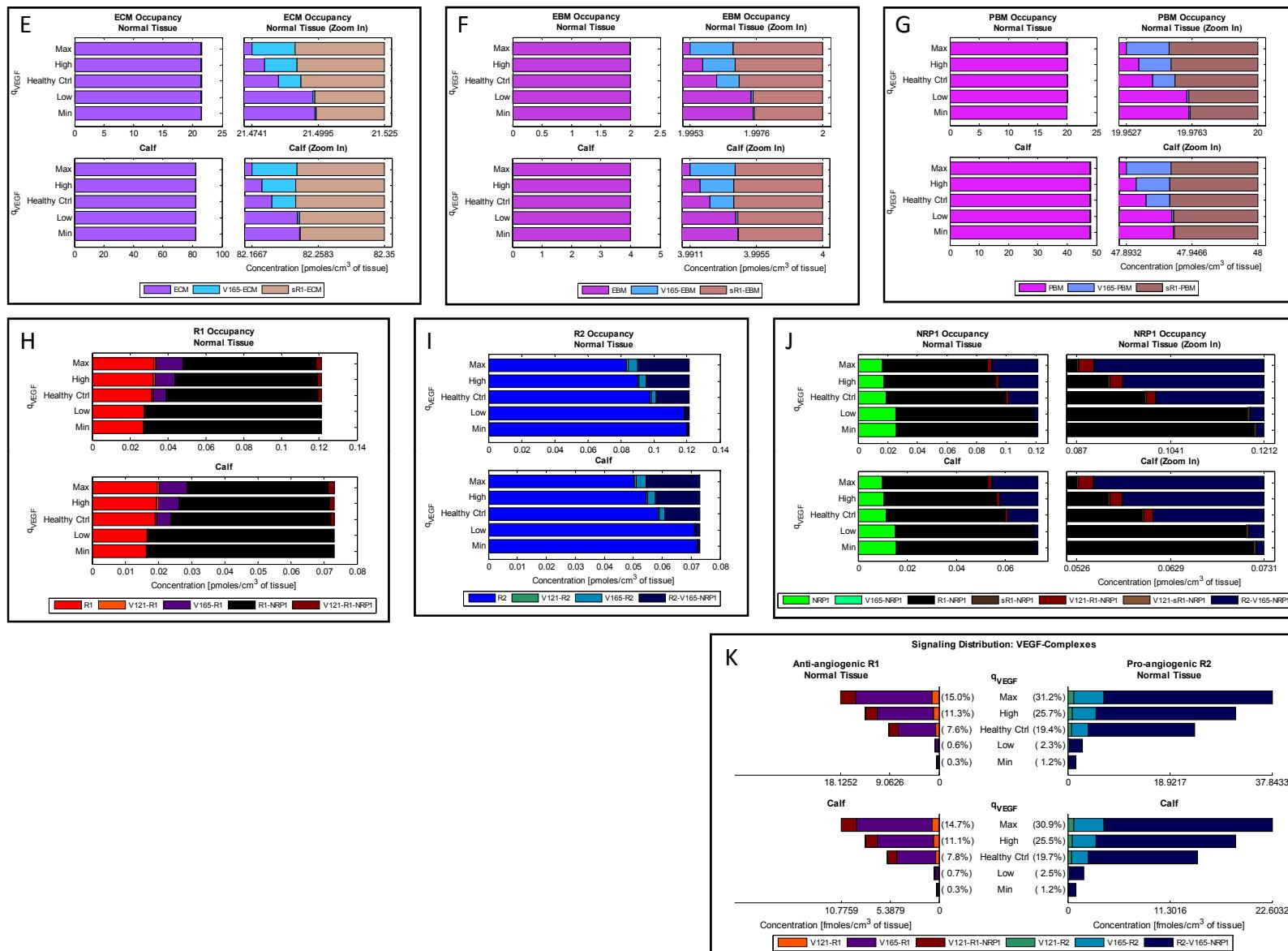


**Healthy Subject: Varying  
VEGF-secretion rate,  
 $q_{\text{TotalVEGF}}$  (molecule/MD/s)**

$q_{\text{VEGF\_Total}} = q_{V121} + q_{V165}$ @1:10	Normal	Calf
[ molecule/MD/sec ; mole/(cm <sup>3</sup> tissue)/sec ]		
Max	$3.30 \times 10^{-1}$ ; $1.59 \times 10^{-17}$	$1.93 \times 10^{-1}$ ; $9.55 \times 10^{-18}$
High	$2.64 \times 10^{-1}$ ; $1.27 \times 10^{-17}$	$1.54 \times 10^{-1}$ ; $7.64 \times 10^{-18}$
Healthy Ctrl	$1.93 \times 10^{-1}$ ; $9.28 \times 10^{-18}$	$1.16 \times 10^{-1}$ ; $5.73 \times 10^{-18}$
Low	$2.09 \times 10^{-2}$ ; $1.01 \times 10^{-18}$	$1.32 \times 10^{-2}$ ; $6.55 \times 10^{-19}$
Min	$1.10 \times 10^{-2}$ ; $5.30 \times 10^{-19}$	$6.60 \times 10^{-3}$ ; $3.28 \times 10^{-19}$



**Supplemental Figure S1. Healthy Subject: Complete Molecular Distribution Analysis for Varying VEGF Secretion Rates.** (A) Free VEGF and free sVEGFR1 distributions. (B) Total sVEGFR1 distribution. (C) Total VEGF<sub>121</sub> distribution. (D) Total VEGF<sub>165</sub> distribution. (continued on next page)



**Supplemental Figure S1. (continued)**

**(E)** Extracellular matrix binding site occupancies. **(F)** Endothelial basement membrane binding site occupancies. **(G)** Parenchymal basement membrane binding site occupancies. **(H)** VEGFR1 occupancies. **(I)** VEGFR2 occupancies. **(J)** NRP1 occupancies. **(K)** VEGF-bound VEGFR complexes.