**An IFN/STAT1/CYBB Axis Defines Protective Plasmacytoid DC to Neutrophil Crosstalk in *Aspergillus fumigatus*-Infected mice**

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**Footnote**

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## **Key Resources Tables.**

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| **Table 1. Antibodies** |  | |  |
| REAGENT or RESOURCE | | SOURCE | IDENTIFIER |
| APC Mouse anti-Mouse CD45.1 (clone A20) | | BD Bioscience | Cat # 558701; RRID: AB\_1645214 |
| PerCP-Cy™5.5 Mouse anti-Mouse CD45.2 (clone 104) | | BD Bioscience | Cat # 552950; RRID: AB\_394528 |
| APC-Cy™7 Rat anti-Mouse CD45 (clone 30-F11) | | BD Bioscience | Cat # 557659; RRID: AB\_396774 |
| PerCP-Cy™5.5 Rat anti-CD11b (clone M1/70) | | BD Bioscience | Cat # 550993; RRID: AB\_394002 |
| PE-Cy™7 Hamster anti-Mouse CD11c (clone HL3) | | BD Bioscience | Cat # 558079; RRID: AB\_647251 |
| BV 605™ anti-mouse CD11c Antibody (clone N418) | | BioLegend | Cat # 117334; RRID: AB\_117334 |
| PE-Cy™7 Rat Anti-Mouse Ly6C (clone AL-21) | | BD Bioscience | Cat # 560593; RRID: AB\_1727557 |
| FITC Rat anti-Mouse Ly6G (clone 1A8) | | BD Bioscience | Cat # 551460; RRID: AB\_394207 |
| FITC Rat anti-Mouse CD45R/B220 (clone RA3-6B2) | | BD Bioscience | Cat # 553087; RRID: AB\_394617 |
| PE anti-mouse CD183 Antibody (clone CXCR3-173) | | BioLegend | Cat # 126505; RRID: AB\_1027656 |
| BV421 Rat Anti-Mouse SiglecF (clone E50-2440) | | BD Bioscience | Cat # 562681; RRID: AB\_2722581 |
| BV605 Rat Anti-Mouse SiglecH (clone 440c) | | BD Bioscience | Cat # 747673; RRID: AB\_2744234 |
| Purified Rat Anti-Mouse CD16/CD32 (clone 2.4G2) | | BD Bioscience | Cat # 553142; RRID: AB\_394657 |
| eFluor 450 NK1.1 Monoclonal Antibody (clone PK136) | | eBioscience | Cat # 48-5941-80; RRID: AB\_2043878 |
| eFluor 450 CD19 Monoclonal Antibody (clone eBio1D3) | | eBioscience | Cat # 48-0193-82; RRID: AB\_2734905 |
| Alexa Fluor 700, I-A/I-E Monoclonal Antibody (clone M5/114.15.2) | | eBioscience | Cat # 56-53-21; RRID: AB\_494009 |
| FITC Mouse IgG1 kappa Isotype Control | | eBioscience | Cat # 11-4714-42; RRID: AB\_10596964 |
| PE Rat IgG2a kappa Isotype Control | | eBioscience | Cat # 12-4321-42; RRID: AB\_1518773 |
| PerCP-Cyanine5.5 IgG Isotype Control | | eBioscience | Cat # 45-4888-80; RRID: AB\_906260 |
| APC Rat IgG2b kappa Isotype Control | | eBioscience | Cat # 17-4031-82; RRID: AB\_470176 |
| APC-eFluor 780 Rat IgG2b kappa Isotype Control | | eBioscience | Cat # 47-4031-80; RRID: AB\_1272021 |
| Alexa Fluor 700 Rat IgG2b kappa Isotype Control | | eBioscience | Cat # 56-4031-80; RRID: AB\_837123 |
| PE-Cyanine7 Rat IgG2a kappa Isotype Control | | eBioscience | Cat # 25-4321-82; RRID: AB\_470200 |
| eFluor 450 Rat IgG1 kappa Isotype Control | | eBioscience | Cat # 48-4301-82; RRID: AB\_1271984 |

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| **Table 2. *Aspergillus fumigatus* Strains** | | |
| REAGENT or RESOURCE | SOURCE | IDENTIFIER |
| Af293 | Fungal genetics stock center | Cat #A1100 |
| Af293 dsRed | (25) | N/A |
| CEA10 (also known as CBS144.89) | (58) | Received form Robert Cramer (Dartmouth) |

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| **Table 3. Chemicals, Peptides, and Recombinant Proteins** | | |
| REAGENT or RESOURCE | SOURCE | IDENTIFIER |
| Alexa Fluor 633 succinimidyl ester | Invitrogen | Cat # S12375 |
| Collagenase IV | ThermoFisher Scientific | Cat#LS004189 |
| RPMI-1640 | RPMI-1640 | Cat # 21870092 |
| Enrofloxacin | Bayer | Baytril 100 |
| Voriconazole | Pfizer | N/A |
| Tween-20 | Sigma | Cat # P9416 |
| Protease Inhibitor Cocktail | Roche | Cat # 11697498001 |
| DNase I, Grade II | Sigma | Cat # 10104159001 |
| isoflurane | Henry Schein Animal Health | Cat # 29405 |
| Diphtheria toxin (DT) | List Biological Laboratories | Cat # 150 |
| Paraformaldehyde, 32% Solution | ThermoFisher Scientific | Cat # 50-980-495 |
| CM-H2DCFDA | ThermoFisher Scientific | Cat # C6827 |
| 10× HBSS | ThermoFisher Scientific | Cat # 14065056 |
| TRIzol-LS | Invitrogen | Cat # 10296028 |
| Mouse IFNa2/4 ELISA kit | Invitrogen | Cat # BMS6027 |
| Mouse IL-28B/IFN-lambda 3 DuoSet ELISA | Invitrogen | Cat # DY1789B-05 |
| Mouse GM-CSF DuoSet ELISA | Invitrogen | Cat # DY415-05 |
| Mouse TNF alpha ELISA Ready-SET-Go!™ Kit | Invitrogen | Cat # 50-173-31 |
| Mouse IL-6 ELISA Ready-SET-Go!™ Kit | Invitrogen | Cat # 50-172-19 |
| Mouse IL-1 beta ELISA Kit | Invitrogen | Cat # BMS6002 |
| Mouse IL-12 p70 ELISA Kit | Invitrogen | Cat # BMS6004 |
| High-Capacity RNA-to-cDNA Kit | Appliedbiosystems | Cat # 4387406 |
| Ribosomal RNA Control Reagents | Appliedbiosystems | Cat # 4308329 |
| IFNa2 TaqMan Assay Mm00833961\_s1 | Thermo Fisher | Cat # 4331182 |
| IFNa1/a5/a6 TaqMan Assay Mm03030145\_gH | Thermo Fisher | Cat # 4331182 |
| IFNL2/3 TaqMan Assay Mm04204155\_gH | Thermo Fisher | Cat # 4331182 |

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| **Table 4. Mouse Strains** | | |
| REAGENT or RESOURCE | SOURCE | IDENTIFIER |
| BDCA2-DTR | The Jackson Laboratory | JAX: 014176 |
| C57BL/6 | The Jackson Laboratory | JAX: 000664 |
| C57BL/6.SJL | Taconic | Stock No. 4007 |
| *Stat1-/-* mice | The Jackson Laboratory | JAX: 012606 |
| *GBPchr3-/-*mice |  | Received from Dr. Thirumala-Devi Kanneganti (St. Jude’s) |
| *Cybb*-/- mice | The Jackson Laboratory | JAX: 002365 |

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| **Table 5. Software and Algorithms** | | |
| Prism 10 | Prism 10 | N/A |
| Flow Jo 10.10.0 | Flow Jo 10.10.0 | N/A |
| Biorender | https://www.biorender.com |  |