

Paula D. Bos, PhD



Assistant Professor
Department of Pathology
Massey Cancer Center
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Education

Postgraduate Training

Memorial Sloan-Kettering Cancer Center

Graduate Education

PhD, Weill Cornell Graduate School of Medical Sciences - Cornell University M.Sc.

Weill Cornell Graduate School of Medical Sciences - Cornell University

Recent Awards

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| 2021 | American Cancer Society Scholar |
| 2019 | Outstanding Early Career Faculty Nominee – VCU School of Medicine |
| 2018 | V Foundation Scholar |
| 2018 | Susan G. Komen Career Catalyst Award |
| 2010 | American Cancer Society Post-doctoral award |
| 2010 | National Institutes of Health, Immunology Training Grant, Memorial Sloan |

VCU Service and Teaching

Flow Cytometry Core Facility Advisor – Massey Cancer Center

MD-PhD Steering Committee Member

American Cancer Society Institutional Research Grants Review Committee

Molecules to Medicine (M2M), VETAR, Presidential Research Quest Fund, PostDoc Small Grant Program, Massey Cancer Center Pilot Reviewer

Immunity and Infection – MEDI-114 Medical Course

Immunobiology – MICR-505

Microbiology Research Seminar – MICR-690

Advanced Immunology Graduate Course – MICR-606

Biology of Cancer Graduate Course – BIO-450

Professional Organizations

American Association for Cancer Research

Metastasis Research Society

Recent Invited Presentations

2022	Metastasis Research Society Biennial Meeting, Buenos Aires, Argentina
2022	Baylor College of Medicine & MDAnderson Cancer Center, Update on Advanced Breast
May 2022	Cancer: Local Management and Other New Perspectives, Houston, TX
April 2022	Lineberger Comprehensive Cancer Center Annual Symposium, UNC
Feb. 2022	West Virginia Cancer Center, West Virginia
Jan. 2022	University of Illinois at Chicago, Department of Physiology and Biophysics Seminar Series, IL

- Nov. 2021 Metastasis Symposium, Columbia University Irving Medical Center, Plenary Speaker and Session Co-Chair
- Nov. 2021 Metastasis Research Society Biennial Meeting, Virtual Meeting
- Nov. 2021 Forbeck Forum, Immunotherapies and mechanisms of immune escape, *in person-only, declined due to Covid-19 travel restrictions.*
- Sept. 2021 8th Annual Metastatic Breast Cancer Research Conference, Huntsman Cancer Institute, Salt Lake City, Utah
- May 2021 Tischl Cancer Institute Translational Oncology Seminar Series, Mount Sinai School of Medicine, NY
- April 2021 V Foundation Scholar Summit

Recent Publications

https://www.ncbi.nlm.nih.gov/myncbi/12_rgqaCBxX/bibliography/public/

Selected Recent Peer Reviewed Publications

Clark NM, Martinez LM, Murdock S, deLigio JT, Olex AL, Effi C, Dozmorov MG, Bos PD. [Regulatory T Cells Support Breast Cancer Progression by Opposing IFN- \$\gamma\$ -Dependent Functional Reprogramming of Myeloid Cells.](#) **Cell Rep.** **2020** Dec 8;33(10):108482. doi: 10.1016/j.celrep.2020.108482. PubMed PMID: 33296659; PubMed Central PMCID: PMC7811278.

Alhudaithi SS, Almuqbil RM, Zhang H, Bielski ER, Du W, Sunbul FS, Bos PD, da Rocha SRP. [Local Targeting of Lung-Tumor-Associated Macrophages with Pulmonary Delivery of a CSF-1R Inhibitor for the Treatment of Breast Cancer Lung Metastases.](#) **Mol Pharm.** **2020** Dec 7;17(12):4691-4703. doi: 10.1021/acs.molpharmaceut.0c00983. Epub 2020 Nov 10. PubMed PMID: 33170724; PubMed Central PMCID: PMC8060921.

Martinez LM, Robila V, Clark NM, Du W, Idowu MO, Rutkowski MR, Bos PD. [Regulatory T Cells Control the Switch From *in situ* to Invasive Breast Cancer.](#) **Front Immunol.** **2019**;10:1942. doi: 10.3389/fimmu.2019.01942. eCollection 2019. PubMed PMID: 31555258; PubMed Central PMCID: PMC6727150.

Buchta Rosean C, Bostic RR, Ferey JCM, Feng TY, Azar FN, Tung KS, Dozmorov MG, Smirnova E, Bos PD, Rutkowski MR. [Preexisting Commensal Dysbiosis Is a Host-Intrinsic Regulator of Tissue Inflammation and Tumor Cell Dissemination in Hormone Receptor-Positive Breast Cancer.](#) *Cancer Res.* **2019** Jul 15;79(14):3662-3675. doi: 10.1158/0008-5472.CAN-18-3464. Epub 2019 May 7. PubMed PMID: 31064848; PubMed Central PMCID: PMC6983951.

Book Chapters

Du W and **Bos PD.** (2019) "Tracing bone marrow derived microglia in brain metastatic tumors" - MIE (Galluzzi) Tumor Immunology and Immunotherapy – Integrated Methods Volume 635 – *in press*

Clark, NM and **Bos, PD.** (2018) "Tumor-Associated Macrophage isolation and *in vivo* analysis of their tumor promoting activity", Invited Book Chapter, Cancer Immun-surveillance: Methods and Protocols, Springer, *in press*