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Danilo G. Macalinao, PhD

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Student, St. Joseph's Seminary, Washington, DC

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Email

dmacalinao@paulist.org

Dissertation

[Mechanisms of Metastatic Latency and Outgrowth in HER2+ Breast Cancer \(2018\)](#)

Mentor

[Joan Massagué, PhD](#)

Start Year

2011

End Year

2018

Education

Wesleyan University

When I was about 6, my great-grandmother, who was a public-school science administrator, showed me a bird's feather under a microscope. Seeing it up close was pretty spectacular and moving for me. Since then, I've been curious about understanding the many forces and phenomena around us that can't readily be seen. The small community feel of the Gerstner Sloan Kettering program was a major factor in my decision to enter the program. The relatively small size of the student body facilitates developing more meaningful relationships with your peers. GSK students try to cultivate an environment where everyone looks out for each other.

Fellowships

Grayer Fellowship (2013-2014)

[Robert B. Catell Fellowship](#) (2012-2013)

Publications

[Basnet H, Tian L, Ganesh K, Huang YH, Macalinao DG, Brogi E, Finley LW, Massagué J. \(2019\) Flura-seq identifies organ-specific metabolic adaptations during early metastatic colonization. *Elife*. 8, pii: e43627. PMID: PMC6440742.](#)

[Boire A, Zou Y, Shieh J, Macalinao DG, Pentsova E, Massagué J. \(2017\) Complement Component 3 Adapts the Cerebrospinal Fluid for Leptomeningeal Metastasis. *Cell* 168, 1101-1113.](#)

[Malladi S, Macalinao DG, Jin X, He L, Basnet H, Zou Y, de Stanchina E, Massagué J. \(2016\) Metastatic Latency and Immune Evasion through Autocrine Inhibition of WNT. *Cell*. 165, 45-60. PMID: PMC4808520.](#)

[Cross SH, Macalinao DG, McKie L, Rose L, Kearney AL, Rainger J, Thaung C, Keighren M, Jadeja S, West K, Kneeland SC, Smith RS, Howell GR, Young F, Robertson M, van T' Hof R, John SW, Jackson IJ. \(2014\). A dominant-negative mutation of mouse *Lmx1b* causes glaucoma and is semi-lethal via LDB1-mediated dimerization. *PLoS Genet.*, 10, e1004359. PMID: PMC4014447.](#)

[Howell GR, MacNicol KH, Braine CE, Soto I, Macalinao DG, Sousa GL, John SW. \(2014\). Combinatorial targeting of early pathways profoundly inhibits neurodegeneration in a mouse model of glaucoma. *Neurobiol Dis.*, 71, 44-52. PMID: PMC4319373.](#)

[Reinholdt LG, Howell GR, Czechanski AM, Macalinao DG, Macnicoll KH, Lin CS, Donahue LR, John SW. \(2012\). Generating Embryonic Stem Cells from the Inbred Mouse Strain DBA/2J, a Model of Glaucoma and Other Complex Diseases. *PLoS One*. 7, e50081. PMID: PMC3507949.](#)

[Howell GR, Soto I, Zhu X, Ryan M, Macalinao DG, Sousa GL, Caddle LB, MacNicol KH, Barbay JM, Porciatti V, Anderson MG, Smith RS, Clark AF, Libby RT, John SW. \(2012\). Radiation treatment inhibits monocyte entry into the optic nerve head and prevents neuronal damage in a mouse model of glaucoma. *J Clin Invest.*, 122, 1246-61. PMID: PMC3314470.](#)

[Nair KS, Hmani-Aifa M, Ali Z, Kearney AL, Ben Salem S, Macalinao DG, Cosma IM, Bouassida W, Hakim B, Benzina Z, Soto I, Söderkvist P, Howell GR, Smith RS, Ayadi H, John SW. \(2011\). Alteration of the serine protease PRSS56 causes angle-closure glaucoma in mice and posterior microphthalmia in humans and mice. *Nat Genet.*, 43, 579-84. PMID: PMC4388060.](#)

[Howell GR, Macalinao DG, Sousa GL, Walden M, Soto I, Kneeland SC, Barbay JM, King BL, Marchant JK, Hibbs M, Stevens B, Barres BA, Clark AF, Libby RT, John SW. \(2011\). Molecular clustering identifies complement and endothelin induction as early events in a mouse model of glaucoma. *J Clin Invest.*, 121, 1429-44. PMID: PMC3069778.](#)

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