

Publications Related To These Projects

Malas, J., Russo, D.C., Bollengier, O., Malaska, M.J., Lopes, R.M.C., Kenig, F., **Meyer-Dombard, D.R.** (2024). Biological functions at high pressure: transcriptome response of *Shewanella oneidensis* MR-1 to hydrostatic pressure relevant to Titan and other icy ocean worlds. *Frontiers in Microbiology*, 15:1293928.

Meyer-Dombard, D.R., Malas, J., Russo, D.C., Kenig, F. (anticipated fall 2025). “Astrobiology of Titan’s subglacial, high pressure ocean: A review and introduction of a relevant experimental system.” In: *Titan After Cassini Huygens*, (Lopes, Elachi, Mueller-Wodarg, Solomonidou, eds). Elsevier.

CONFERENCE ABSTRACTS [PRESENTER IN BOLD, MEYER-DOBARD STUDENTS UNDERLINED]:

CONTRIBUTED ORAL PRESENTATIONS:

20] **Meyer-Dombard, D.R.**, Kenig, F., Malas, J., Russo, D., Kane, W. (2022). High Pressure Astrobiology Research. NASA HBCU/MSI Spring Technology Infusion Road Tour. May 20th 2022.

CONTRIBUTED POSTER PRESENTATIONS:

76] Kenig, F., Bollengier, O., Meyer-Dombard, D., Russo, D., Malas, J., Malaska, M., Lopes, R. (2022). High Pressure Culturing Chamber for Experimentation at Pressure and Temperature Relevant to Titan’s Ocean and Other Ocean Worlds. AbSciCon, 2022.

75] Malas, J., Russo, D., Malaska, M., Kenig, F., Meyer-Dombard, D. (2022). Competition, Recovery, and Habitability under Ocean World Relevant Pressures. AbSciCon, 2022. Abstract # 137-039.

74] Russo, D., Malas, J., Meyer-Dombard, D.R., Kenig, F.P.H. (2022). Under Pressure: Impacts of Titan-like Conditions on Lipids of Piezophiles. AbSciCon 2022.

73] Russo, D., Malas, J., Kenig, F., Meyer-Dombard, D.R. (2021). Putative Lipidomics of Titan’s Subsurface Ocean. American Geophysical Union, Fall Meeting, 2021. Abstract # P45D-2461.

72] Malas, J., Russo, D., Kenig, F., Meyer-Dombard, D.R. (2021). Predicting Biomarkers for Astrobiology using Laboratory Adaptation. Midwest Geobiology Symposium, Indianapolis, Indiana.

65] Malaska, M.J., Lopes, R., Melwani-Daswani, M., Vance, S.D., Meyer-Dombard, D.R., Kenig, F., Bollengier, O., Malas, J. (2020). The deep subsurface of Saturn’s moon Titan as a habitable abode for life. 43rd annual COSPAR meeting, 2020. Abstract#26810.

63] Craft, K.L., Meyer-Dombard, D.R., Dombard, A.J., Oleson, S.R., Newman, J.M, and the NASA Glenn Compass Team. (2019) Dive! Dive! Dive! To Europa’s ocean a tunnelbot concept study. Ocean Worlds 4, Abstract# 6012. Columbia, MD.

61] Dombard, A.J., Meyer-Dombard, Craft, K., Oleson, S.R., Newman, J.M., and NASA Glenn Compass Team. (2019) Unlocking Europa’s Ocean. Astrobiology Science Conference 2019, Abstract #118-015.

60] Kenig, F.P.H., Meyer-Dombard, Vance, S. (2019) What would biosignatures on Titan look like? Astrobiology Science Conference 2019, Abstract #129-070.

58] Dombard, A.J., Meyer-Dombard, D.R., Craft, K., Oleson, S.R., Newman, J.M., and NASA Glenn Compass Team. (2018) [P52C-05 Gone Fishing: A Concept Study of a Tunneling](#)

[Probe Mission to Europa](#) *Eos Trans. AGU*, Fall Meet. Suppl., Abstract P52C-05, American Geophysical Union, Fall Meeting, 2018.