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Functional Genomics
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Scientific Focus Area

Mechanisms affecting cellular reprogramming during stress adaptation and development

Employment

Tenure Track Assistant Professor

Functional Genomics

København N.

1 Jul 2015 → nu

Research outputs since 2015

Going through changes - the role of autophagy during reprogramming and differentiation

Petersen, Morten, Ebstrup, E. & Rodriguez, Eleazar, 2024, In: *Journal of Cell Science*. 137, 4, 10 p., [jcs261655](https://doi.org/10.1242/jcs.261655).

PAT mRNA decapping factors are required for proper development in *Arabidopsis*

Zuo, Zhangli Thomsen, Roux, M. E., Dagdas, Y. F., Rodriguez, Eleazar & Petersen, M., 2024, (E-pub ahead of print) In: *FEBS Letters*.

The mRNA decapping machinery targets *LBD3/ASL9* to mediate apical hook and lateral root development

Zuo, Zhangli Thomsen, Roux, M. E., Chevalier, J. R., Dagdas, Y. F., Yamashino, T., Højgaard, S. D., Knight, E., Østergaard, L., Rodriguez, Eleazar & Petersen, Morten, 2023, In: *Life Science Alliance*. 6, 9, 11 p.

Overexpression of *ATG8/LC3* enhances wound-induced somatic reprogramming in *Physcomitrium patens*

Kanne, J. V., Ishikawa, M., Bressendorff, Simon, Ansbøl, Jeppe, Hasebe, M., Rodriguez, Eleazar & Petersen, Morten, 2022, In: *Autophagy*. 18, 6, p. 1463-1466 4 p.

mRNA Decapping Factors LSM1 and PAT Paralogs Are Involved in Turnip Mosaic Virus Viral Infection

Zuo, Zhangli Thomsen, Roux, M., Rodriguez, Eleazar & Petersen, Morten, 2022, In: *Molecular plant-microbe interactions : MPMI*. 35, 2, p. 125-130 6 p.

Autophagy mediates temporary reprogramming and dedifferentiation in plant somatic cells

Rodriguez, Eleazar, Chevalier, J., Olsen, J., Ansbøl, J., Kapousidou, V., Zuo, Zhangli Thomsen, Svenning, S., Loeffke, C., Koemeda, S., Drozdowskyj, P. S., Jez, J., Durnberger, G., Kuenzl, F., Schutzbier, M., Mechtler, K., Ebstrup, E. N., Lolle, S., Dagdas, Y. & Petersen, Morten, 2020, In: *EMBO Journal*. 39, 4, 11 p., [e103315](https://doi.org/10.1093/emboj/kdab01).

DNA damage as a consequence of NLR activation

Rodriguez, Eleazar, Chevalier, J., El Ghoul, H., Voldum-Clausen, K., Mundy, J. & Petersen, Morten, 2018, In: *PLOS Genetics*. 14, 2, 17 p., [e1007235](https://doi.org/10.1371/journal.pgen.1007235).

Individual components of paired typical NLR immune receptors are regulated by distinct E3 ligases

Dong, O. X., Ao, K., Xu, F., Johnson, K. C. M., Wu, Y., Li, L., Xia, S., Liu, Y., Huang, Y., Rodriguez, Eleazar, Chen, X., Chen, S., Zhang, Y., Petersen, Morten & Li, X., 2018, In: *Nature Plants*. 4, 9, p. 699-710

Matching NLR immune receptors to autoimmunity in *camta3* mutants using antimorphic NLR alleles

Lolle, S., Greeff, M. C., Petersen, K., Roux, M. E., Jensen, M. K., Bressendorff, Simon, Rodriguez, Eleazar, Sørmark, K., Mundy, J. & Petersen, Morten, 2017, In: Cell Host & Microbe. 21, 4, p. 518-529 12 p.

Making sense of plant autoimmunity and "negative regulators"

Rodriguez, Eleazar, Ghoul, H. E., Mundy, J. & Petersen, Morten, 2016, In: F E B S Journal. 283, 8, p. 1385-1391 7 p.

Supervision and Teaching

Supervised >12 MSc students, 3 PhD students, since 2012

Current teaching: Molecular Biology, Plant Molecular Biology, Experimental Higher Model Organisms.