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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.

**NBR1-mediated selective autophagy of ARF7 modulates root branching**

Ebstrup, E., Ansbøl, J., Paez-Garcia, A., Culp, H., Chevalier, J., Clemmens, P., Coll, N. S., Moreno-Risueno, M. A. & Rodriguez, Eleazar, 2024, (E-pub ahead of print) In: *EMBO Reports*.

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

Zuo, Zhangli Thomsen, Roux, M. E., Dagdas, Y. F., Rodriguez, Eleazar & Petersen, Morten, 2024, In: *FEBS Letters*. 598, 9, p. 1008-1021 14 p.

**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.

**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.

**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, Sømark, 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.