

Mateusz Witold de Mezer, Ph.D.

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Education:

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| 2006 | Ph. D., Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań, Ph. D. thesis: "Structure of trinucleotide repeat region in mRNA of <i>IT15</i> gene associated with Huntington disease" |
| 2000 | M.Sc. (Molecular Biology), Institute of Molecular Biology and Biotechnology, A. Mickiewicz University in Poznań, Poland. M.Sc. final year project: "Structure of region containing trinucleotide repeats in transcript of Huntington disease gene" realized in Laboratory of Cancer Genetics, Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań. |

Work experience:

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| 2010 – now | Researcher, Laboratory of Functional Genomics, Institute of Plant Genetics Polish Academy of Sciences in Poznań |
| 2006 - 2009 | Researcher, Laboratory of Cancer Genetics, Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań |
| 2001 - 2005 | Ph.D. student, Laboratory of Cancer Genetics, Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań |
| 2000 | Research assistant, Laboratory of Cancer Genetics, Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań |
| 1999 | M.Sc. student, Laboratory of Cancer Genetics, Institute of Bioorganic Chemistry Polish Academy of Sciences in Poznań |

Research interests

Molecular mechanisms of plant adaptation to water deficit

Publications

SOBCZAK K, MICHLEWSKI G, DE MEZER M, KROL J, KRZYZOSIAK WJ. (2010) Trinucleotide repeat system for sequence specificity analysis of RNA structure probing reagents. *Anal. Biochem.* 402:40-46

KOZLOWSKI P, DE MEZER M, KRZYZOSIAK WJ. (2010) Trinucleotide repeats in human genome and exome. *Nucleic Acids Res.* [Epub ahead of print]

SOBCZAK K, MICHLEWSKI G, DE MEZER M, KIERZEK E, KROL J, OLEJNICZAK M, KIERZEK R, KRZYZOSIAK WJ. (2010). Structural diversity of triplet repeat RNAs. *J. Biol. Chem.* 285:12755-12764

KROL J, FISZER A, MYKOWSKA A, SOBCZAK K, DE MEZER M, KRZYZOSIAK WJ. (2007). Ribonuclease dicer cleaves triplet repeat hairpins into shorter repeats that silence specific targets. *Mol. Cell.* 25: 575-586

NAPIERALA M, MICHALOWSKI D, DE MEZER M, KRZYZOSIAK WJ. (2005). Facile FMR1 mRNA structure regulation by interruptions in CGG repeats. *Nucleic. Acids. Res.* 33: 451-463

SOBCZAK K., DE MEZER M., MICHLEWSKI G., KROL J., KRZYZOSIAK W.J. (2003). RNA structure of trinucleotide repeats associated with human neurological diseases. *Nucleic Acids Res.* 31: 5469-5482

JASINSKA A., MICHLEWSKI G., DE MEZER M., SOBCZAK K., KOZLOWSKI P., NAPIERALA M., KRZYZOSIAK W.J. (2003). Structures of trinucleotide repeats in human transcripts and their functional implications. *Nucleic. Acids. Res.* 31: 5463-5468

ZIELONKA D., DE MEZER M., NIEZGODA A., REPEROWICZ K., KRZYZOSIAK W., KOZUBSKI W. (2002) Clinical picture of patients with Huntington's disease in relation to the number of trinucleotide CAG repeats in IT-15 gene. *Neurol. Neurochir. Pol.* 36: 903-909.

Awards

- J.K. Parnas Award founded by Polish Biochemical Society for authors of the best publication prepared in Polish laboratory in 2008
- Polish Genetical Society Award for Włodzimierz Krzyzosiak's Team from Institute of Bioorganic Chemistry Polish Academy of Sciences for authors of the series of the 10 publications in 2004 – 2006
- Award of the year founded by the director of the Institute of Bioorganic Chemistry Polish Academy of Sciences for author of the best Ph. D. dissertation