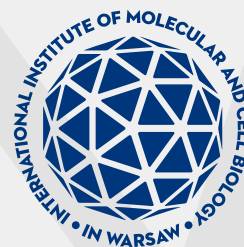
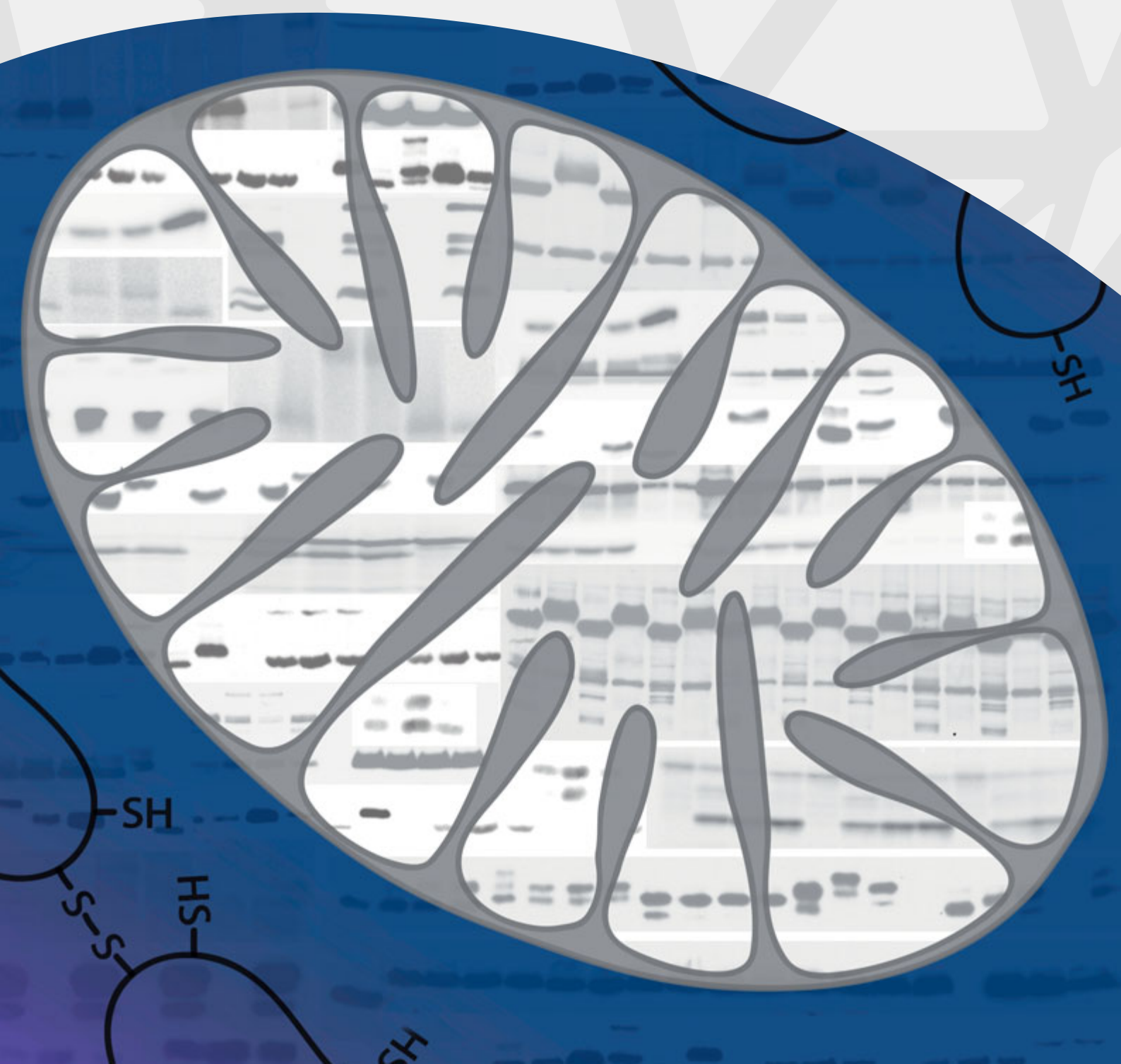


INTERNATIONAL INSTITUTE  
OF MOLECULAR AND CELL BIOLOGY  
IN WARSAW



# Annual Report

January 2015 – April 2016





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The leitmotif for this year's annual report is the mitochondrion – to emphasize an exceptional achievement of the Mitochondrial Biogenesis Lab Team who published their research in the prestigious Nature journal (**Wrobel L, Topf U, Bragoszewski P, Wiese S, Sztolsztener ME, Oeljeklaus S, Varabyova A, Lirski M, Chrościcki P, Mroczek S, Januszewicz E, Dziembowski A, Koblowska M, Warscheid B, Chacinska A**. Mistargeted mitochondrial proteins activate a proteostatic response in the cytosol. Nature, 2015; 524:485-488)

**ISBN 978-83-944616-0-7**

# Best IIMCB papers in 2015 selected by Institute's Pls

**SimRNA: a coarse-grained method for RNA folding simulations and 3D structure prediction.**

**Boniecki MJ, Lach G, Dawson WK, Tomala K, Lukasz P, Soltysinski T, Rother KM, Bujnicki JM.**

Nucleic Acids Res. 2015.

**Retro-translocation of mitochondrial intermembrane space proteins.**

**Bragoszewski P, Wasilewski M, Sakowska P, Gornicka A, Böttinger L, Qiu J, Wiedemann N, Chacinska A.**

Proc Natl Acad Sci U S A. 2015.

**Structural and Mechanistic Analysis of the Slx1-Slx4 Endonuclease.**

**Gaur V, Wyatt HD, Komorowska W, Szczepanowski RH, de Sanctis D, Gorecka KM, West SC, Nowotny M.**

Cell Rep. 2015.

**Sequence-specific cleavage of dsRNA by Mini-III RNase.**

**Głów D, Pianka D, Sulej AA, Kozłowski ŁP, Czarnecka J, Chojnowski G, Skowronek KJ, Bujnicki JM.**

Nucleic Acids Res. 2015.

**Tuberous sclerosis complex neuropathology requires glutamate-cysteine ligase.**

**Malik AR, Liszewska E, Skalecka A, Urbanska M, Iyer AM, Swiech LJ, Perycz M, Parobczak K, Pietruszka P,**

**Zarebska MM, Macias M, Kotulska K, Borkowska J, Grajkowska W, Tyburczy ME, Jozwiak S, Kwiatkowski DJ,**

**Aronica E, Jaworski J. Acta Neuropathol Commun. 2015 Jul 30;3:48.**

**Endocytic Adaptor Protein Tollip Inhibits Canonical Wnt Signaling.**

**Toruń A, Szymańska E, Castanon I, Wolińska-Nizioł L, Bartosik A, Jastrzębski K, Miętkowska M, González-**

**-Gaitán M, Miaczynska M. PLoS One. 2015.**

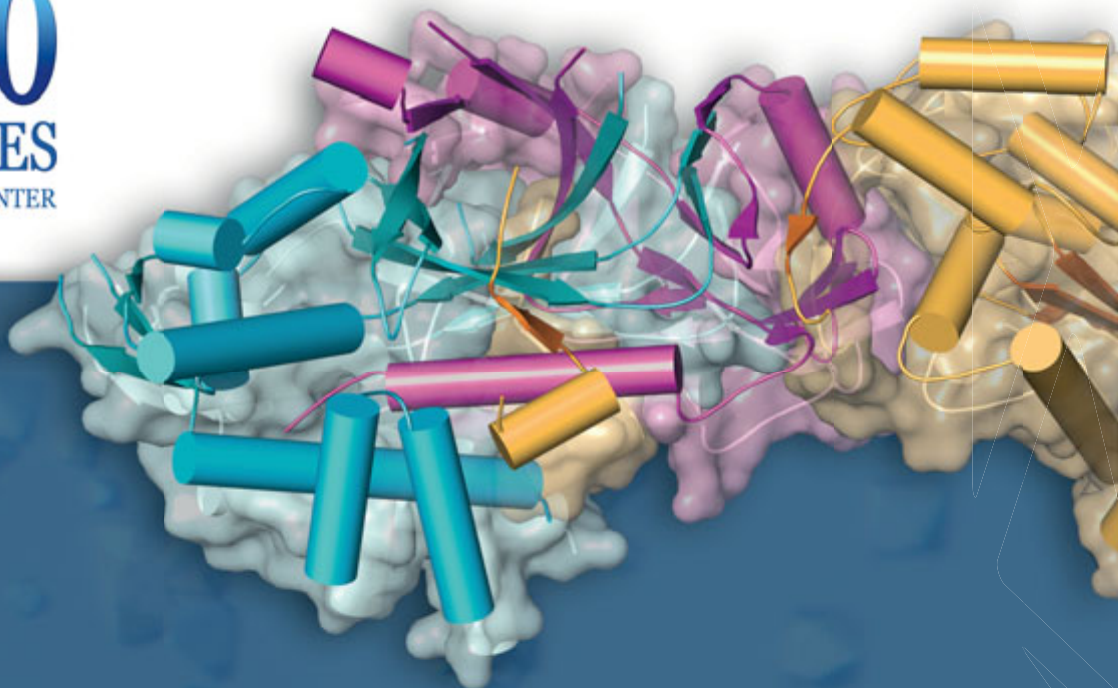
**Mistargeted mitochondrial proteins activate a proteostatic response in the cytosol.**

**Wrobel L, Topf U, Bragoszewski P, Wiese S, Sztolsztener ME, Oeljeklaus S, Varabyova A, Lirski M, Chroscicki**

**P, Mroczek S, Januszewicz E, Dziembowski A, Koblowska M, Warscheid B, Chacinska A. Nature. 2015.**

(in alphabetical order)





## DIFFICULT CHALLENGES ARE WHAT OUR TEAM IS MADE FOR

PRO Biostructures – IIMCB Structural Biology Center is a professional partner responsible for X-ray crystallography. The team offers experience in supporting drug discovery projects and other scientific endeavors with both the biotech/pharma industry and academia.

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