

Poster session – 22.05.2018

1. **The noncanonical lysine acetyltransferase activity of Elp3**
Ting-Yu Lin, Norhane Abbassi, Rościław Krutyhołowa, Andrzej Chramiec- Głąbik and Sebastian Glatt*
2. **Analysis of Intracellular Lipid Droplets in Diapaused Blastocysts**
Roberta Arena, Tomasz P. Wróbel, Paulina Koziol, Łukasz Gąsior, Joanna Rudnicka, Grazyna E. Ptak
3. **Conjugation of Proteins to DNA Nanorobots**
Dhanasekaran B.K. , Piotr Stepien, Yusuke Sakai, Jonathan G. Heddle
4. **Adaptive training set selection for classification in mass spectrometry imaging data.**
Katarzyna Bednarczyk, Grzegorz Mrukwa, Joanna Polańska
5. **Elongator-dependent tRNA modifications in human diseases**
Anna Biela, Marta Smejda, Dominika Kądziołka, Sebastian Glatt
6. **An Inducible, Highly-Stable Supramolecular Protein Cage**
Izabela Stupka, Karolina Miszczak,, Michał Kobiałka, Artur Biela, Jonathan Heddle
7. **Role of NCX3 in the regulation of mitochondrial function in cortical neurons during hypoxia.**
Simona Bisogno , Maria Josè Sisalli, Antonella Scorziello, Lucio Annunziato,
8. **Effect of site-directed mutagenesis of amino-acid residues interacting with a phosphatidylglycerol on the function of photosystem II**
Kaichiro Endo, Naoki Mizusawa, Koichi Kobayashi, Hsiu-An Chu, Jian-Ren Shen and Hajime Wada
9. **Assessment of proteolytic control and disruption of kallikreins and matrix metalloproteinases within the extracellular matrix**
K. Falkowski, O. Bochenska, I. Thøgersen, J. Enghild, M. Kalinska, E. Bielecka,, L. Sasiadek, M. Magoch, M. Wisniewska, G. Dubin, A. Lesner, A. Kozik, R. Jonsson, J. Potempa, and T. Kantyka,
10. **Unfinished transcription in immature oocytes leads to aberrant Ca²⁺ homeostasis regulation at metaphase II stage.**
Fluks M, Szczepańska K, Ajduk A.
11. **Analysis of intracellular lipid droplets in oocytes of three mouse strains**
Łukasz Gąsior, Tomasz Wróbel, Roberta Arena, Joanna Rudnicka, Zbigniew Polański, Grażyna Ewa Ptak
12. **Identification and analysis of pexophagy-related mutants in Arabidopsis thaliana**
Shino Goto-Yamada, Katarzyna Sieńko, Kazusato Oikawa, Shoji Mano,, Mikio Nishimura, and Kenji Yamada

- 13. AtomicJ: software for analysis of mechanical properties of biological samples based on force microscopy measurements**
Paweł Hermanowicz, Michał Sarna, Kevta Burda, Halina Gabryś
- 14. Adding to the toolbox of connection chemistries for a standard membrane protein**
Md. Sirajul Islam, Anna Świetlikowska, Gerrit Wilkens, Yusuke Sakai, Jonathan Gardiner Heddle
- 15. Extracellular Vesicles from hiPS Cells Enhance Functional Properties of Human Cord Blood-derived Hematopoietic Stem Cells**
Elżbieta Karnas, Małgorzata Sekuła, Sylwia Bobis-Wozowicz, Katarzyna Kmiotek,, Dariusz Boruczkowski, Zbigniew Madeja and Ewa K. Zuba-Surma
- 16. Procardiomyogenic and proangiogenic properties of extracellular vesicles derived from genetically modified human induced pluripotent stem cells in vitro and in vivo**
Katarzyna Kmiotek-Wasylewska, Sylwia Bobis-Wozowicz, Anna Labeledz-Maslowska, Elzbieta Karnas, Olga Woznicka, Zbigniew Madeja, Ewa K. Zuba-Surma,*

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17. **Study on several plant aldehyde dehydrogenases from moss *Physcomitrella patens***
Radka Končítiková, Martina Kopečná, Eva Hájková, Tereza Libigerová, Armelle Vigouroux, Marek Šebela, Solange Moréra, David Kopečný,*
18. **Dissecting regulatory mechanisms of Elongator complex**
Rościsław Krutyhołowa, Jarosław Mazur, and Sebastian Glatt
19. **A programmable Modular, Molecular “Ball and Glove” with potential for drug delivery**
Mantu Kumar, Yusuke Sakai, Soumyananda Chakroborty, Jonathan G. Heddle
20. **Myd88 – adaptor protein in innate immune signaling.**
Katarzyna Kuśka, Katarzyna Pustelny, Natalia Stach, Bogdan Musielak, Grzegorz Popowicz, Tadeusz Holak, Grzegorz Dubin,
21. **The impact of light on the control of phototropin expression**
Justyna Łabuz, Aneta Bażant, Piotr Zgłobicki, Agnieszka Katarzyna Banaś, Anna Grzyb, Paweł Hermanowicz, Dominika Jagiełło-Flasińska
22. **The patterns of expression of imprinted genes in uniparental placentae of ovine using RNA-seq technology**
Julita Machłowska, Wojciech Branicki, Paweł Łabaj, Grażyna E. Ptak,
23. **Crystal Structure of Mannose specific IIA subunit of phosphotransferase system from *Streptococcus pneumoniae***
M. Magoch, P. Nogły, P. Grudnik, P. Ma, B. Szelązek, G. Dubin,* M. Archer*
24. **Unusual Gold Nanoparticle – Protein Interaction**
Karolina Majsterkiewicz, Jonathan G. Heddle
25. **Creating an intelligent drug delivery system using DNA nanorobot**
Joanna Markiewicz, Martyna Adamiak, Yusuke Sakai, Jonathan Heddle
26. **Structural and biochemical studies of DNA gyrase acting pentapeptide repeat proteins.**
Łukasz Mazurek, Dmitry Ghilarov , Elizabeth Michalczyk , Jonathan Heddle
27. **X-ray crystallography leads PEX5/PEX14 inhibitors optimization**
Valeria Napolitano, Maciej Dawidowski, Grzegorz M. Popowicz, Grzegorz Dubin,
28. **The effect of human iPS - derived extracellular vesicles on the basic functions of keratinocytes**
S. Noga, M. Sekuła, E. Karnas, S. Lasota, S. Bobis-Wozowicz, Z. Madeja and E. K. Zuba-Surma
29. **Structural and functional characterization of Uba4, an essential enzyme in the tRNA thiolation pathway**
Marta Pabis and Sebastian Glatt
30. **Understanding eukaryotic gyrases**

Zuzanna Pakosz, Jonathan Heddle

- 31. The Structural and functional consequences of Urmylation on the Elongator complex during oxidative stress response**

Keerthiraju E. Ravichandran, Sebastian Leidel, Sebastian Glatt

- 32. Solid phase stepwise synthesis of TRAP protein**

Jan Różycki and Jonathan G. Heddle

- 33. Effect of dimethyl sulfoxide and cytochalasin D on the quality and the division plane of mouse oocytes**

Joanna Rudnicka, Łukasz Gąsior, Zbigniew Polański

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- 34. RNA-binding proteins as post-transcriptional regulators in cell fate decision**
Anna Salerno-Kochan, Monika Gaik, Anna Kościelniak, Sebastian Glatt
- 35. Mesenchymal stem cell and graphene-based nomaterials as novel perspectives for biomedical research**
Małgorzata Sekuła, Joanna Jagiełło, Monika Dźwigońska, Edyta Adamczyk, Sylwia Noga, Elżbieta Karnas, Zbigniew Madeja, Ludwika Lipińska, Ewa Zuba-Surma,
- 36. Python: A boon for Biologists**
Mohit K. Sharma, Artur Biela, Jonathan G. Heddle
- 37. Miropin, a bacterial serpin from the periodontopathogen Tannerella forsythia, inhibits human plasmin**
Alicja M. Sochaj-Gregorczyk, Anna Strączek, Jan Potempa, Mirosław Książek,
- 38. Analysis of NAI2 homologous genes that are responsible for ER body formation**
Natalia Stefanik, Jakub Bizan, Shino Goto Yamada, Alwine Wilkens, Katarzyna Tarnawska-Glatt, Kenji Yamada
- 39. Spatial organization of nanodiscs as a model membrane system in membrane protein studies**
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- 40. Highly-stable protein cage for potential drug delivery applications**
Izabela Stupka, Kinga Borzęcka – Solarz, Michał Kobiałka, Jonathan G. Heddle
- 41. P5 protein of Pseudomonas bacteriophage $\phi 6$ is a lytic transglycosylase**
Bożena Szelązek, Mijoon Lee, Przemysław Grudnik,, Małgorzata Magoch,, Shahriar Mobashery, Grzegorz Dubin,
- 42. Purification and initial characterisation of a lipid binding protein**
Anna Świetlikowska, Piotr Stępień, Jonathan Heddle
- 43. Molecular mechanism of the ER body formation**
Katarzyna Tarnawska-Glatt, Kenji Yamada
- 44. Mathematical modelling as a method of feature selection for radiosensitivity biomarkers identification**
Joanna Tobiasz, Najla Al-Harbi, Sara Bin Judia, Salma Majid, Ghazi Alsbeih, Joanna Polanska
- 45. Competing out the enemy – efficient cryo-protection using deep eutectic solvents**
Elżbieta Wątor, Christian Feiler, Martin Gerlach, Manfred S. Weiss

46. **Analysis of the expression mechanism of ER-body component PYK10 in *Arabidopsis thaliana***
Alwine Wilkens, Jakub Bizan, Natalia Stefanik, Marta Libik-Konieczny, Kenji Yamada
47. **A ring-shaped DNA origami as a scaffold for attachment of protein**
Gerrit Wilkens, Yusuke Sakai, Jonathan Heddle
48. **ER bodies enable a mustard-oil-bomb defense in Brassicaceae plants**
Kenji Yamada, Shino Goto-Yamada, Mikio Nishimura, Ikuko Hara-Nishimura
49. **Perturbation of glucose metabolism in ART offspring**
Federica Zacchini, Roberta Arena, Anna Stachowiak, Grazyna Ewa Ptak
50. **Deletion of *fliC*, the gene coding for the motor protein flagellin, does not affect growth and mobility of *Salmonella Typhimurium* strain VNP20009 producing recombinant mouse PD-1.**
Edyta Żyła, Mateusz Wawro, Joanna Bereta