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| THE ROLES OF AUGMIN AND SPINDLE ACTIN IN CHROMOSOME CONGRESSION, SPINDLE ARCHITECTURE AND MITOTIC FIDELITY                  |            | Štimac, Valentina  |                        |
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| Samoorganizacija mikrotubula i motornih proteina u formiranju antiparalelnih svežnjeva diobenog vretena                      |  | Ban, Ivana   |  |
| Uspostava ljudskih staničnih linija s endogeno eksprimiranim proteinom tubulinom fluorescentno obilježenim metodom CRISPaint |  | Tintor, Erna   |  |
| Proliferative advantage of specific aneuploid cells drives evolution of tumor karyotypes                                     |  | Ban, Ivana; Tomašić, Lucija; Trakala, Marianna; Tolić, Iva M.; Pavin, Nenad                                      |  |
| Analiza dinamike proteina Rac1 tijekom staničnog kretanja  |  | Šoštar, Marko  |  |
| Kinetochores- and chromosome-driven transition of microtubules into bundles promotes spindle assembly                        |  | Matković, Jurica; Ghosh, Subhadip; Ćosić, Mateja; Eibes, Susana; Barišić, Marin; Pavin, Nenad; Tolić, Iva M.     |  |
| MECHANISM OF CHROMOSOME ALIGNMENT BY MICROTUBULE OVERLAPDEPENDENT FORCES AND ITS RELEVANCE FOR CHROMOSOME SEGREGATION ERRORS |  | Risteski, Patrik   |  |
| Length-dependent poleward flux of sister kinetochore fibers promotes chromosome alignment                                    |  | Risteski, Patrik; Božan, Domagoj; Jagrić, Mihaela; Bosilj, Agneza; Pavin, Nenad; Tolić, Iva M.                   |  |
| The chirality of the mitotic spindle provides a mechanical response to forces and depends on microtubule motors and augmin   |  | Trupinić, Monika; Kokanović, Barbara; Ponjavić, Ivana; Barišić, Ivan; Šegvić, Siniša; Ivec, Arian; Tolić, Iva M. |  |
| Oblique circle method for measuring the curvature and twist of mitotic spindle microtubule bundles                           |  | Ivec, Arian; Trupinić, Monika; Tolić, Iva M.; Pavin, Nenad   |  |
| The role of kinesin-8 and PRC1 proteins in kinetochorepositioning in the metaphase plate                                     |  | Jagrić, Mihaela  |  |
| Mitotic spindle: lessons from theoretical modeling   |  | Tolić, Iva M.; Pavin, Nenad  |  |
| Biomechanics of chromosome alignment at the spindle midplane   |  | Risteski, Patrik; Jagrić, Mihaela; Pavin, Nenad; Tolić, Iva M.   |  |
| Mechanobiology of the Mitotic Spindle  |  | Pavin, Nenad; Tolić, Iva Marija  |  |
| Sastavljanje i dinamika antiparalelnih snopova mikrotubula u prometafazi mitoze  |  | Matković, Jurica   |  |
| Uspostava kulture i biološko oslikavanje organoida mišjeg tankog crijeva   |  | Kodba, Snježana  |  |

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| Biofizička svojstva proteina regulatora citokineze 1, PRC1, u fazama mitoze ljudskih stanica           |  | Manenica, Martina   |  |
| The mechanisms of microtubule associated proteins in chromosome segregation                            |  | Vukušić, Kruno  |  |
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| Uloga vezivnih proteina i kutne difuzije u stvaranju svežnjeva mikrotubula                             |  | Prelogović, Marcel  |  |
| Helical Twist and Rotational Forces in the Mitotic Spindle   |  | Tolić, Iva M.; Novak, Maja; Pavin, Nenad  |  |
| Pivot-and-bond model explains microtubule bundle formation   |  | Prelogović, Marcel; Winters, Lora; Milas, Ana; Tolić, Iva; Pavin, Nenad   |  |
| Pivoting of microtubules driven by minus-end-directed motors leads to spindle assembly                 |  | Winters, Lora; Ban, Ivana; Prelogović, Marcel; Kalinina, Iana; Pavin, Nenad; Tolić, Iva M.                                      |  |
| Ekspanzijska mikroskopija u proučavanju arhitekture diobenog vretena                                   |  | Ponjavić, Ivana   |  |
| Uloga proteina NuMa u sastavljanju i arhitekturi mitotskog diobenog vretena                            |  | Jelenić, Stela  |  |
| Metaphase kinetochore movements are regulated by kinesin-8 motors and microtubule dynamic instability  |  | Klemm, Anna H.; Bosilj, Agneza; Glunčić, Matko; Pavin, Nenad; Tolić, Iva Marija   |  |
| The mitotic spindle is chiral due to torques within microtubule bundles                                |  | Novak, Maja; Polak, Bruno; Simunić, Juraj; Boban, Zvonimir; Kuzmić, Barbara; Thomae, Andreas W; Tolić, Iva Marija; Pavin, Nenad |  |
| Identifikacija motornih proteina u prenosnom vlaknu mitotskog diobenog vretena                         |  | Risteski, Patrik  |  |
| Dinamika kinetohora i kinezina-8 (Kif18A) u metafazi mitoze  |  | Bačić, Luka   |  |
| Optogenetička metoda za brzo i reverzibilno uklanjanje proteina iz diobenog vretena                    |  | Milas, Ana  |  |
| Microtubule Sliding within the Bridging Fiber Pushes Kinetochore Fibers Apart to Segregate Chromosomes |  | Vukušić, Kruno; Buđa, Renata; Bosilj, Agneza; Milas, Ana; Pavin, Nenad; Tolić, Iva Marija                                       |  |
| Dinamika nastanka diobenog vretena   |  | Kuzmić, Barbara   |  |

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| Bridging the gap between sister kinetochores  |  | Tolić, Iva Marija; Pavin, Nenad   |  |
| Laser microsurgery reveals conserved viscoelastic behavior of the kinetochore   |  | Cojoc, Gheorghe; Roscioli, Emanuele; Zhang, Lijuan; García-Ulloa, Alfonso; Shah, Jagesh V.; Berns, Michael W.; Pavin, Nenad; Cimini, Daniela; Tolić, Iva Marija; Gregan, Juraj  |  |
| Overlap microtubules link sister k-fibres and balance the forces on bi-oriented kinetochores                              |  | Kajtez, Janko; Solomatina, Anastasia; Novak, Maja; Polak, Bruno; Vukušić, Bruno; Rüdiger, Jonas; Cojoc, Gheorghe; Milas, Ana; Šumanovac Šestak, Ivana; Risteski, Patrik; Tavano, Federica; Klemm, Anna H.; Roscioli, Emanuele; Welburn, Julie; Cimini, Daniela; Glunčić, Matko; Pavin, Nenad; Tolić, Iva Marija |  |
| Paired arrangement of kinetochores together with microtubule pivoting and dynamics drive kinetochore capture in meiosis I |  | Cojoc, Gheorghe; Ana-Maria, Florescu; Krull, Alexander; Anna H., Klemm; Pavin, Nenad; Jülicher, Frank; Tolić, Iva Marija  |  |
| Analiza mehanike metafaznog diobenog vretena u stanicama HeLa primjenom laserske mikrodisekcije                           |  | Polak, Bruno  |  |
| Organizacija mikrotubula i ravnoteža sila u metafaznom vretenu HeLa i Ptk1 stanica  |  | Vukušić, Kruno  |  |
| Kinesin-8 Motors Improve Nuclear Centering by Promoting Microtubule Catastrophe   |  | Glunčić, Matko; Maghelli, Nicola; Krull, Alexander; Krstić, Vladimir; Ramunno-Johnson, Damien; Pavin, Nenad; Tolić, Iva M.  |  |
| Dynein, microtubule and cargo: a ménage à trois   |  | Pavin, Nenad; Tolić-Nørrelykke, Iva M.  |  |