

**Candidate supervisor's information summary form**  
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: dr hab. Mirela Tulik, prof. WULS	
Discipline/ disciplines of science	Forest sciences
Professional development (degrees and titles) in chronological order	PhD – 1999; Post-doctoral degree. - 2013
Most important publications/patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> <li>1. Jura-Morawiec J., Monroy P., Marrero A., Tulik M. 2021. Aerial root structure and its significance for function in <i>Dracaena draco</i>. Journal of Plant Growth Regulation 40(2): 486-493; DOI: 10.1007/s00344-020-10142-z.</li> <li>2. Nowakowska J.A., Stocki M., Stocka N., Slusarski S., Tkaczyk M., Caetano J.M., Tulik M., Hsiang T., Oszako T. 2020. Interactions between <i>Phytophthora cactorum</i>, <i>Armillaria gallica</i> and <i>Betula pendula</i> Roth. seedlings subjected to defoliation. Forests, 11, 1107; DOI:10.3390/f11101107</li> <li>3. Kozakiewicz P., Jankowska A., Mamiński M., Marciszewska K., Czurzycki W., Tulik M. 2020. The wood of Scots Pine (<i>Pinus sylvestris</i> L.) from post-agricultural lands has suitable properties for the timber industry. Forests, 11(10), 1033; DOI: 10.3390/f11101033</li> <li>4. Świecimska M., Tulik M., Šerá B., Golińska P., Tomeková J., Medvecká V Bujdáková H., Oszako T., Zahoranová A., Šerý M. 2020. Non-thermal plasma can be used in disinfection of Scots pine (<i>Pinus sylvestris</i> L.) seeds infected with <i>Fusarium oxysporum</i>. Forests, 11, 837; DOI: 10.3390/f11080837</li> <li>5. Tulik M., Grochowina A., Jura-Morawiec, Bijak Sz. 2020. Groundwater level fluctuations affect mortality of Black alder (<i>Alnus glutinosa</i> Gaertn.). Forests 11, 134; DOI:10.3390/f11020134</li> <li>6. Tulik M., Jura-Morawiec J., Bieniasz A., Marciszewska K. 2019. How long do wood parenchyma cells live in stem of Scot pine (<i>Pinus sylvestris</i> L.)? Studies on cell nuclei status along the radial and longitudinal stem axes. Forests 10, 977; DOI:10.3390/f10110977</li> <li>7. Myśkow E, Gola E., Tulik M. 2019. Continuity of procambium and anomalous cambium during formation of successive cambia in <i>Celosia argentea</i>. Journal of Plant Growth Regulation 38: 1458–1466; DOI: 10.1007/s00344-019-09948-3</li> <li>8. Tulik M., Karczewski J., Szeliga N., Jura-Morawiec J., Jarzyna J. 2018. Morphological characteristics and allometric relationships of shoot in two undergrowth plants: <i>Polygonatum odoratum</i> and <i>Polygonatum multiflorum</i>. Forests 2018: 9(12): 1-11; DOI: 10.3390/f9120783</li> </ol>

Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	doctoral programmes opened – 17.09.2019
Project/grants achievements (from the last 10 years)	<ol style="list-style-type: none"> <li>1. Project financed by: the State Treasury - General Directorate of State Forests based in Warsaw, 2013. Project number: EO-2717-13 / 13, topic: "Multifactorial analysis of the technical quality of silvery birch wood (<i>Betula pendula</i> Roth.) In Poland", Task - work on the preparation of birch wood.</li> <li>2. GRANT N N309 108 640, National Science Center in Krakow, 2012-2014, Principal investigator – dr. inz. K. Marciszewska Investigator - dr. M. Tulik Subject: Changes in the structure and properties of Scots pine (<i>Pinus sylvestris</i> L.) wood on post-agricultural land as a response to environmental stress</li> <li>3. GRANT N N309 077438 MNiSW, 2009-2012. Principal investigator - dr. Mirela Tulik Topic: Structural and functional modifications of secondary wood of trunks of dying ash trees (<i>Fraxinus excelsior</i> L.).</li> </ol>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<ol style="list-style-type: none"> <li>1. Environmental regulation of wood morphogenesis, including formation of heartwood in forest trees.</li> <li>2. Dieback of forest trees.</li> <li>3. Functional traits of woody plants.</li> <li>4. Developmental anatomy of vascular plants.</li> </ol>
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