

Literatura

- Andrzejewska-Górecka, D., Drożdż, M., Liebers, D., Meissner, Z., Nowak, K. (2020). Biotechnologiczny skok w przyszłość czy dryf? Polska potrzebuje strategii rozwoju biotechnologii. Warszawa: Polski Instytut Ekonomiczny.
- Angulo, E., Cooke, B. (2002). First synthesize new viruses then regulate their release? The case of the wild rabbit. *Mol. Ecol.*, 11, 2703-2709.
- Baltimore, D., Berg, P., Botchan, M., Carroll, D., Charo, R.A., Church, G., Corn, J.E., Daley, G.Q., Doudna, J.A., Fenner, M., Greely, H.T., Jinek, M., Martin, G.S., Penhoet, E., Puck, J., Sternberg, S.H., Weissman, J.S., Yamamoto, K.R. (2015). Biotechnology. A prudent path forward for genomic engineering and germline gene modification. *Science*, 348, 6230, 36-38.
- Beeckman, D.S.A., Rüdelsheim, P. (2020). Biosafety and biosecurity in containment: a regulatory overview. *Front. Bioeng. Biotechnol.*, 8, 650.
- Berg, P., Baltimore, D., Boyer, H.W., Cohen, S.N., Davis, R.W., Hogness, D.S., Nathans, D., Roblin, R., Watson, J.D., Weissman, S., Zinder, N.D. (1974). Letter: Potential biohazards of recombinant DNA molecules. *Science*, 185, 4148, 303.
- Capell, T., Twyman, R.M., Armario-Najera, V., Ma, J.K., Schillberg, S., Christou, P. (2020). Potential applications of plant biotechnology against SARS-CoV-2. *Trends Plant. Sci.*, 25(7), 635-643.
- Cong, L., Ran, F.A., Cox, D., Lin, S., Barretto, R., Habib, N., Hsu, P. D., Wu, X., Jiang, W., Marraffini, L.A., Zhang, F. (2013). Multiplex genome engineering using CRISPR/Cas systems. *Science*, 339, 6121, 819-823.
- Czynczyk, A. (2012). *Szkółkarstwo sadownicze*. Warszawa: PWRIL.
- Dettenhofer, M., Ondrejovič, M., Vášáry, V., Kaszycki, P., Twardowski, T., Stuchlík, S., Turňa, J., Dundar, M., Gartland, K.M.A., Miertuš, S. (2019). Current state and prospects of biotechnology in Central and Eastern European countries. Part I: Visegrad countries (CZ, H, PL, SK). *Crit. Rev. Biotechnol.*, 39(1), 114-136.
- Gasiunas, G., Barrangou, R., Horvath, P., Siksnys, V. (2012). Cas9-crRNA ribonucleoprotein complex mediates specific DNA cleavage for adaptive immunity in bacteria. *Proc. Natl. Acad. Sci. U. S. A.*, 109, 39, E2579-2586.
- Harms, D.W., Quadros, R.M., Seruggia, D., Ohtsuka, M., Takahashi, G., Montoliu, L., Gurumurthy, C.B. (2014). Mouse genome editing using the CRISPR/Cas System. *Curr. Protoc. Hum. Genet.*, 83, 15.7, 1-27.

- Hogan, S. (1999). Yellow rice to prevent vitamin A deficiency, by International Bioforum. GIT Verlag, https://ec.europa.eu/commission/presscorner/detail/en/IP_99_619
- Holme, I.B., Wendt, T., Holm, P.B. (2013). Intrageneration and cisgenesis as alternatives to transgenic crop development. *Plant Biotechnol. J.*, 11(4), 395-407.
- Hryniewicz-Sudnik, J., Sękowski, B., Wilczkiewicz, M. (2001). *Rozmnażanie drzew i krzewów liściastych*. Warszawa: Wydawnictwo Naukowe PWN.
- Ichim, M.C. (2021). The more favorable attitude of the citizens toward GMOs supports a new regulatory framework in the European Union. *GM Crops Food*, 12, 1, 18-24.
- James, C. (2015). 20th anniversary (1996 to 2015) of the global commercialization of Biotech Crops and Biotech Crop Highlights in 2015. ISAAA Brief No. 51. ISAAA: Ithaca, NY, <https://www.isaaa.org/resources/publications/briefs/51/default.asp>
- Jinek, M., Chyliński, K., Fonfara, I., Hauer, M., Doudna, J.A., Charpentier, E. (2012). A programmable dual-RNA-guided DNA endonuclease in adaptive bacterial immunity. *Science*, 337, 6096, 816-821.
- Krzysztofik, B. (2018). Ocena wiedzy konsumentów na temat żywności genetycznie modyfikowanej i jej znakowania. Assessment of consumer knowledge on genetically modified foods and the labeling of the same. *Probl. Hig. Epidemiol.*, 99, 4, 358-363.
- Lander, E.S., Baylis, F., Zhang, F., Charpentier, E., Berg, P., Bourgain, C., Friedrich, B., Jung, J.K., Li, J., Liu, D., Naldini, L., Nie, J.B., Qiu, R., Schoene-Seifert, B., Shao, F., Terry, S., Wei, W., Winnacker, E.L. (2019). Adopt a moratorium on heritable genome editing. *Nature*, 567, 7747, 165-168.
- Maddalo, D., Machado, E., Concepcion, C.P., Bonetti, C., Vidigal, J.A., Han, Y.C., Ogrodowski, P., Crippa, A., Rekhman, N., de Stanchina, E., Lowe, S. W., Ventura, A. (2014). In vivo engineering of oncogenic chromosomal rearrangements with the CRISPR/Cas9 system. *Nature*, 516, 7531, 423-427.
- Oliva, N., Florida Cueto-Reaño, M., Trijatmiko, K. R., Samia, M., Welsch, R., Schaub, P., Beyer, P., Mackenzie, D., Boncodin, R., Reinke, R., Slamet-Loedin, I., Mallikarjuna Swamy, B.P. (2020). Molecular characterization and safety assessment of biofortified provitamin A rice. *Sci. Rep.*, 10, 1, 1376.
- Pellegrino, E., Bedini, S., Nuti, M., Ercoli, L. (2018). Impact of genetically engineered maize on agronomic, environmental and toxicological traits: a meta-analysis of 21 years of field data. *Sci. Rep.*, 8, 1, 3113. Author Correction: *Sci. Rep.* 8, 1, 6485.
- Reiss, M.J., Straughan R. (1997). *Inżynieria genetyczna – nauka i etyka*. Warszawa: Wydawnictwo Amber.
- Rzyski, P., Królczyk, A. (2016). Attitudes toward genetically modified organisms in Poland: to GMO or not to GMO? *Food Sec.*, 8, 689-697.
- Sahoo, A., Mandal A.K., Dwivedi, K., Kumar, V. (2020). A cross talk between the immunization and edible vaccine: Current challenges and future prospects. *Life Sci.*, 261, 118343.

- Sampogna, G., Guraya, S.Y., Forgione, A. (2015). Regenerative medicine: Historical roots and potential strategies in modern medicine. *J. Microsc. Ultrastruct.*, 3, 3, 101-107.
- Singh, A., Joshi, M., Devi, E.L. (2015). Alternative to transgenesis: cisgenesis and intragenesis. In: J. Al-Khayri, S. Jain, D. Johnson (eds.), *Advances in plant breeding strategies: breeding, biotechnology and molecular tools* (345-367). Cham: Springer.
- Sowa, S., Twardowski, T., Woźniak, E., Zimny, T. (2020). Legal and practical challenges to authorization of gene edited plants in the EU. *N. Biotechnol.*, 60, 183-188.
- Wajcen, U. (2000). Zobowiązania prawne w zakresie biotechnologii wynikające z członkostwa w organizacjach i umowach międzynarodowych. *Biotechnologia*, 1, 48, 95-97.
- Watson, J.D. (2015). *DNA – Tajemnica życia*. Warszawa: Wydawnictwo CIS i WAB.
- Wilmut, I., Schnieke, A.E., McWhir, J., Kind, A.J., Campbell, K.H. (1997). Viable offspring derived from fetal and adult mammalian cells. *Nature*, 385, 6619, 810-813. Correction: *Nature*, 386, 6621, 200.
- Woźniak, E., Tyczewska, A., Twardowski, T. (2020). A shift towards biotechnology: social opinion in the EU. *Trends Biotechnol.*, S0167-7799(20), 30209-2.
- Zimny, T., Sowa, S., Tyczewska, A., Twardowski, T. (2019). Certain new plant breeding techniques and their marketability in the context of EU GMO legislation – recent developments. *N. Biotechnol.*, 51, 49-56.