

ZAPROGRAMMIROVANNAYa GIBEL KLETOK U RASTENIY: ZAPROGRAMMIROVANNAYa GIBEL KLETOK I ENDONUKLEAZNYE AKTIVNOSTI U RASTENIY PShENITsY I GOROKhA (Russian Edition)



Zaprogrammirovannaya gibel kletok (ZGK) u rasteniy, kak i u zhivotnykh, yavlyetsya obyazatelnykh protsessom na raznykh etapakh ontogeneza. U zhivotnykh vydelyayut tri tipa gibeli kletok, otlichayushchiesya morfologicheski: apoptoz, autofagiya i nekroz. Dlya opisaniya protsessov kletochnoy smerti u rasteniy v bolshinstve sluchaev upotreblyetsya termin ZGK. V nastoyashchee vremya stanovitsya ochevidnym, chto sushchestvuyut opredelennye otlichiya v kletochnoy gibeli u zhivotnykh i rasteniy. U rasteniy imeetsya neskolko tipov ZGK, kazhdy iz kotorykh, veroyatno, imeet svoi regulatorynye mekhanizmy i morfologicheskie osobennosti. Starenie lista yavlyetsya odnim iz tipov ZGK i imeet otlichiya ot drugikh vidov ZGK. Na protsess zaprogrammirovannoy kletochnoy gibeli vliyaet mnozhestvo faktorov kak vneshnikh, tak i vnutrennikh. Odnim iz markerov protsessa ZGK yavlyetsya degradatsiya DNK nukleazami. Dannaya rabota posvyashchena izucheniyu vliyaniya fitogormonov, nekotorykh regulyatorov rosta i sveta na degradatsiyu DNK v khode stareniya, a takzhe detalnomu analizu gruppy nukleaznykh aktivnostey, uchastvuyushchikh v realizatsii programmy ZGK v pervom liste i koleoptile pshenitsy, a takzhe u rasteniy gorokha normalnogo i afilnogo tipa.

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