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(71) Applicant *(for all designated States except US)*: **USTAV EXPERIMENTALNI BOTANIKY AKADEMIE VED CESKE REPUBLIKY** [CZ/CZ]; Rosvojova 35, 165 02 Praha 6 - Lysolaje (CZ).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DOLEZAL, Karel** [CZ/CZ]; Vidce 401, 756 53 Vidce (CZ). **POPA, Igor** [CZ/CZ]; Dr. V. Nespora 11, 772 00 Olomouc (CZ). **HOLUB, Jan** [CZ/CZ]; Foerstrova 45, 779 00 Olomouc (CZ). **LENOBEL, René** [CZ/CZ]; Hlavní nám. 12, 785 01 Stemberk (CZ). **WERBROUCK, Stefaan** [BE/BE]; Beeklaan 34, B-8530 Harelbeke (BE). **STRNAD, Miroslav** [CZ/CZ]; Západní 25, 779 00 Olomouc (CZ). **ZATLOUKAL, Marek** [CZ/CZ]; Revolucní 18a, 787 01 Sumperk (CZ).

(74) Agent: **GABRIELOVA, Marta**; Inventia s.r.o., Trída Politickych veynu 7, 110 00 Praha 1 (CZ).

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(54) Title: HETEROCYCLIC COMPOUND BASED ON N^6-SUBSTITUTED ADENINE, METHODS OF THEIR PREPARATION, THEIR USE FOR PREPARATION OF DRUGS, COSMETIC PREPARATIONS AND GROWTH REGULATORS, PHARMACEUTICAL PREPARATIONS, COSMETIC PREPARATIONS AND GROWTH REGULATORS CONTAINING THESE COMPOUNDS

(57) Abstract: New heterocyclic derivatives based on N^6-substituted adenine, having anticancer, mitotic, imunosuppressive and antisenescent propoerties for plant, animal and human cells and methods of their preparation. Included are also pharmaceutical compositions, cosmetic preparations and growth regulators, which contain these derivatives as active compound and the use of these derivatives for the preparation of drugs, cosmetic preparations, in biotechnological processes, in cosmetics and in agriculture.