



US 20060166925A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2006/0166925 A1**
Dolezal et al. (43) **Pub. Date: Jul. 27, 2006**(54) **SUBSTITUTION DERIVATIVES OF
N⁶-BENZYLADENOSINE, 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**(76) Inventors: **Karel Dolezal**, Vidce (CZ); **Igor Popa**,
Olomouc (CZ); **Marek Zatloukal**,
Sumperk (CZ); **Rene Lenobel**,
Stemberk (CZ); **Dana Hradecka**, Praha
(CZ); **Borivoj Vojtesek**, Modrice (CZ);
Stjepan Uldrijan, Brno (CZ); **Petr**
Mlejnek, Brno (CZ); **Stefaan**
Werbrouck, Harelbeke (BE); **Miroslav**
Strnad, Olomouc (CZ)

Correspondence Address:

NOTARO AND MICHALOS**100 DUTCH HILL ROAD****SUITE 110****ORANGEBURG, NY 10962-2100 (US)**(21) Appl. No.: **10/540,993**(22) PCT Filed: **Dec. 29, 2003**(86) PCT No.: **PCT/CZ03/00078**(30) **Foreign Application Priority Data**

Dec. 30, 2002 (CZ)..... 10540993

Publication Classification(51) **Int. Cl.****C07H 19/16** (2006.01)**A61K 31/7076** (2006.01)(52) **U.S. Cl.** **514/46; 536/27.3**(57) **ABSTRACT**

The invention concerns novel substitution derivatives of N⁶-benzyladenosine having anticancer, mitotic, immuno-suppressive and antisenescence properties for plant, animal and human cells. This invention also relates to the methods of preparation of these N⁶-benzyladenosine derivatives and their use as drugs, cosmetic preparations and growth regulators comprising these derivatives as active compound and use of these derivatives for preparation of pharmaceutical compositions, in biotechnological processes, in cosmetics and in agriculture.

