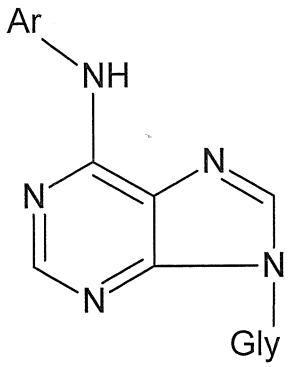
CLAIMS

1. Use of 6-aryl-9-glycosidpurine of general formula **I**



I

and pharmaceutically acceptable salts thereof with alkali metals, ammonia, amines, or addition salts with acids, wherein

Gly represents β-D-arabinofuranosyl or β-D-2′-deoxyribofuranosyl,

Ar represents benzyl or furfuryl, each of which can be unsubstituted or substituted by one or more, preferably one to three, substituents selected from the group comprising hydroxyl, alkyl, halogen, alkoxy, amino, mercapto, carboxyl, cyano, amido, sulfo, sulfamido, acyl, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, trifluoromethyl, trifluoromethoxy,

for regulation, in particular inhibition, of aging in animals, in particular mammals, for cosmetic purposes, and/or for UV photoprotection of animals, in particular mammals, for cosmetic purposes.

2. Use of 6-aryl-9-glycosylpurines of general formula I as defined in claim 1 in the manufacture of a medicament for regulation, in particular inhibition, of aging in animals, in particular mammals, for therapeutic purposes, and/or for UV photoprotection of animals, in particular mammals, for therapeutic purposes.

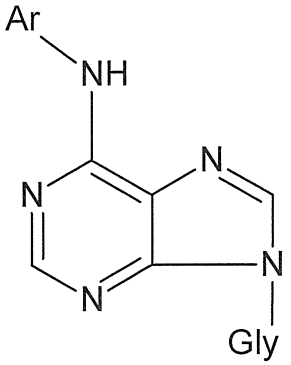
3. A method for regulating aging and/or UV photodamage wherein at least one compound of general formula **I** according to claim 1 is applied to cells or microorganisms.

4. Use of 6-aryl-9-glycosidpurine according to claim 1 or 2, or the method according to claim 3, wherein the compound of general formula **I** is selected from the group consisting of: 6-furfurylamino-9-β-D-arabinofuranosylpurine, 6-(3-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-

methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-hydroxy-4-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-hydroxy-5-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-hydroxy-6-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxy-2-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxy-4-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxy-5-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxy-6-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-2-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-3-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-5-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-6-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine.

5. Use of compositions containing at least one 6-aryl-9-glycosidpurine of general formula I in the manufacture of a medicament for inhibiting aging and/or for UV photoprotection of mammals, or for inhibiting aging and/or for UV photoprotection of mammalian cells, such as keratinocytes and fibroblasts.

6. 6-aryl-9-glycosidpurine of general formula **Ia**



Ia

and pharmaceutically acceptable salts thereof with alkali metals, ammonia, amines, or addition salts with acids, wherein

Gly represents β-D-arabinofuranosyl or β-D-2′-deoxyribofuranosyl,