CLAIMS

1. A *Talaromyces pinophilus* strain with the deposition no. PTA-125750 ~~or an active mutant derived therefrom~~ for producing a cellulolytic enzyme complex.

2. An active mutant of ~~T~~the *Talaromyces pinophilus* strain of claim 1, wherein the active mutant comprises at least one mutation in one or more genes, wherein the active mutant has cellulolytic activity.

3. The ~~*Talaromyces pinophilus* strain~~active mutant of claim 2, wherein the one or more genes are selected from the group consisting of MFS monosaccharide transporter gene, monocarboxylate permease gene, MFS transporter Liz1/Seo1 gene, general substrate transporter gene, zinc transporter gene, C2H2 transcription factor gene, MAP kinase kinase kinase gene, CaaX farnesyltransferase alpha subunit Ram2 gene, biotin:apoprotein ligase gene, Dihydrodipicolinate synthetase protein gene, response regulator-like (hhk1) gene, annexin ANXC3.2 gene, actin binding protein gene, tannase and feruloyl esterase gene, acid phosphatase gene, copper-exporting ATPase gene, ubiquitin biosysthesis protein gene, Proteasome activator subunit 4 gene and THO complex subunit Tho1 gene, wherein the active mutant has cellulolytic activity.

4. The ~~*Talaromyces pinophilus* strain~~active mutant of claim ~~1~~2, wherein the active mutant comprises at least one mutation in a gene including a polynucleotide sequence set forth in SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 or 19, wherein the active mutant has cellulolytic activity.

5. The ~~*Talaromyces pinophilus* strain~~active mutant of claim ~~1~~2, wherein the active mutant comprises a gene including a polynucleotide sequence having at least 80% identity with a polynucleotide sequence set forth in SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 or 19, wherein the active mutant has cellulolytic activity.

6. The ~~*Talaromyces pinophilus* strain~~active mutant of claim ~~4 or~~ 5, wherein the polynucleotide sequence set forth in SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 or 19 comprises at least one mutation, wherein the active mutant~~strain~~ has cellulolytic activity.

7. The active mutant~~*Talaromyces pinophilus* strain~~ of claim 6, wherein the at least one mutation comprises a single nucleotide polymorphism and/or a point mutation.

8. The active mutant~~*Talaromyces pinophilus* strain~~ of claim ~~1~~2, wherein the active mutant comprises at least one mutation in~~contains~~ a gene encoding a polypeptide having an amino acid sequence set forth in SEQ ID NO: 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 or 38.

9. The active mutant ~~*Talaromyces pinophilus* strain~~ of claim ~~1~~2, wherein the active mutant contains a gene encoding a polypeptide includes of an amino acid sequence having at least 85% identity with an amino acid sequence set forth in SEQ ID NO: 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 or 38.

10. The active mutant ~~*Talaromyces pinophilus* strain~~ of claim ~~8 or~~ 9, wherein the amino acid sequence set forth in SEQ ID NO: 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 or 38 comprises at least one mutation, wherein the strain has cellulolytic activity.

11. The active mutant ~~*Talaromyces pinophilus* strain~~ of claim 10, wherein the at least one mutation comprises an amino acid substitution, insertion and/or deletion.

12. An isolated culture of the *Talaromyces pinophilus* strain of ~~anyone of~~ claims 1~~-11~~ or active mutant of claim 2 having cellulolytic activity and capable of producing a cellulolytic enzyme complex.

~~13. A supernatant obtained from the culture as defined in claim 12, comprising a cellulolytic enzyme complex capable of degrading lignocellulosic materials.~~

~~14. The supernatant of claim 13, wherein the cellulolytic enzyme complex comprises cellulase, endoglucanase, exoglucanase, β-glucosidase, xylanase and β-xylosidase.~~

~~15. The supernatant of claim 14, wherein the β-glucosidase and the cellulase are present in a ratio of 5:1, 4:1, 3:1, 2:1 or 1:1.~~

~~16. The supernatant of claim 14, wherein the xylanases and the cellulase are present in a ratio of 10:1, 5:1, 3:1, 1:1, 0.5:1 or 0.1:1.~~

~~17~~13. A method of obtaining a supernatant from the strain of *Talaromyces pinophilus* ~~according to anyone~~ of claim~~s~~ 1~~-11~~ or the active mutant of claim 2, comprising steps of:

contacting the strain of *Talaromyces pinophilus* or active mutant with a medium to produce a suspension;

incubating the suspension;

fermenting the suspension; and

centrifuging the suspension to obtain the supernatant.

~~18~~14. The method according to claim ~~17~~13, wherein the medium comprises inorganic salts and nutrients suitable for growth of the strain of *Talaromyces pinophilus* or active mutant.

~~19~~15. The method according to claim ~~18~~14, wherein the inorganic salts is selected from the group consisting of potassium dihydrogen phosphate, magnesium sulphate, calcium chloride, iron(II) sulphate, manganese sulphate and zinc sulphate.

~~20~~16. The method according to claim ~~18~~14, wherein the medium further comprises inorganic ammonium salts and organic ammonium salts.

~~21~~17. The method according to claim ~~17~~13, wherein the medium comprises a substrate selected from the group consisting of cellulosic material, grass material,

herbaceous material, agricultural residue, forestry residue, waste paper, and pulp and paper mill residue.

~~22~~18. A method for degrading lignocellulosic material to fermentable sugar, comprising steps of:

pre-treating the lignocellulosic material;

washing the pre-treated lignocellulosic material with distilled water;

drying the pre-treated lignocellulosic material; and

contacting the pre-treated lignocellulosic material with a supernatant obtained from the method ~~according to anyone~~ of caim~~s~~ 13~~-16~~.

~~23~~19. The method according to claim ~~22~~18, further comprising a step of recovering the degraded lignocellulosic material.

~~24~~20. The method according to claim ~~22~~18, wherein the lignocellulosic material is selected from the group consisting of grass material, herbaceous material, agricultural residue, forestry residue, waste paper, and pulp and paper mill residue.