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| **Table 1: List of accession used in analysis** |
| **Accession** |  |  | **Paired/Single Sequencing** | **Replicate** | **Tissue** | **Description** | **total reads** | **mapped reads** | **Ref** |
| *Run1* | *Run2* | *Run3* |  |  |  |  |  |  |  |
| SRR5177530 |   |   | paired | rep1 | Hypha | Vegetative hypha | 32325580 | 31741851 |  (1) |
| SRR5177529 |   |   | paired | rep2 | Hypha | Vegetative hypha | 38796027 | 38146518 |  (1) |
| SRR5177528 |   |   | paired | rep1 | Perithecia | 3-dpf Perithecia | 27664762 | 26741407 |  (1) |
| SRR5177527 |   |   | paired | rep2 | Perithecia | 3-dpf Perithecia | 32857537 | 31242712 |  (1) |
| SRR5177526 |   |   | paired | rep1 | Perithecia | 4-dpf Perithecia | 35768086 | 31463412 |  (1) |
| SRR5177525 |   |   | paired | rep2 | Perithecia | 4-dpf Perithecia | 37853182 | 35392322 |  (1) |
| SRR5177524 |   |   | paired | rep1 | Perithecia | 5-dpf Perithecia | 35942321 | 33844670 |  (1) |
| SRR5177522 |   |   | paired | rep1 | Perithecia | 6-dpf Perithecia | 37050858 | 35631548 |  (1) |
| SRR5177521 |   |   | paired | rep2 | Perithecia | 6-dpf Perithecia | 33168301 | 31397580 |  (1) |
| SRR400660 |   |   | single | rep3 | mycelium | Sucrose 4h | 67488726 | 65138966 |  (2) |
| SRR400659 |   |   | single | rep2 | mycelium | Sucrose 4h | 91200470 | 86830127 |  (2) |
| SRR400658 |   |   | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150647 |  (2) |
| SRR400657 |   |   | single | rep3 | mycelium | Sucrose 1h | 79141911 | 71683811 |  (2) |
| SRR400656 |   |   | single | rep2 | mycelium | Sucrose 1h | 85948194 | 79236659 |  (2) |
| SRR400655 |   |   | single | rep1 | mycelium | Sucrose 1h | 20033088 | 19207525 |  (2) |
| SRR400654 |   |   | single | rep3 | mycelium | No carbon 4h | 185052310 | 177218220 |  (2) |
| SRR400653 |   |   | single | rep2 | mycelium | No carbon 4h | 186502846 | 177721133 |  (2) |
| SRR400652 |   |   | single | rep1 | mycelium | No carbon 4h | 65277122 | 60153039 |  (2) |
| SRR400651 |   |   | single | rep3 | mycelium | No carbon 1h | 70273990 | 63679879 |  (2) |
| SRR400650 |   |   | single | rep3 | mycelium | Avicel 4h | 61959507 | 59094103 |  (2) |
| SRR400649 |   |   | single | rep2 | mycelium | Avicel 4h | 67436200 | 63365999 |  (2) |
| SRR400648 |   |   | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 |  (2) |
| SRR400647 |   |   | single | rep1 | mycelium | Avicel 30min | 23467362 | 22616184 |  (2) |
| SRR400646 |   |   | single | rep1 | mycelium | Avicel 2h | 25069798 | 24275536 |  (2) |
| SRR400645 |   |   | single | rep3 | mycelium | Avicel 1h | 88526620 | 81761225 |  (2) |
| SRR400644 |   |   | single | rep2 | mycelium | Avicel 1h | 84325373 | 78346622 |  (2) |
| SRR400643 |   |   | single | rep1 | mycelium | Avicel 1h | 20228437 | 19259645 |  (2) |
| SRR2007029 |   |   | single | rep3 | mycelium | 16h VMM 4h Xylan | 22608464 | 21342162 |  (3) |
| SRR2007028 |   |   | single | rep2 | mycelium | 16h VMM 4h Xylan | 18819307 | 17662424 |  (3) |
| SRR2007027 |   |   | single | rep1 | mycelium | 16h VMM 4h Xylan | 12374053 | 11561412 |  (3) |
| SRR447485 |   |   | single | rep3 | mycelium | Sucrose 4h | 67488723 | 65138965 |  (4) |
| SRR447484 |   |   | single | rep2 | mycelium | Sucrose 4h | 91200355 | 86830013 |  (4) |
| SRR447483 |   |   | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150646 |  (4) |
| SRR447482 |   |   | single | rep3 | mycelium | No Carbon 4h | 185052218 | 177218129 |  (4) |
| SRR447481 |   |   | single | rep2 | mycelium | No Carbon 4h | 186502844 | 177721131 |  (4) |
| SRR447480 |   |   | single | rep1 | mycelium | No Carbon 4h | 65277117 | 60153036 |  (4) |
| SRR447479 |   |   | single | rep3 | mycelium | Avicel 4h | 61959510 | 59094107 |  (4) |
| SRR447478 |   |   | single | rep2 | mycelium | Avicel 4h | 67436197 | 63365998 |  (4) |
| SRR447477 |   |   | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 |  (4) |
| SRR447473 |   |   | single | rep1 | mycelium | Cellobiose 4h | 70608426 | 67455130 |  (4) |
| SRR585669 |   |   | single | rep1 | Perithecia | Perithecia 0hr | 24981907 | 23189227 |  (5) |
| SRR585670 |   |   | single | rep1 | Perithecia | Perithecia 2hr | 32130912 | 30286211 |  (5) |
| SRR585671 |   |   | single | rep1 | Perithecia | Perithecia 24hr | 32221403 | 31007945 |  (5) |
| SRR585672 |   |   | single | rep1 | Perithecia | Perithecia 48hr | 28317548 | 24735658 |  (5) |
| SRR585673 |   |   | single | rep1 | Perithecia | Perithecia 72hr | 31035523 | 28866840 |  (5) |
| SRR585674 |   |   | single | rep1 | Perithecia | Perithecia 96hr | 23368271 | 22844060 |  (5) |
| SRR585675 |   |   | single | rep1 | Perithecia | Perithecia 120hr | 33366395 | 31245060 |  (5) |
| SRR585676 |   |   | single | rep1 | Perithecia | Perithecia 144hr | 28306227 | 27752150 |  (5) |
| SRR585661 |   |   | single | rep1 | Perithecia | Perithecia 0hr | 25772659 | 15288602 |  (5) |
| SRR585662 |   |   | single | rep1 | Perithecia | Perithecia 2hr | 29504208 | 18864166 |  (5) |
| SRR585663 |   |   | single | rep1 | Perithecia | Perithecia 24hr | 25566769 | 15351629 |  (5) |
| SRR585664 |   |   | single | rep1 | Perithecia | Perithecia 48hr | 24823248 | 14953684 |  (5) |
| SRR585665 |   |   | single | rep1 | Perithecia | Perithecia 72hr | 26994389 | 17762032 |  (5) |
| SRR585666 |   |   | single | rep1 | Perithecia | Perithecia 96hr | 25083301 | 16523959 |  (5) |
| SRR585667 |   |   | single | rep1 | Perithecia | Perithecia 120hr | 28724370 | 17350970 |  (5) |
| SRR585668 |   |   | single | rep1 | Perithecia | Perithecia 144hr | 25062103 | 14640015 |  (5) |
| SRR1562554 |   |   | single | rep1 | Mycelium | Sucrose 16 h | 25360474 | 24814760 |  (6) |
| SRR1562553 |   |   | single | rep1 | Mycelium | WheatStraw 30 h | 24791246 | 24310708 |  (6) |
| SRR1562552 |   |   | single | rep1 | Mycelium | SoybeanStraw 30 h | 24794780 | 24289408 |  (6) |
| SRR1562551 |   |   | single | rep1 | Mycelium | RiceStraw 30 h | 25264219 | 24784739 |  (6) |
| SRR1562550 |   |   | single | rep1 | Mycelium | CornStraw 30 h | 23828112 | 23317926 |  (6) |
| SRR1562549 |   |   | single | rep1 | Mycelium | BarleyStraw 30 h | 23667296 | 23204861 |  (6) |
| SRR676517 |   |   | single | rep1 | Mycelium | No Carbon | 65277117 | 60153035 |  (7) |
| SRR676518 |   |   | single | rep2 | Mycelium | No Carbon | 186502844 | 177721130 |  (7) |
| SRR676519 |   |   | single | rep3 | Mycelium | No Carbon | 185052357 | 177218259 |  (7) |
| SRR676514 |   |   | single | rep1 | Mycelium | Avicel | 14246506 | 13675648 |  (7) |
| SRR676515 |   |   | single | rep2 | Mycelium | Avicel | 67436207 | 63366006 |  (7) |
| SRR676516 |   |   | single | rep3 | Mycelium | Avicel | 61959507 | 59094103 |  (7) |
| SRR1055994 |   |   | single | rep2 | Mycelium | 240 min light exposure | 16960890 | 10220915 |  (8) |
| SRR1055993 |   |   | single | rep2 | Mycelium | 120 min light exposure | 15835594 | 12274447 |  (8) |
| SRR1055992 |   |   | single | rep2 | Mycelium | 60 min light exposure | 15914674 | 12576574 |  (8) |
| SRR1055991 |   |   | single | rep2 | Mycelium | 15 min light exposure | 14691061 | 11862170 |  (8) |
| SRR1055990 |   |   | single | rep2 | Mycelium | Dark only | 16821169 | 13390393 |  (8) |
| SRR1055989 |   |   | single | rep1 | Mycelium | 240 min light exposure | 48622071 | 40260120 |  (8) |
| SRR1055988 |   |   | single | rep1 | Mycelium | 120 min light exposure | 43562430 | 38205249 |  (8) |
| SRR1055987 |   |   | single | rep1 | Mycelium | 60 min light exposure | 47560747 | 40972059 |  (8) |
| SRR1055986 |   |   | single | rep1 | Mycelium | 15 min light exposure | 41288186 | 35658304 |  (8) |
| SRR1055985 |   |   | single | rep1 | Mycelium | Dark only | 43738233 | 37668579 |  (8) |
| SRR627948 |   |   | single | rep3 | mycelium | Sucrose 4h | 67488722 | 65138963 |  (9) |
| SRR627947 |   |   | single | rep2 | mycelium | Sucrose 4h | 91200477 | 86830134 |  (9) |
| SRR627946 |   |   | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150647 |  (9) |
| SRR627945 |   |   | single | rep3 | mycelium | No Carbon 4h | 185049503 | 177215406 |  (9) |
| SRR627944 |   |   | single | rep2 | mycelium | No Carbon 4h | 186502847 | 177721139 |  (9) |
| SRR627943 |   |   | single | rep1 | mycelium | No Carbon 4h | 65277119 | 60153037 |  (9) |
| SRR627942 |   |   | single | rep3 | mycelium | Avicel 4h | 61959510 | 59094107 |  (9) |
| SRR627941 |   |   | single | rep2 | mycelium | Avicel 4h | 67436198 | 63365999 |  (9) |
| SRR627940 |   |   | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 |  (9) |
| SRR627939 |   |   | single | rep1 | mycelium | Xylan 4h | 12374054 | 11561077 |  (9) |
| SRR627938 |   |   | single | rep2 | mycelium | Orange Peel Powder 4h | 150008421 | 141772267 |  (9) |
| SRR627937 |   |   | single | rep1 | mycelium | Orange Peel Powder 4h | 153619422 | 144815067 |  (9) |
| SRR627936 |   |   | single | rep3 | mycelium | Pectin 4h | 143287245 | 138072441 |  (9) |
| SRR627935 |   |   | single | rep2 | mycelium | Pectin 4h | 125365883 | 118403906 |  (9) |
| SRR627934 |   |   | single | rep1 | mycelium | Pectin 4h | 138390353 | 132239214 |  (9) |
| SRR8315453 |   |   | single | rep1 | Mycelium | No Iron | 12654417 | 12263988 |  (10) |
| SRR8315454 |   |   | single | rep2 | Mycelium | No Iron | 12908947 | 12472334 |  (10) |
| SRR8315449 |   |   | single | rep1 | Mycelium | Std cond | 14630354 | 14075998 |  (10) |
| SRR8315450 |   |   | single | rep2 | Mycelium | Std cond | 14005650 | 13542577 |  (10) |
| SRR8065400 | SRR8065401 |   | paired | rep2 | Mycelium | constant light 24 h- dark for 24 h - 30 min of constant light | 62076792 | 31429902 |  (11) |
| SRR8065399 | SRR8065398 |   | paired | rep1 | Mycelium | constant light 24 h- dark for 24 h - 30 min of constant light | 66436386 | 42416775 |  (11) |
| SRR8065397 | SRR8065396 |   | paired | rep2 | Mycelium | constant light 24 h- dark for 24 h | 80518911 | 22825098 |  (11) |
| SRR8065395 | SRR8065394 |   | paired | rep1 | Mycelium | constant light 24 h- dark for 24 h | 72457057 | 18053826 |  (11) |
| SRR2952644 |   |   | single | rep1 | conidia | VMM + Chitosan 16h | 181254563 | 175514293 |  (12) |
| SRR2952643 |   |   | single | rep1 | conidia | VMM + Chitosan 8h | 196561030 | 192029011 |  (12) |
| SRR2952642 |   |   | single | rep1 | conidia | VMM with chitosan 4 h | 202093822 | 197806834 |  (12) |
| SRR2952640 |   |   | single | rep1 | conidia | VMM 16h | 201909013 | 197218022 |  (12) |
| SRR2952639 |   |   | single | rep1 | conidia | VMM 8h | 206497934 | 203216664 |  (12) |
| SRR2952641 |   |   | single | rep1 | conidia | VMM 4h | 202704918 | 198969066 |  (12) |
| SRR1594012 |   |   | paired | rep1 | Hypha | VMM + Avicel 36 h + DTT (5mM) for 1 h | 15427238 | 15191294 |  (13) |
| SRR1594011 |   |   | paired | rep1 | Hypha | VMM + Avicel 36 h + H2O for 1 h | 16255311 | 16007632 |  (13) |
| SRR1594004 |   |   | single | rep1 | Hypha | VMM 16 h + Avicel 4 h + DTT(5mM) for 1 h | 22443031 | 22025488 |  (13) |
| SRR1594003 |   |   | single | rep1 | Hypha | VMM 16 h + Avicel 4 h + H2O for 1 h | 22458730 | 22095661 |  (13) |
| SRR1594002 |   |   | single | rep1 | Hypha | VMM + Avicel 36 h + tunicamycin (40ug/mL) for 1 h | 23346852 | 22971695 |  (13) |
| SRR1594001 |   |   | single | rep1 | Hypha | VMM + Avicel 36 h + tunicamycin (5ug/mL) for 1 h | 24744756 | 24376774 |  (13) |
| SRR1594000 |   |   | single | rep1 | Hypha | VMM + Avicel 36 h +DTT (5mM) for 1 h | 24863644 | 24493112 |  (13) |
| SRR1593999 |   |   | single | rep1 | Hypha | VMM + Avicel 36 h + DTT (0.1mM) for 1 h | 23434570 | 23062813 |  (13) |
| SRR1593998 |   |   | single | rep1 | Hypha | VMM + Avicel 36 h + H2O for 1 h | 25788342 | 25426319 |  (13) |
| SRR7082735 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 22 h | 16648414 | 16417655 |  (14) |
| SRR7082734 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 20 h | 15864578 | 15597009 |  (14) |
| SRR7082733 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 18 h | 7909276 | 7852815 |  (14) |
| SRR7082732 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 16 h | 11255900 | 11052456 |  (14) |
| SRR7082731 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 14 h | 11809137 | 11629355 |  (14) |
| SRR7082730 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 12 h | 15353037 | 15085000 |  (14) |
| SRR7082729 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 10 h | 26467666 | 25070029 |  (14) |
| SRR7082728 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 8 h | 18891911 | 18058029 |  (14) |
| SRR7082727 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 6 h | 24707762 | 23521477 |  (14) |
| SRR7082726 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 4 h | 29860606 | 28487792 |  (14) |
| SRR7082725 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 2 h | 17575255 | 17028281 |  (14) |
| SRR7082724 |   |   | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 0 h | 28448978 | 27256330 |  (14) |
| SRR6764315 |   |   | single | Rep1 | mycelium | 1% BSA No Vogels No Carbon | 35794113 | 35167613 |  (15) |
| SRR6764316 |   |   | single | rep2 | mycelium | 1% BSA No Vogels No Carbon | 35575299 | 34966936 |  (15) |
| SRR6764319 |   |   | single | rep1 | mycelium | 1% Ground miscanthus No Vogels  | 33379046 | 32850733 |  (15) |
| SRR6764320 |   |   | single | rep2 | mycelium | 1% Ground miscanthus No Vogels  | 37294499 | 36719964 |  (15) |
| SRR6764321 |   |   | single | rep3 | mycelium | 1% Ground miscanthus No Vogels  | 30240188 | 29753694 |  (15) |
| SRR6764326 |   |   | single | rep3 | mycelium | 1% BSA No Vogels No Carbon | 36157642 | 35489853 |  (15) |
| SRR6764329 |   |   | single | rep3 | mycelium | 2% Pectin | 34283960 | 33725173 |  (15) |
| SRR6764334 |   |   | single | rep2 | mycelium | 2% Pectin | 32432627 | 31954097 |  (15) |
| SRR6764333 |   |   | single | rep1` | mycelium | 2% Pectin | 34666626 | 34082198 |  (15) |
| SRR6764335 |   |   | single | rep1 | mycelium | 2% Xylan | 32187664 | 31668804 |  (15) |
| SRR6764336 |   |   | single | rep2 | mycelium | 2% Xylan | 39860983 | 39272511 |  (15) |
| SRR6764337 |   |   | single | rep2 | mycelium | 2% Xylan | 39125428 | 38494188 |  (15) |
| SRR5824389 |   |   | paired | rep3 | Hypha | Maple Sap 360 min (first hyphal branching) | 40837707 | 40817766 |  (16) |
| SRR5824388 |   |   | paired | rep2 | Hypha | Maple Sap 360 min (first hyphal branching) | 68783543 | 68750513 |  (16) |
| SRR5824387 |   |   | paired | rep1 | Hypha | Maple Sap 360 min (first hyphal branching) | 74590618 | 74549934 |  (16) |
| SRR5824386 |   |   | paired | rep3 | Hypha | Maple Sap 240 min (doubling of long axis) | 48071661 | 48047279 |  (16) |
| SRR5824385 |   |   | paired | rep2 | Hypha | Maple Sap 240 min (doubling of long axis) | 69730768 | 69687995 |  (16) |
| SRR5824384 |   |   | paired | rep1 | Hypha | Maple Sap 240 min (doubling of long axis) | 92944494 | 92893753 |  (16) |
| SRR5824383 |   |   | paired | rep3 | Hypha | Maple Sap 120 min (polar growth) | 69898855 | 69857442 |  (16) |
| SRR5824382 |   |   | paired | rep2 | Hypha | Maple Sap 120 min (polar growth) | 85284128 | 85235578 |  (16) |
| SRR5824381 |   |   | paired | rep1 | Hypha | Maple Sap 120 min (polar growth) | 70721144 | 70657696 |  (16) |
| SRR5824380 |   |   | paired | rep3 | Hypha | Maple Sap 15 min (fresh conidia) | 76397653 | 76326953 |  (16) |
| SRR5824379 |   |   | paired | rep2 | Hypha | Maple Sap 15 min (fresh conidia) | 73433768 | 73363537 |  (16) |
| SRR5824378 |   |   | paired | rep1 | Hypha | Maple Sap 15 min (fresh conidia) | 73359082 | 73296616 |  (16) |
| SRR5824377 |   |   | paired | rep3 | Hypha | Bird 360 min (first hyphal branching) | 72632181 | 72582024 |  (16) |
| SRR5824376 |   |   | paired | rep2 | Hypha | Bird 360 min (first hyphal branching) | 69470163 | 69422800 |  (16) |
| SRR5824375 |   |   | paired | rep1 | Hypha | Bird 360 min (first hyphal branching) | 73153840 | 73096840 |  (16) |
| SRR5824374 |   |   | paired | rep3 | Hypha | Bird 240 min (doubling of long axis) | 65618705 | 65565395 |  (16) |
| SRR5824373 |   |   | paired | rep2 | Hypha | Bird 240 min (doubling of long axis) | 90724243 | 90651363 |  (16) |
| SRR5824372 |   |   | paired | rep1 | Hypha | Bird 240 min (doubling of long axis) | 92141560 | 92085896 |  (16) |
| SRR5824371 |   |   | paired | rep3 | Hypha | Bird 120 min (polar growth) | 65964234 | 65904948 |  (16) |
| SRR5824370 |   |   | paired | rep2 | Hypha | Bird 120 min (polar growth) | 42849577 | 42806132 |  (16) |
| SRR5824369 |   |   | paired | rep1 | Hypha | Bird 120 min (polar growth) | 82805689 | 82734622 |  (16) |
| SRR5824368 |   |   | paired | rep3 | conidia | Bird 15 min (fresh conidia) | 79454916 | 79383349 |  (16) |
| SRR5824367 |   |   | paired | rep2 | conidia | Bird 15 min (fresh conidia) | 75822291 | 75753494 |  (16) |
| SRR5824366 |   |   | paired | rep1 | conidia | Bird 15 min (fresh conidia) | 95070913 | 94986563 |  (16) |
| SRR5760434 |   |   | paired | rep3 | conidia | 5 hr germination + 10mM Pi  | 35362279 | 31096485 |  (17) |
| SRR5760433 |   |   | paired | rep2 | conidia | 5 hr germination + 10mM Pi  | 29943629 | 26267039 |  (17) |
| SRR5760432 |   |   | paired | rep1 | conidia | 5 hr germination + 10mM Pi  | 53552104 | 47661852 |  (17) |
| SRR5760431 |   |   | paired | rep3 | conidia | 5 hr germination + 10uM Pi  | 38524725 | 33680750 |  (17) |
| SRR5760430 |   |   | paired | rep2 | conidia | 5 hr germination + 10uM Pi  | 33139222 | 28758187 |  (17) |
| SRR5760429 |   |   | paired | rep1 | conidia | 5 hr germination + 10uM Pi  | 40352560 | 35941143 |  (17) |
| SRR1025976 |   |   | single | rep1 | conidia | Constant light for 6 h + staurosporine 1 hr | 13881322 | 13478385 |  (18) |
| SRR1025975 | SRR1025974 | SRR1025973 |   | rep1 | conidia | Constant light for 6 h + DMSO for 1 hr | 16045818 | 15414333 |  (18) |

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