Table S4. Key nodes

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| node |  |
| Rxra | Rarb, Mapk1, Hdac3, Hdac2, Hdac1 |
| Ptgs2 | Ptgs1, Pla2g5, Pla2g10, Nos2, Mmp9, Egfr, Alox5, Alox12 |
| Ptgs1 | Ptgs2, Pla2g5, Alox5, Alox12, Pla2g10 |
| Pla2g10 | Ptgs2, Ptgs1, Pla2g5, Alox5, Alox12 |
| Pik3ca | Pik3cg, Mtor, Fyn, Esr2, Esr1, Epha2, Egfr, Ar |
| Mtor | Prkab1, Prkaa2, Prkaa1, Pik3cg, Pik3ca, Esr1, Egfr |
| Mmp9 | Ptgs2, Plau, Mmp2, Egfr, Ctsl |
| Mapk1 | Rxra, Rarb, Mapk9, Fyn, Esr2, Esr1, Egfr, Dusp1 |
| Maoa | Slc6a4, Ido1, Htr2a, Drd2, Aoc3 |
| Hdac7 | Hdac8, Hdac3, Hdac2, Hdac1, Esr1, Ar |
| Hdac6 | NIrp3, Hdac2, Hdac11, Hdac1, Egfr, Ar |
| Hdac3 | Rxra, Rarb, Hdac7, Hdac4, Hdac2, Hdac1, Esr1 |
| Hdac2 | Rxra, Oprm1, Hdac7, Hdac6, Hdac4, Hdac3, Hdac1, Gata4, Esr1, Csnk2a1, Ar |
| Hdac1 | Rxra, Rarb, Parp1, Oprm1, Hdac7, Hdac6, Hdac4, Hdac3, Hdac2, Esr1, Csnk2a1, Ar |
| Fyn | Ptpn1, Pik3cg, Pik3ca, Mapk1, Esr1, Epha2, Egfr |
| Esr2 | Pik3ca, Nos3, Mapk9, Mapk1, Esr1, Egfr |
| Esr1 | Pik3ca, Parp1, Nos3, Mtor, Mapk9, Mapk1, Hdac7, Hdac4, Hdac3, Hdac2, Hdac1, Fyn, Esr2, Egfr |
| Egfr | Ptpn1, Ptgs2, Plau, Pik3ca, Mtor, Mmp9, Mapk1, Itga5, Hdac6, Fyn, Esr2, Esr1, Ar, Adrb1, Adam17 |
| Chrna7 | Chrnb2, Chrna5, Chrna4, Chrna3, Ache |