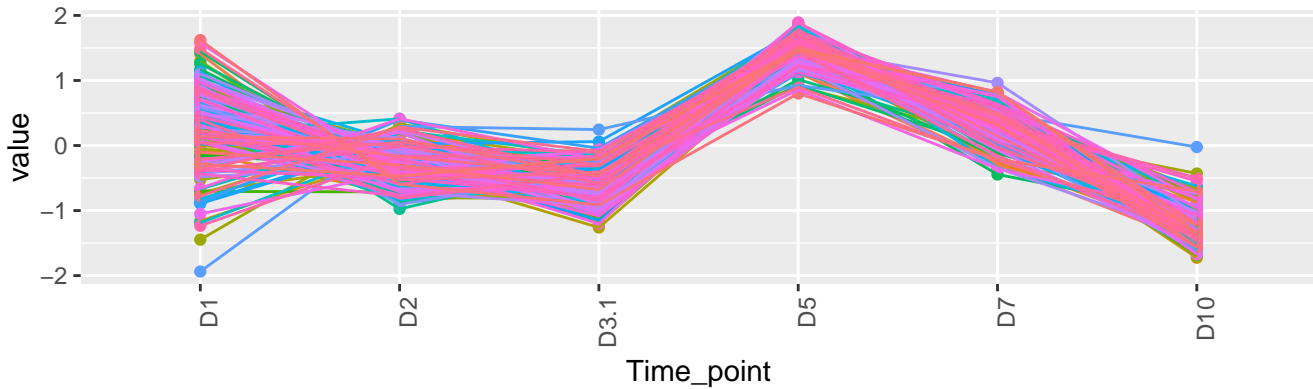
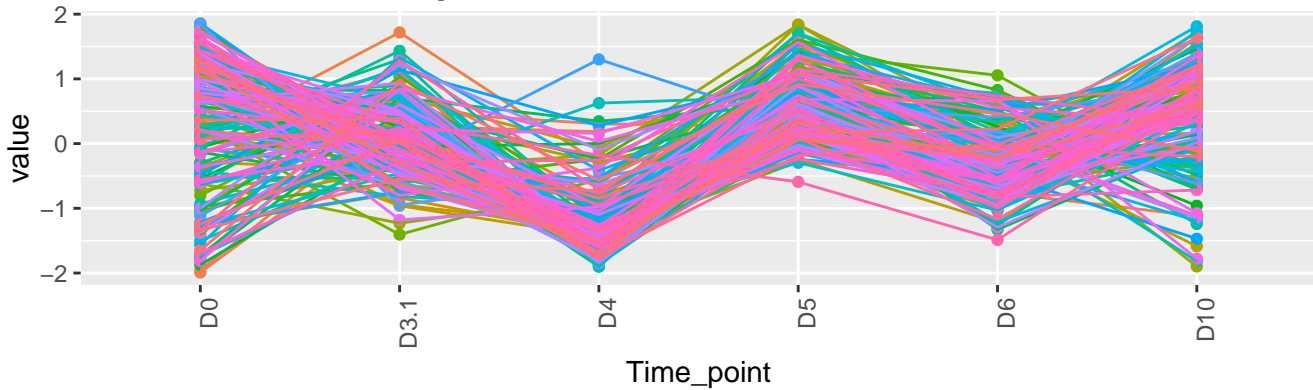


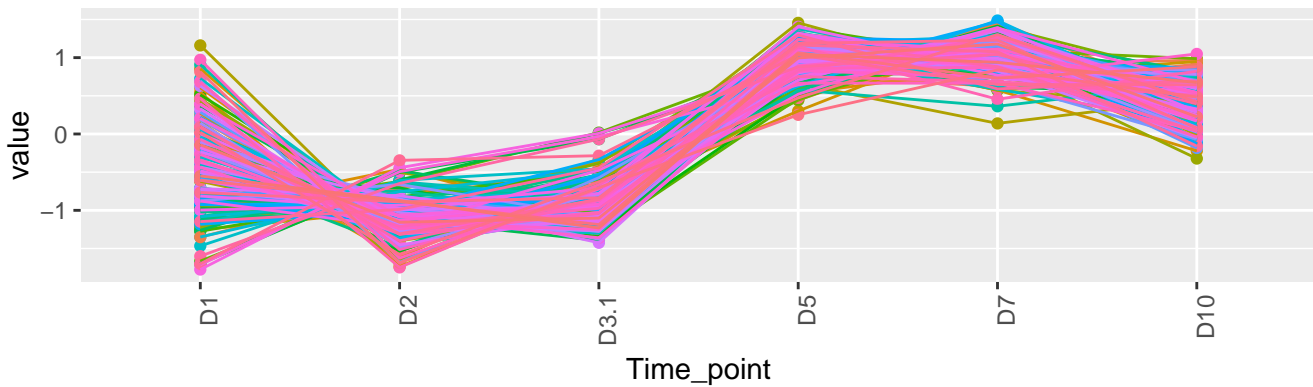
169 genes – WT-cluster-300-standardized



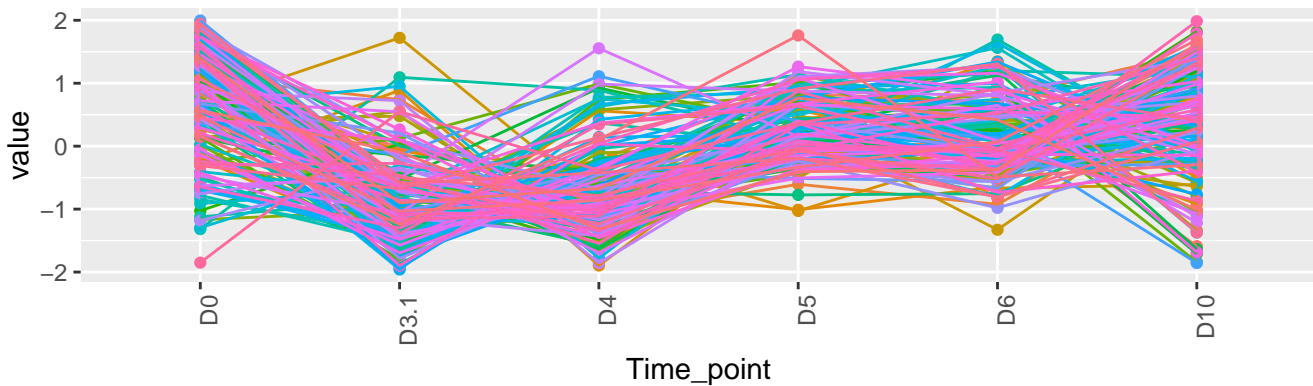
169 genes – KO-cluster-300-standardized



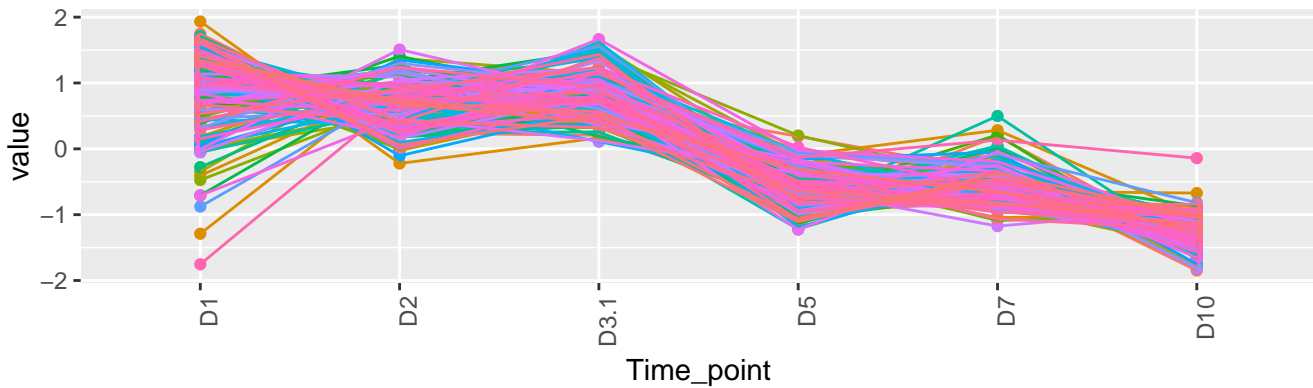
150 genes – WT-cluster-299-standardized



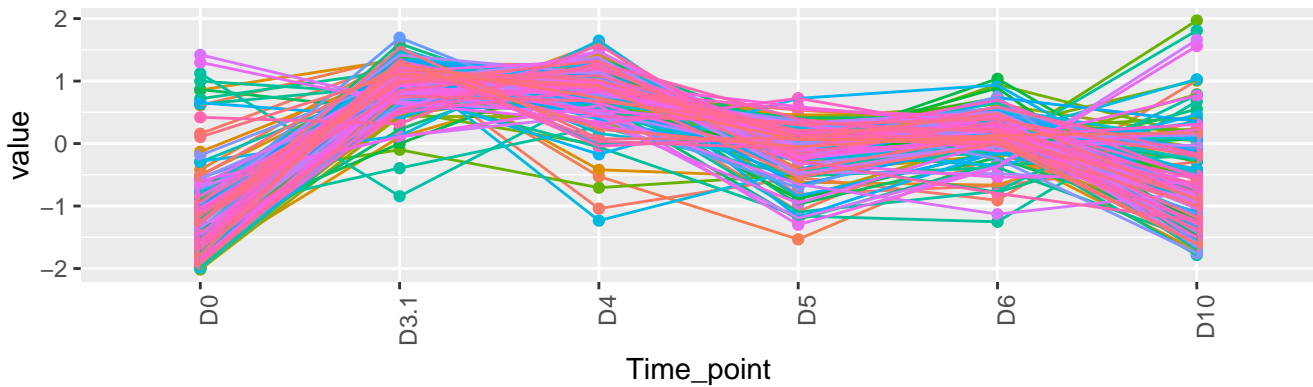
150 genes – KO-cluster-299-standardized



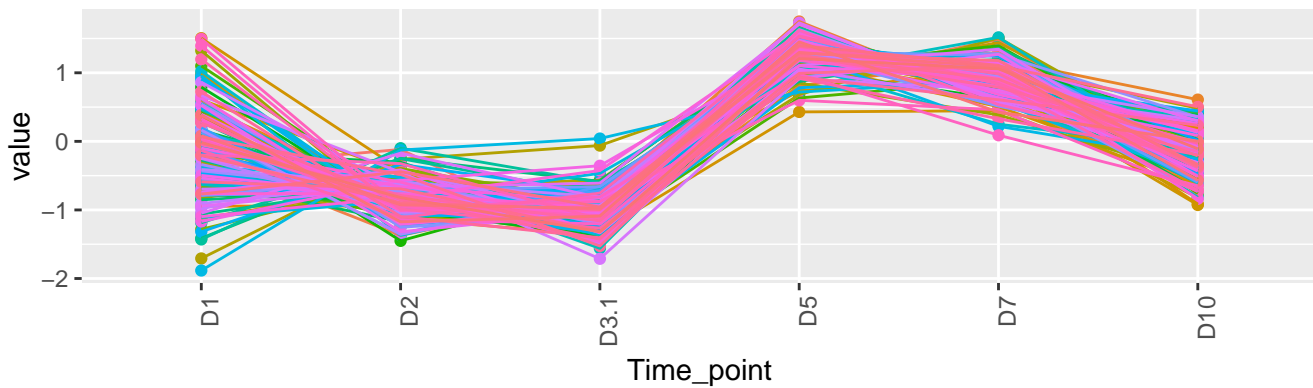
149 genes – WT-cluster-298-standardized



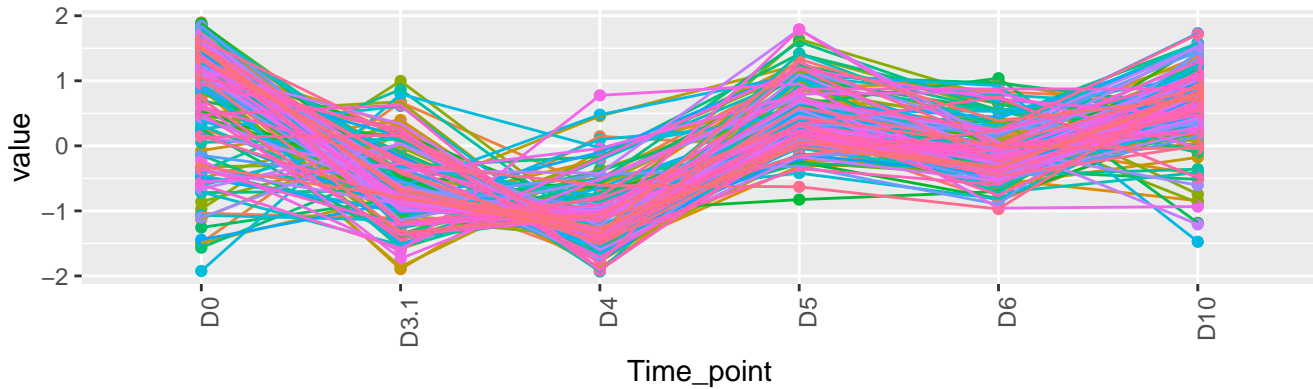
148 genes – KO-cluster-298-standardized



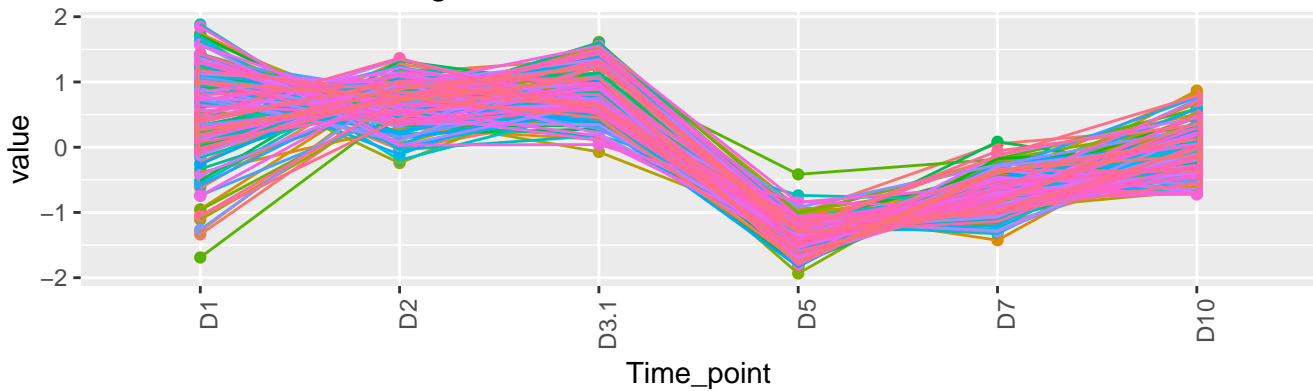
148 genes – WT-cluster-297-standardized



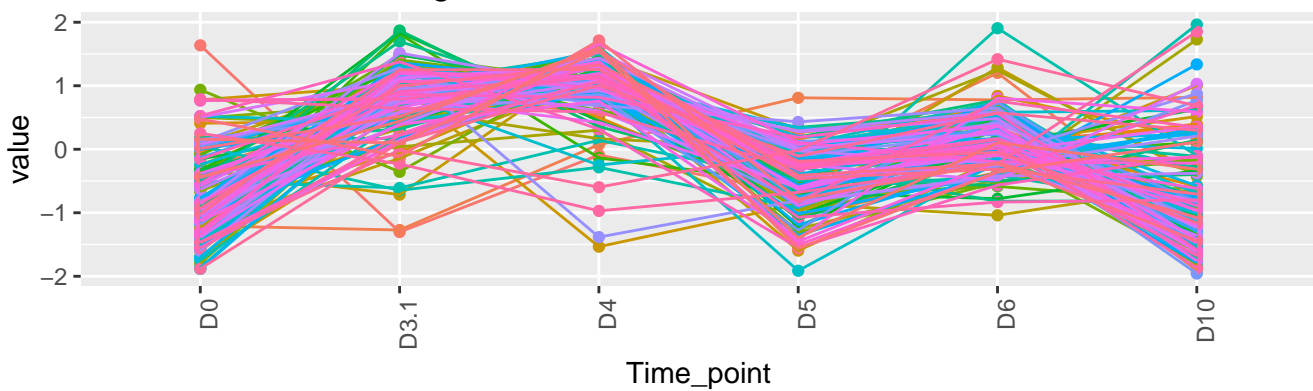
148 genes – KO-cluster-297-standardized



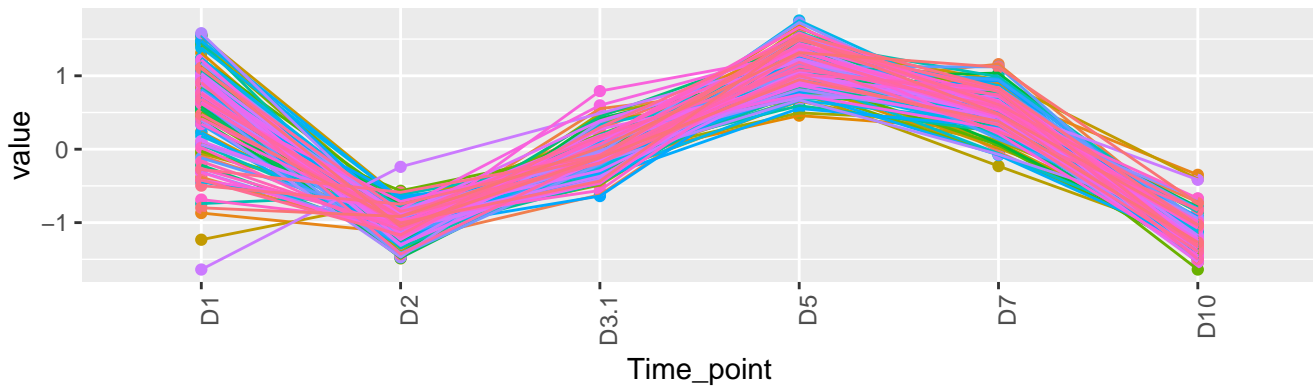
142 genes – WT-cluster-296-standardized



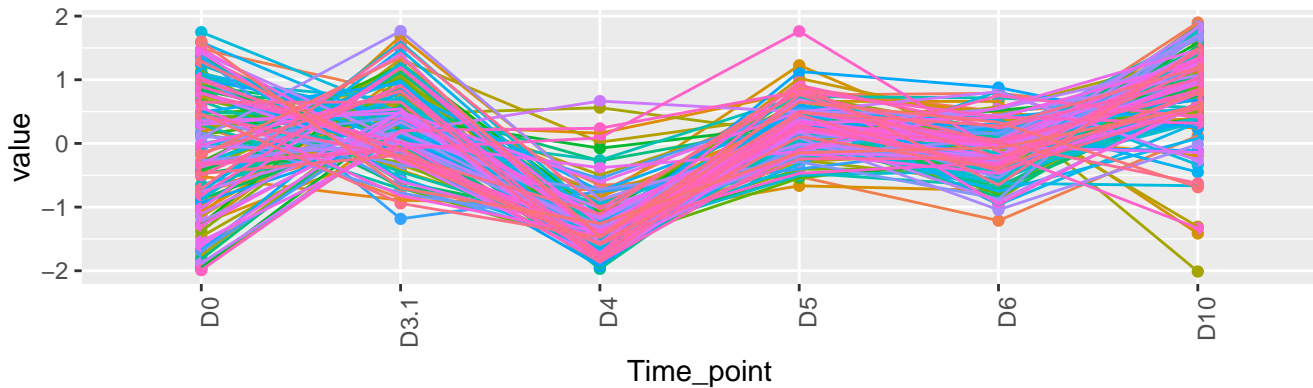
137 genes – KO-cluster-296-standardized



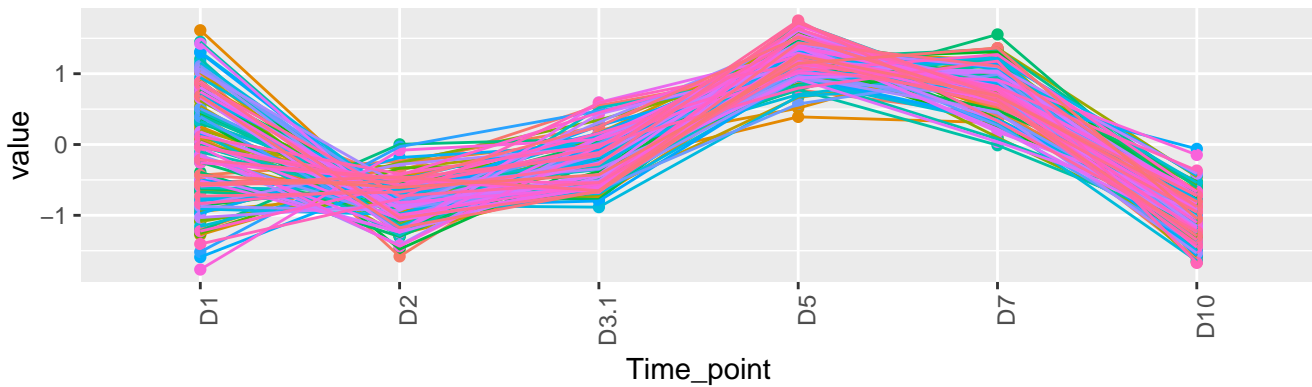
131 genes – WT-cluster-295-standardized



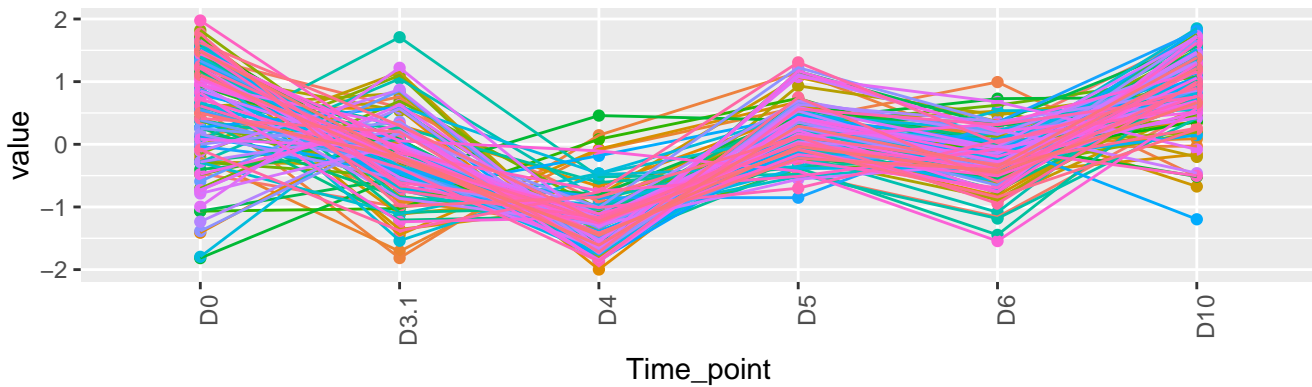
131 genes – KO-cluster-295-standardized



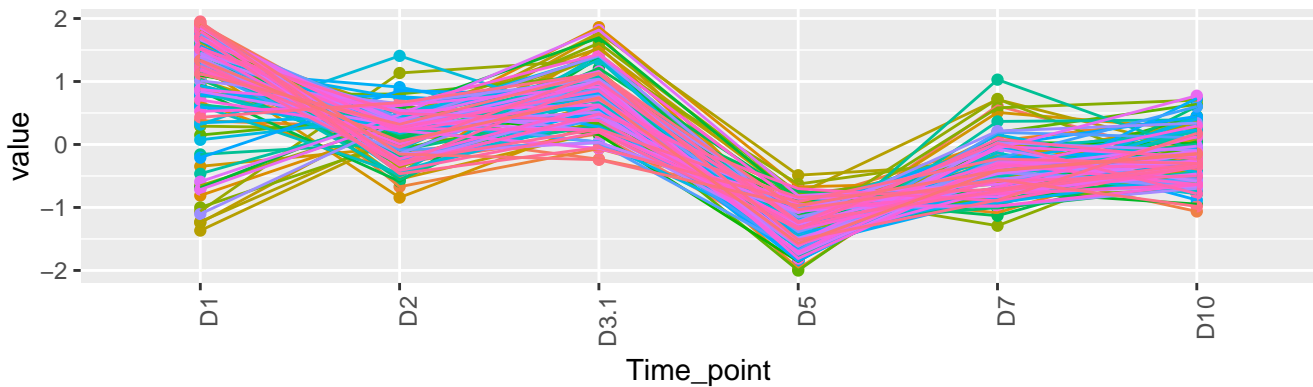
119 genes – WT-cluster-294-standardized



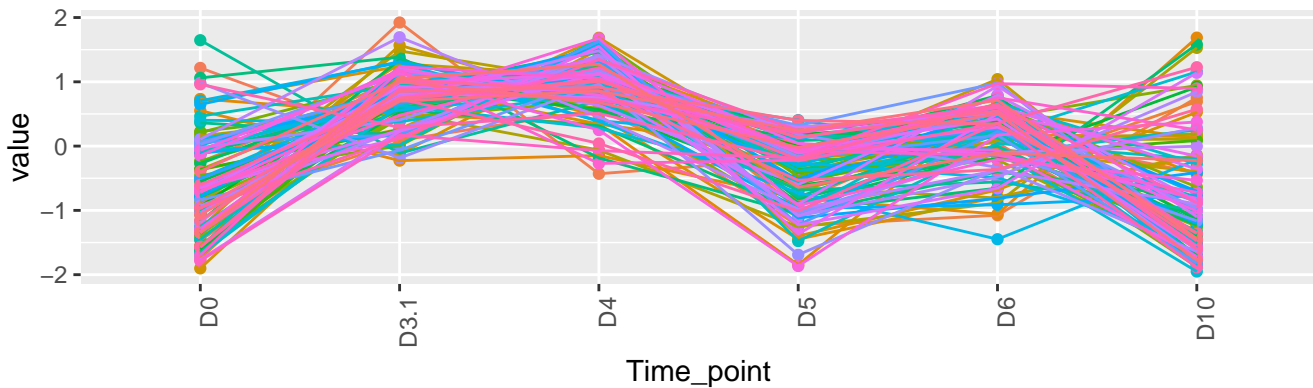
118 genes – KO-cluster-294-standardized



112 genes – WT-cluster-293-standardized

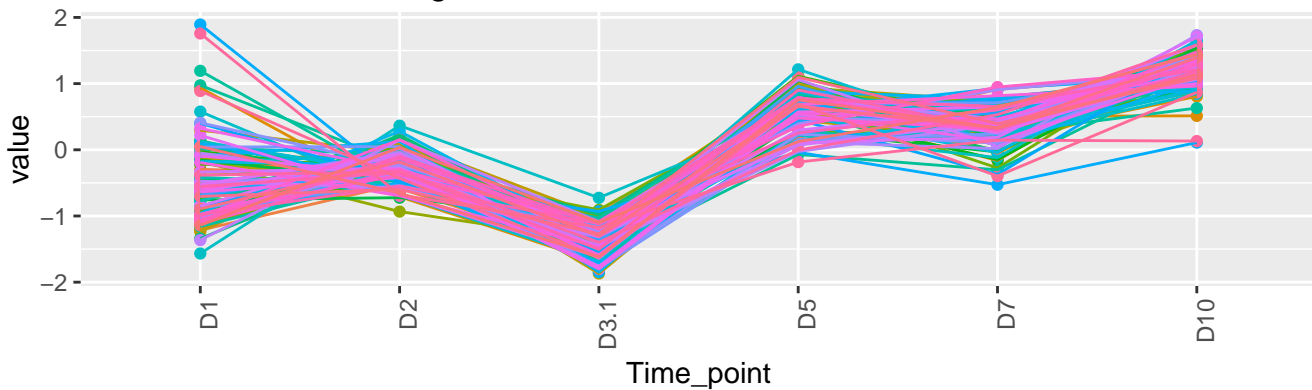


108 genes – KO-cluster-293-standardized

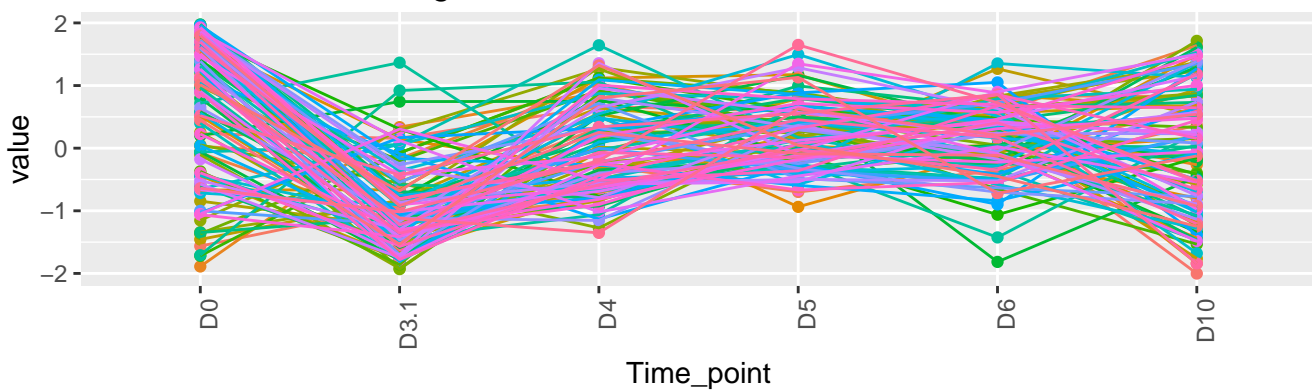




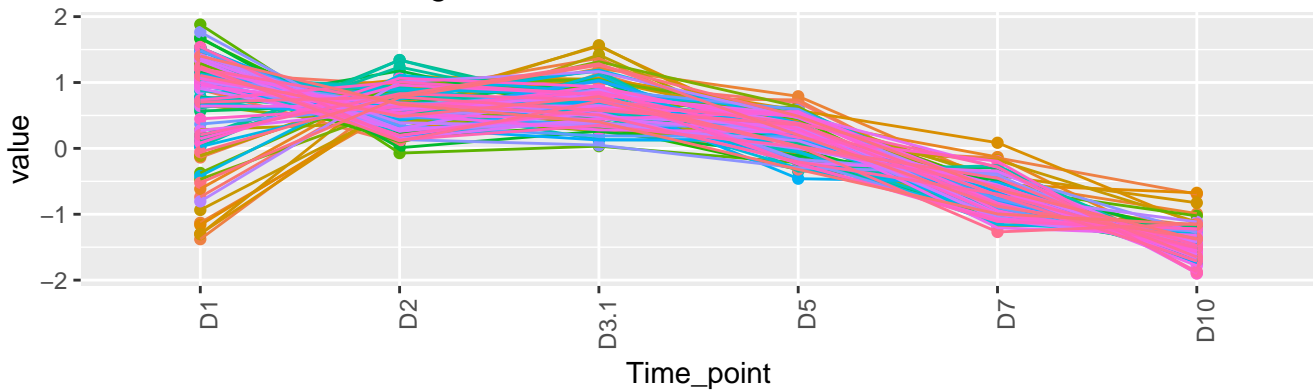
104 genes – WT-cluster-292-standardized



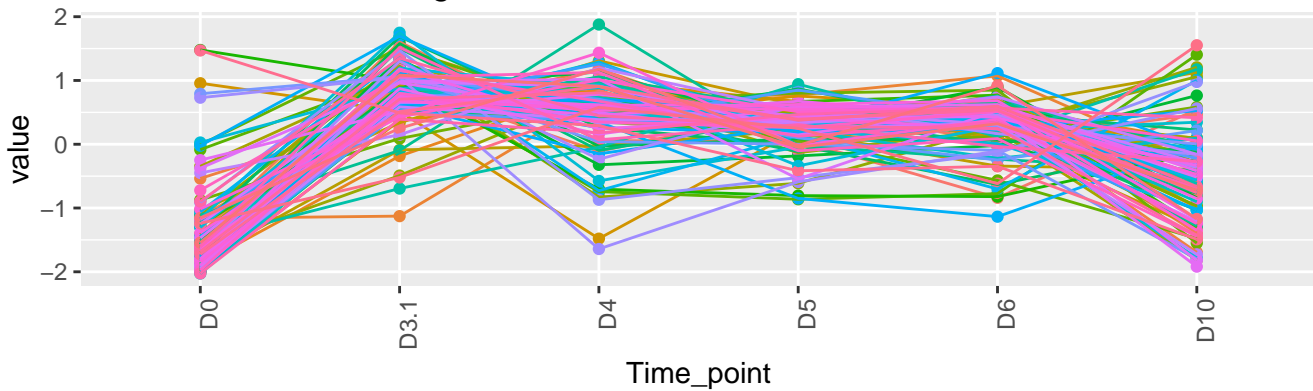
103 genes – KO-cluster-292-standardized



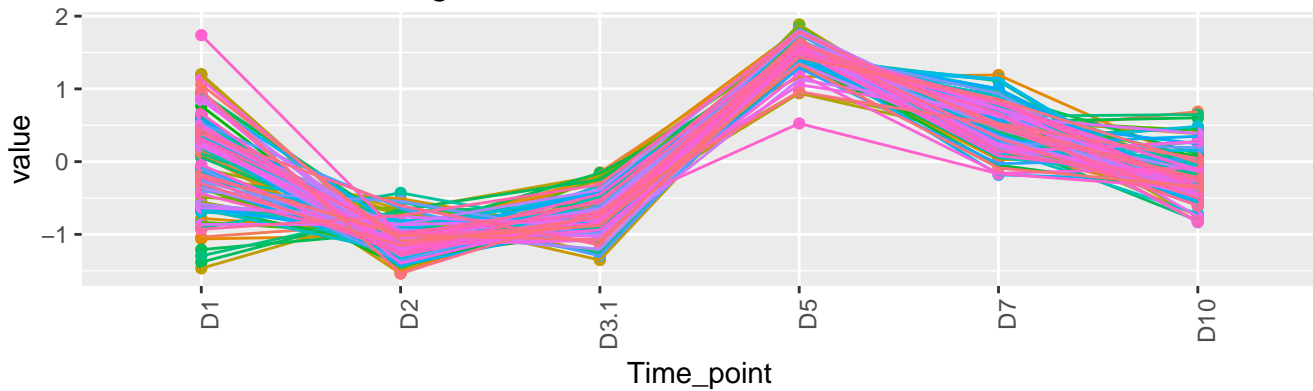
104 genes – WT-cluster-291-standardized



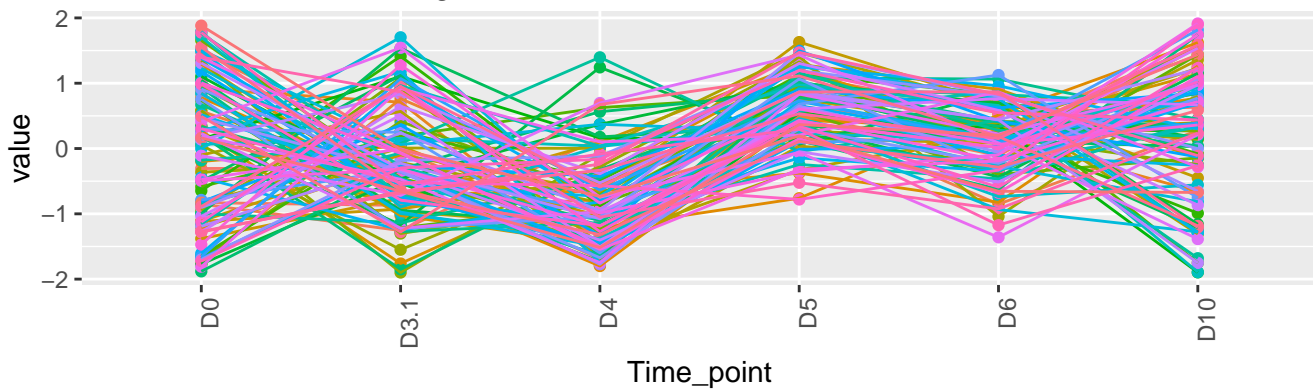
103 genes – KO-cluster-291-standardized



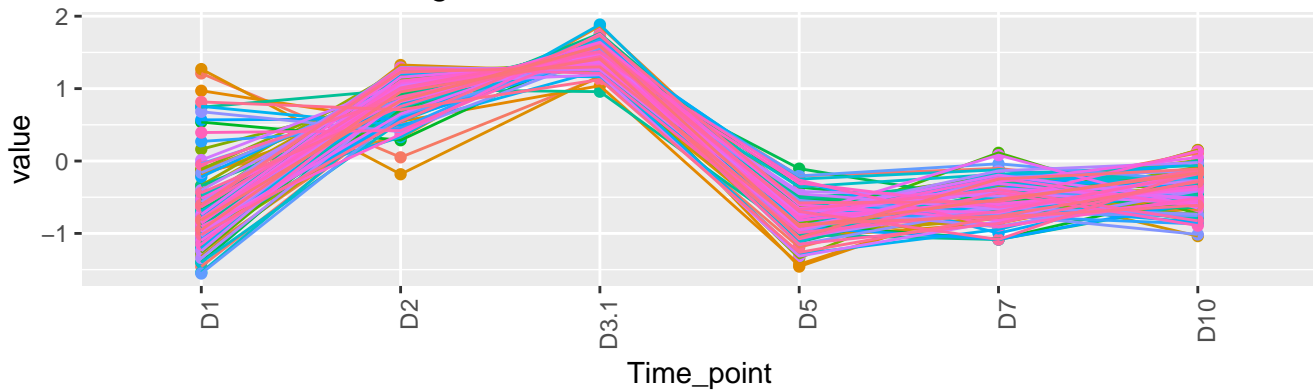
102 genes – WT-cluster-290-standardized



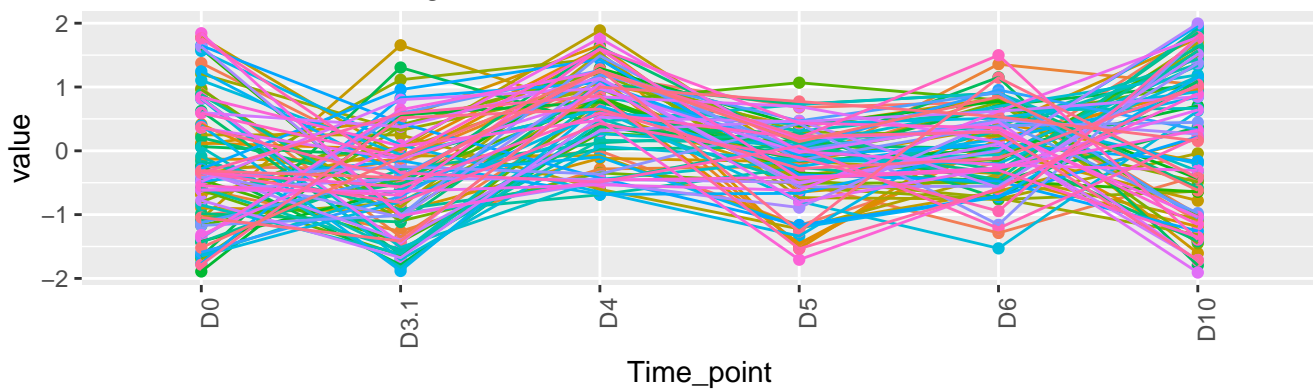
102 genes – KO-cluster-290-standardized



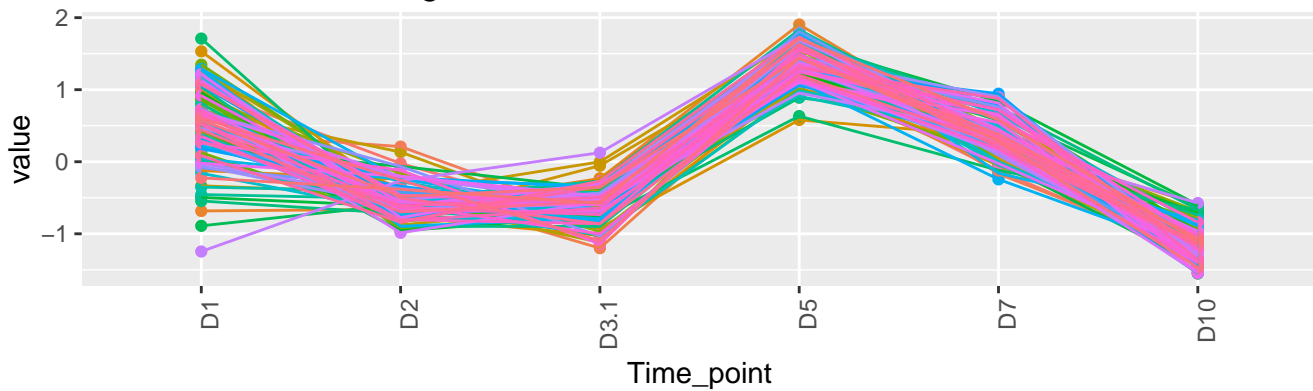
102 genes – WT-cluster-289-standardized



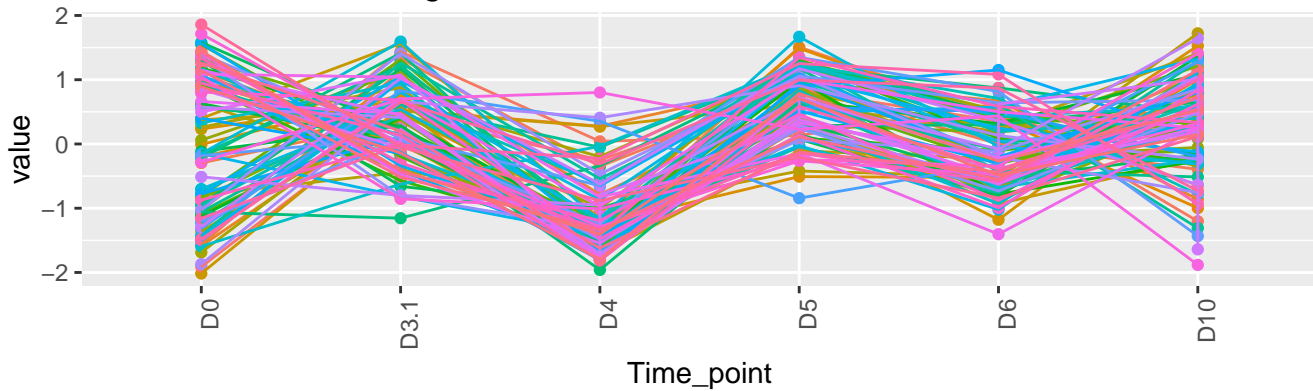
85 genes – KO-cluster-289-standardized



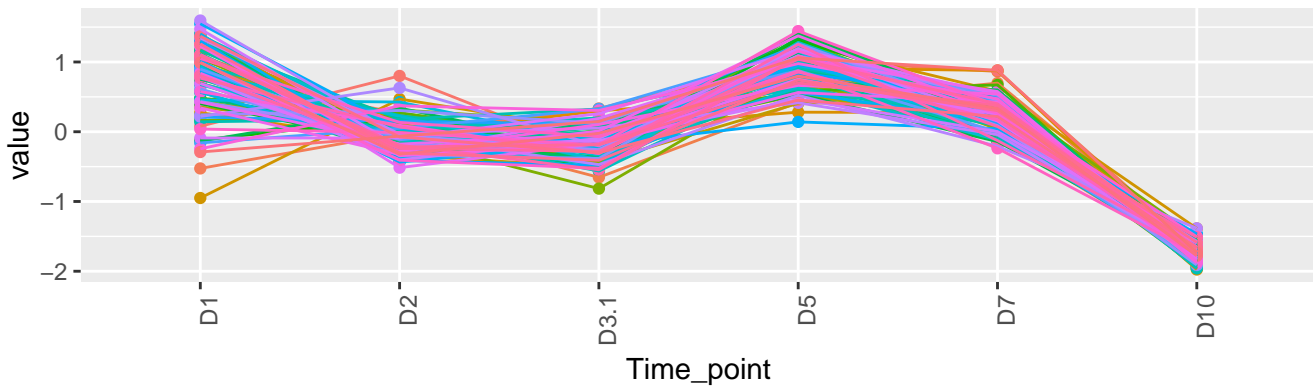
95 genes – WT-cluster-288-standardized



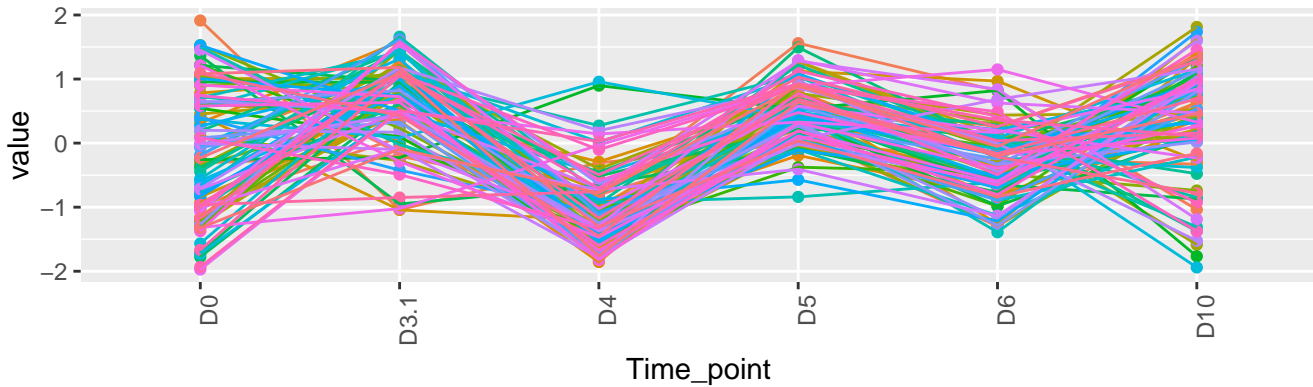
94 genes – KO-cluster-288-standardized



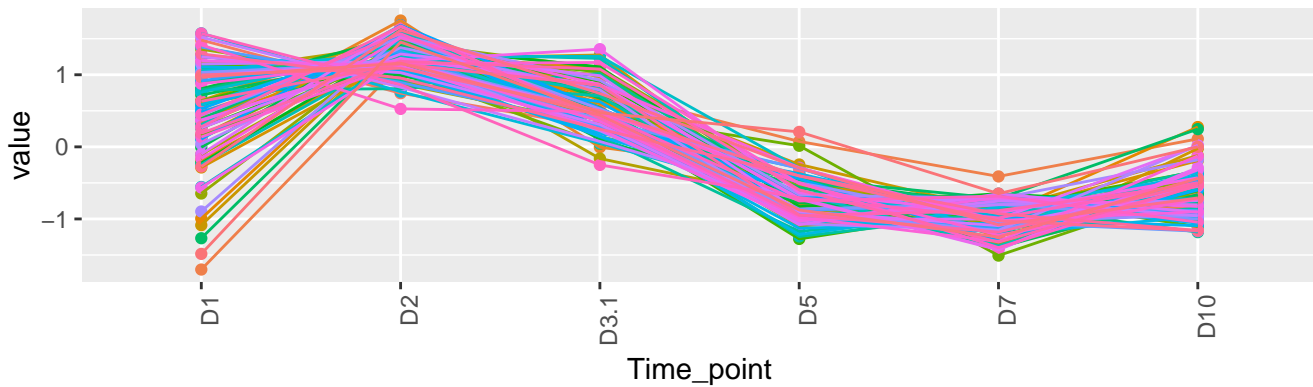
93 genes – WT-cluster-287-standardized



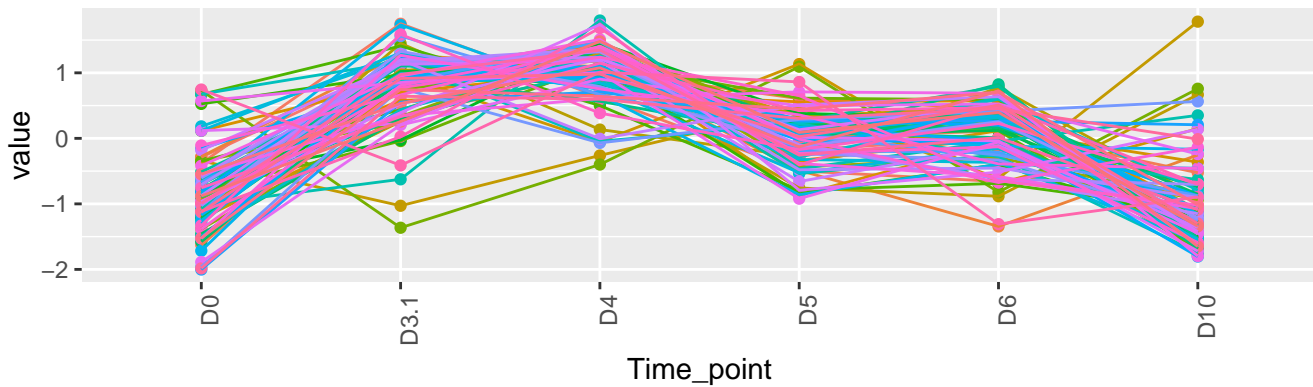
93 genes – KO-cluster-287-standardized



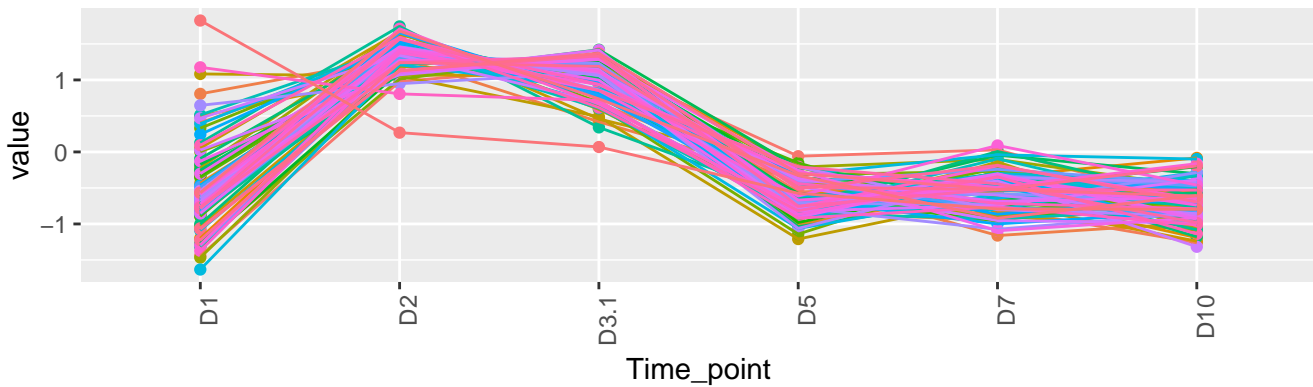
91 genes – WT-cluster-286-standardized



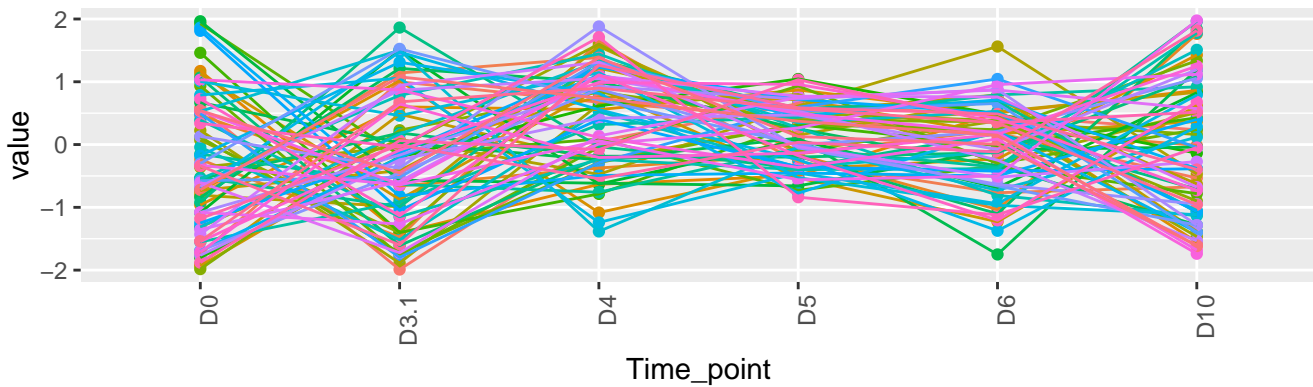
90 genes – KO-cluster-286-standardized



90 genes – WT-cluster-285-standardized

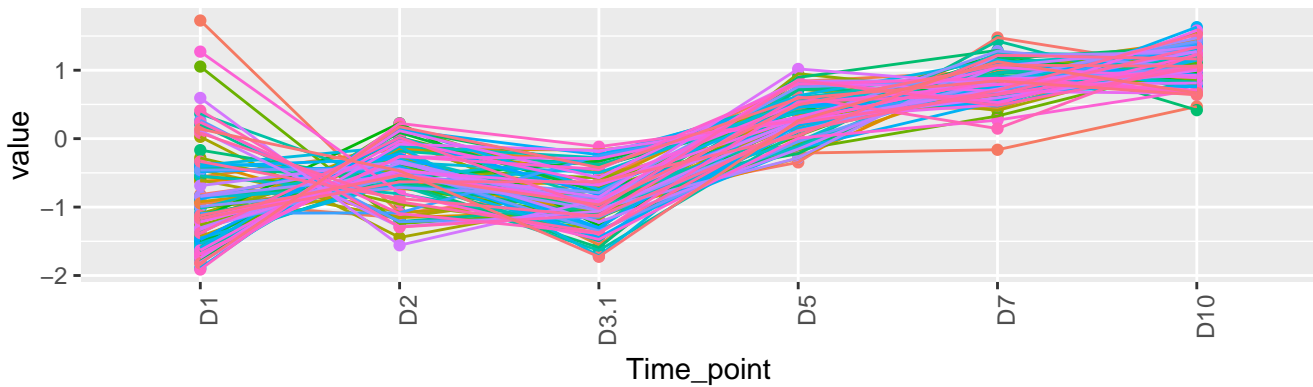


71 genes – KO-cluster-285-standardized

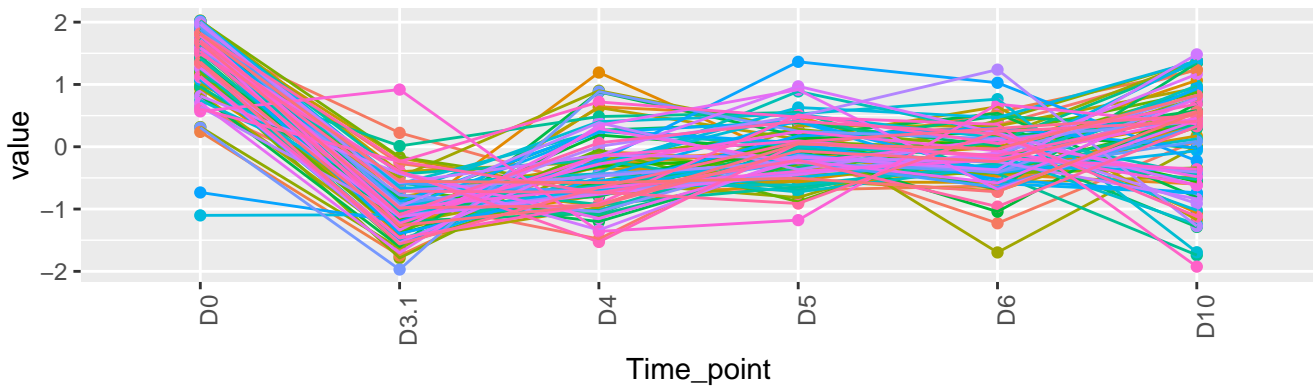




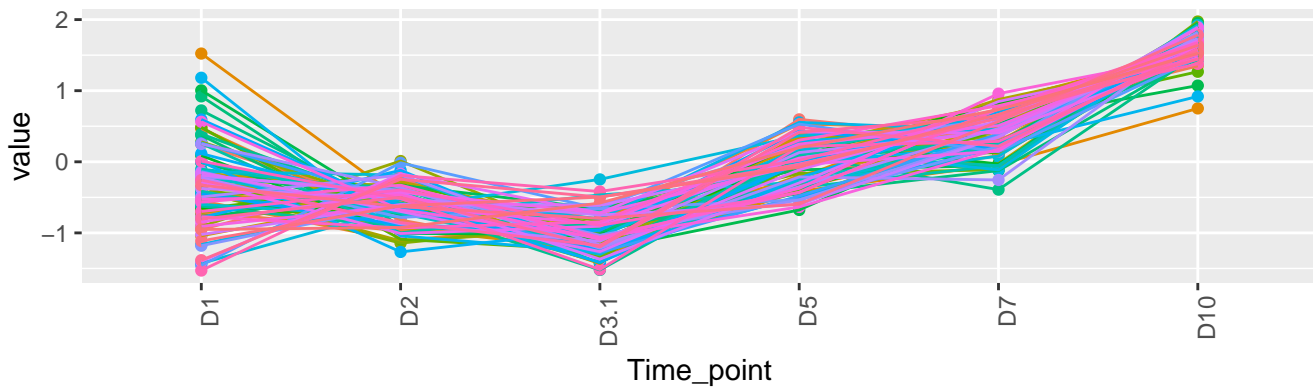
86 genes – WT-cluster-284-standardized



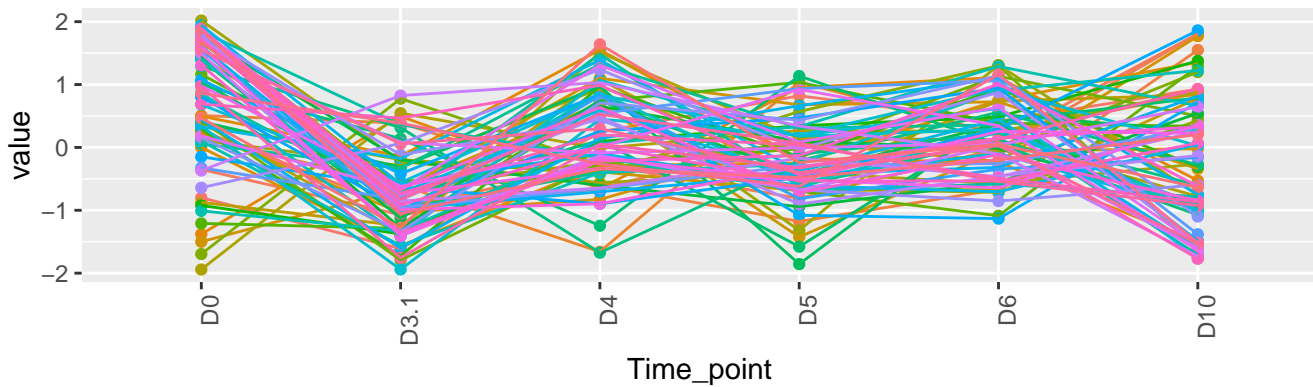
84 genes – KO-cluster-284-standardized



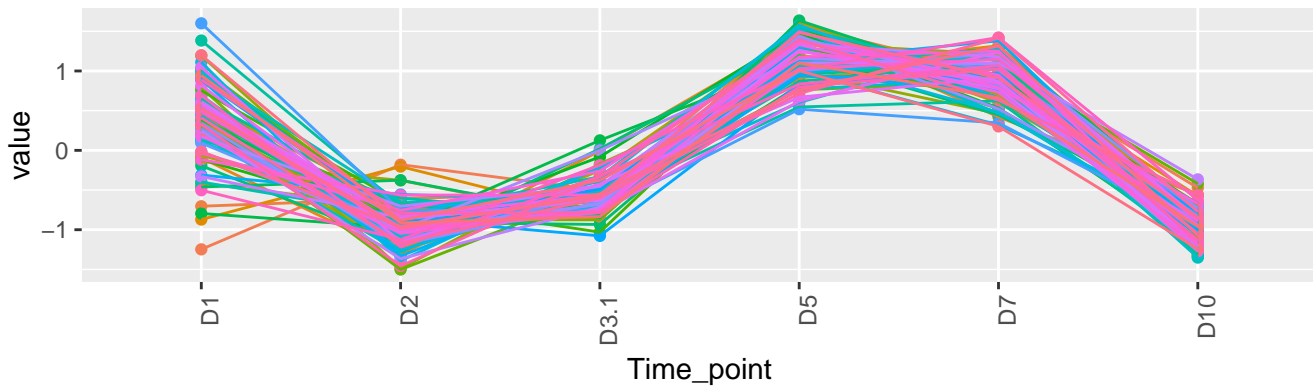
83 genes – WT-cluster-283-standardized



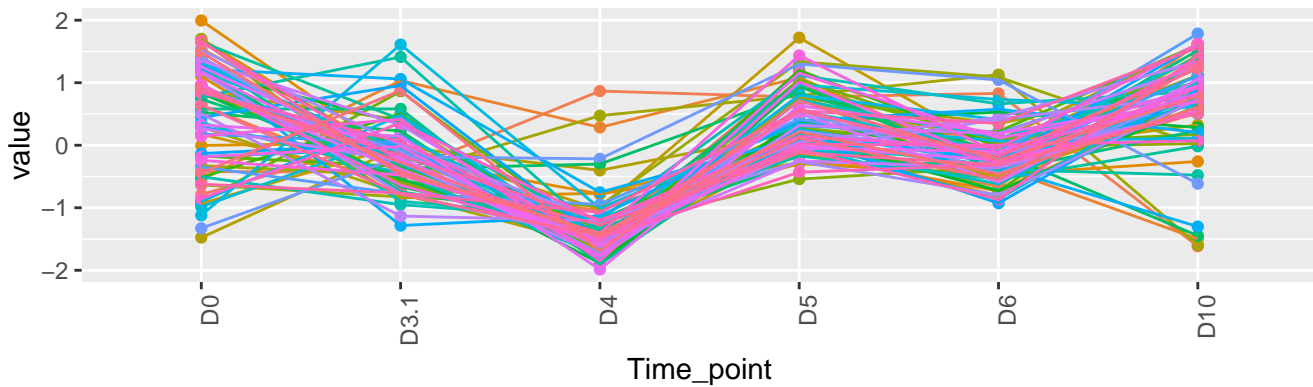
77 genes – KO-cluster-283-standardized



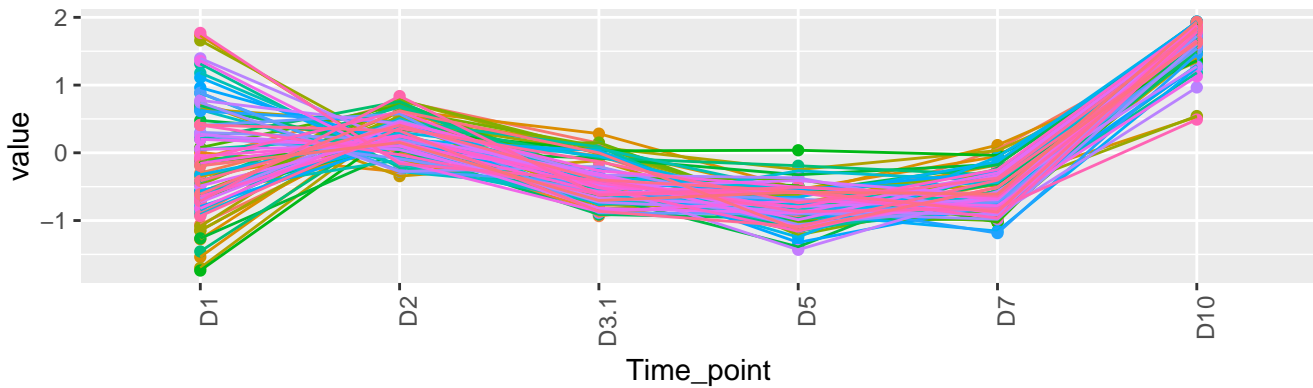
81 genes – WT-cluster-282-standardized



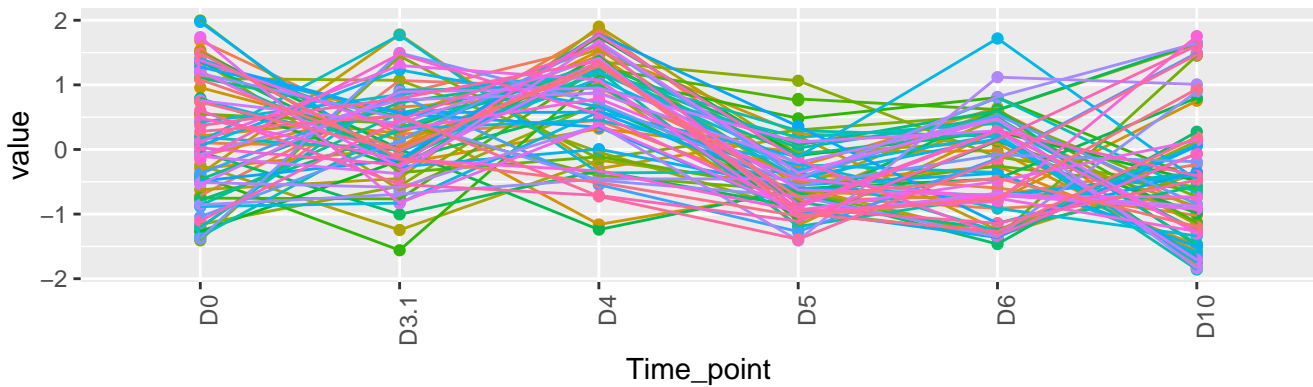
80 genes – KO-cluster-282-standardized



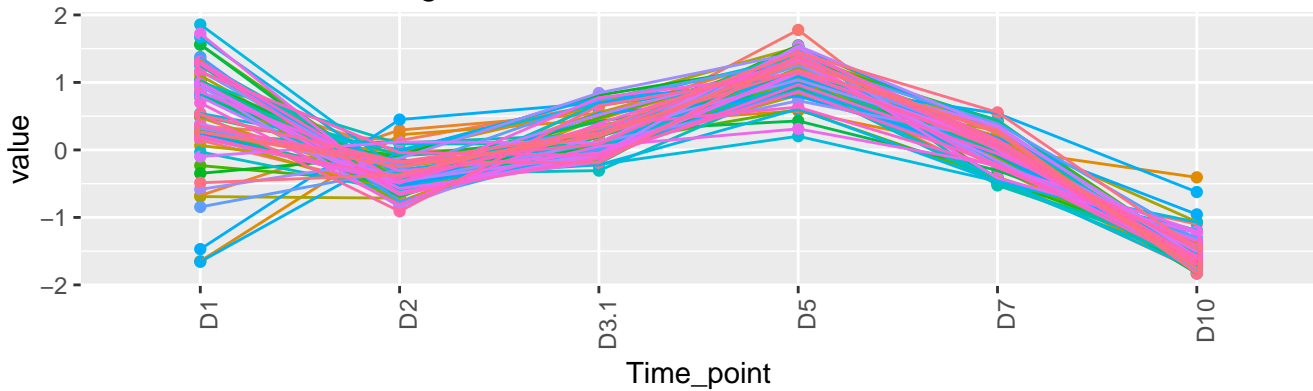
80 genes – WT-cluster-281-standardized



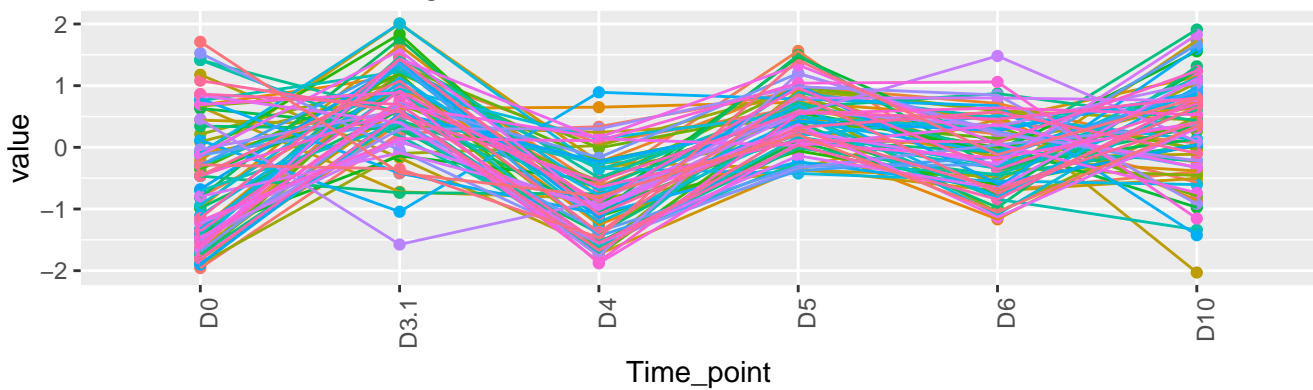
70 genes – KO-cluster-281-standardized



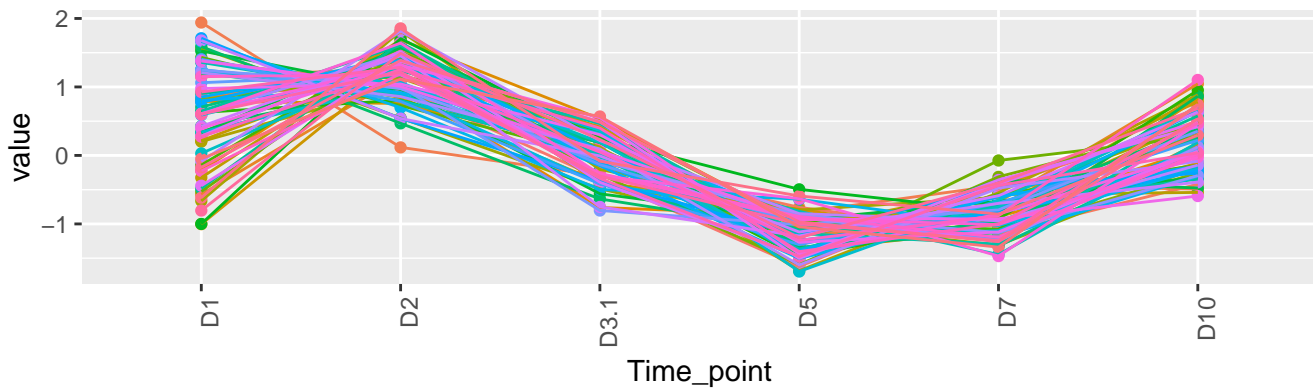
75 genes – WT-cluster-280-standardized



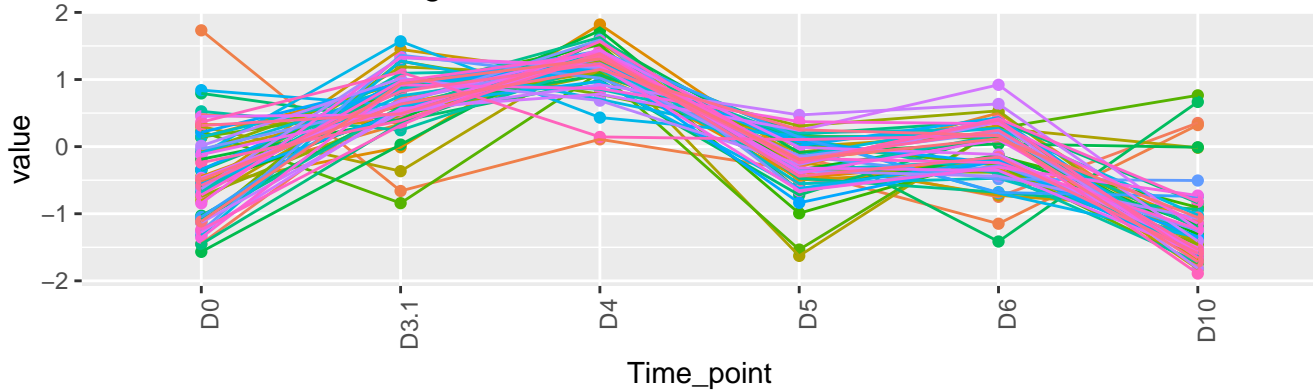
75 genes – KO-cluster-280-standardized



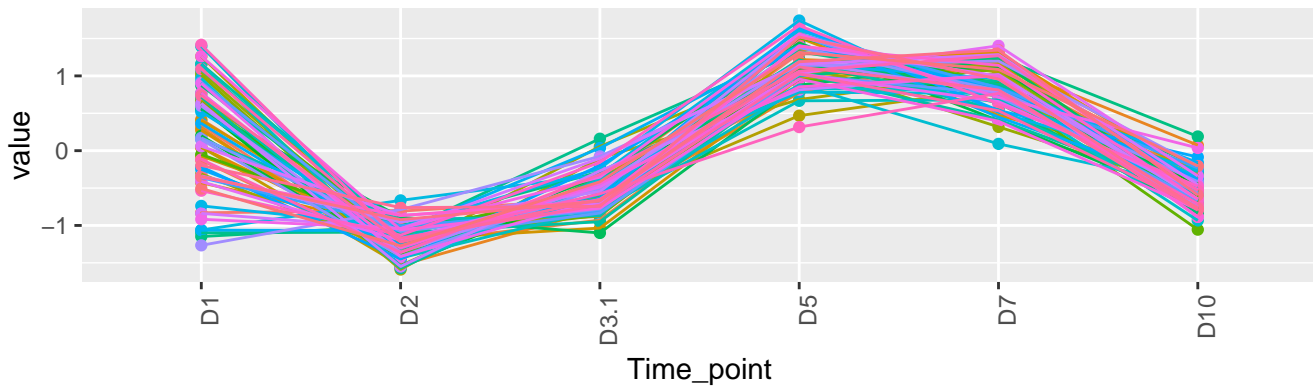
72 genes – WT-cluster-279-standardized



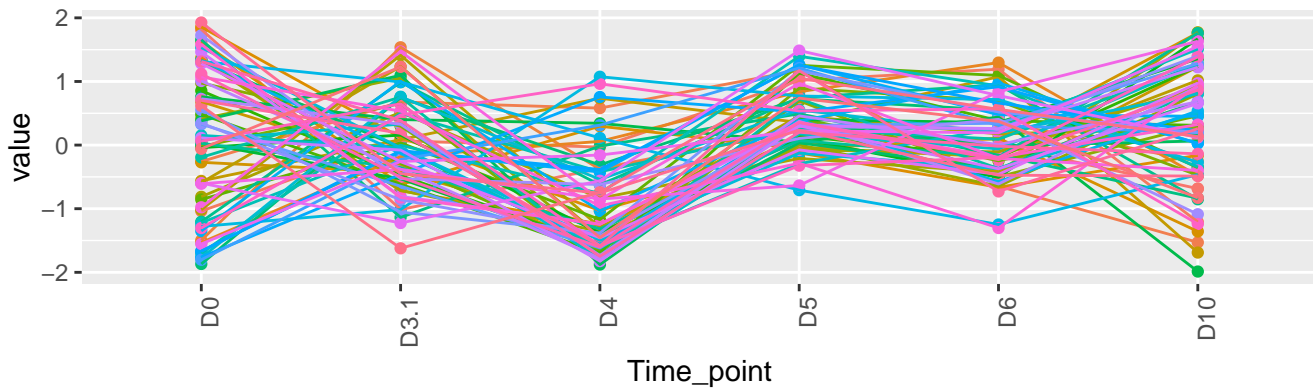
60 genes – KO-cluster-279-standardized



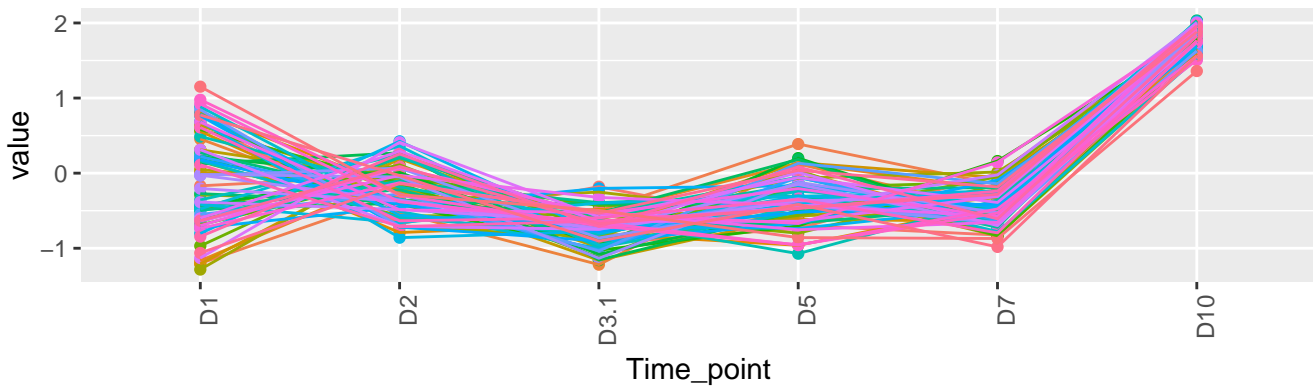
70 genes – WT–cluster–278–standardized



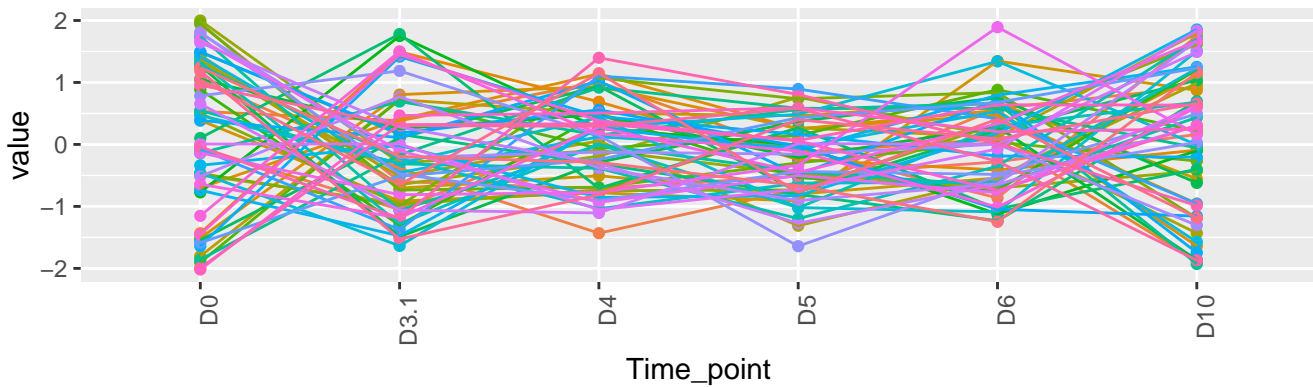
70 genes – KO–cluster–278–standardized



68 genes – WT-cluster-277-standardized

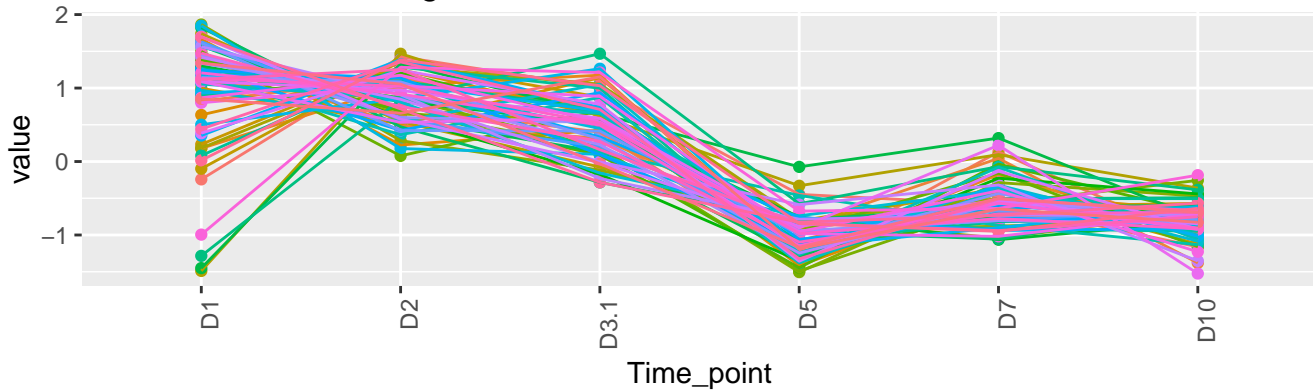


60 genes – KO-cluster-277-standardized

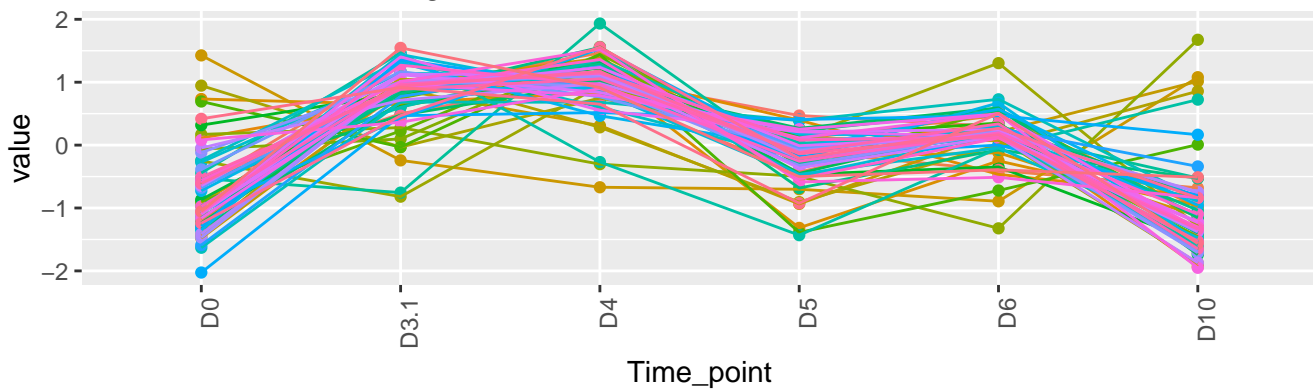




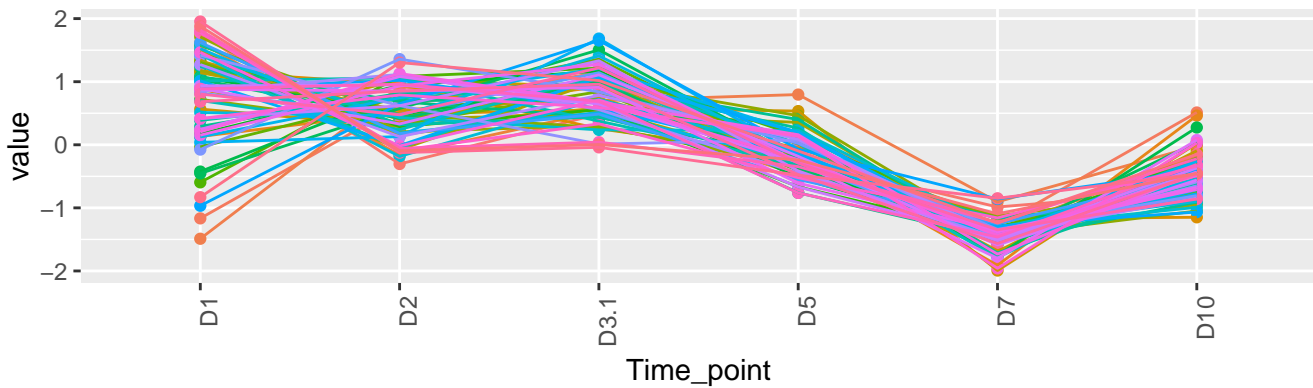
67 genes – WT-cluster-276-standardized



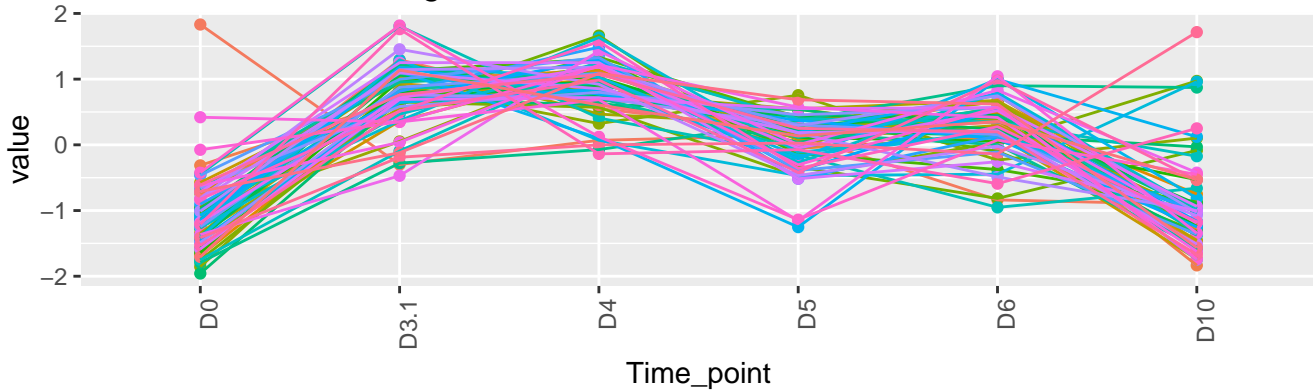
62 genes – KO-cluster-276-standardized



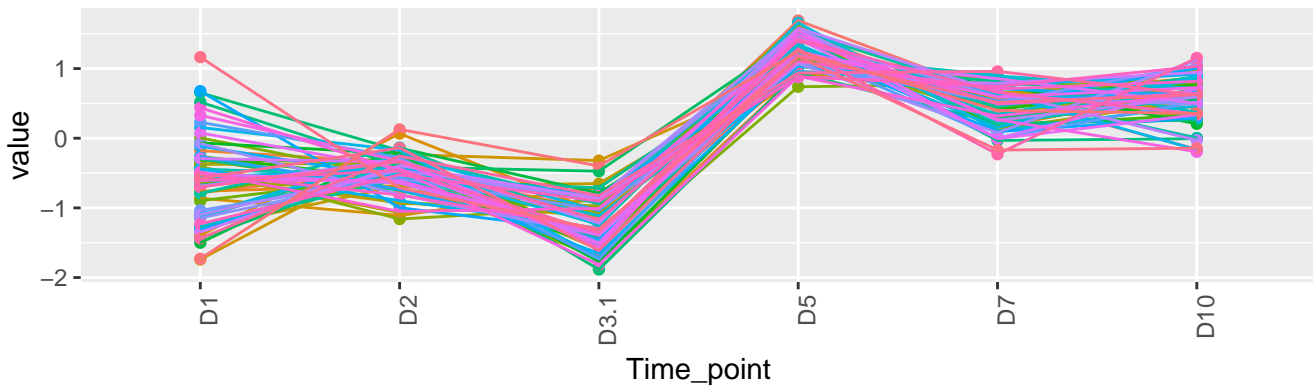
66 genes – WT-cluster-275-standardized



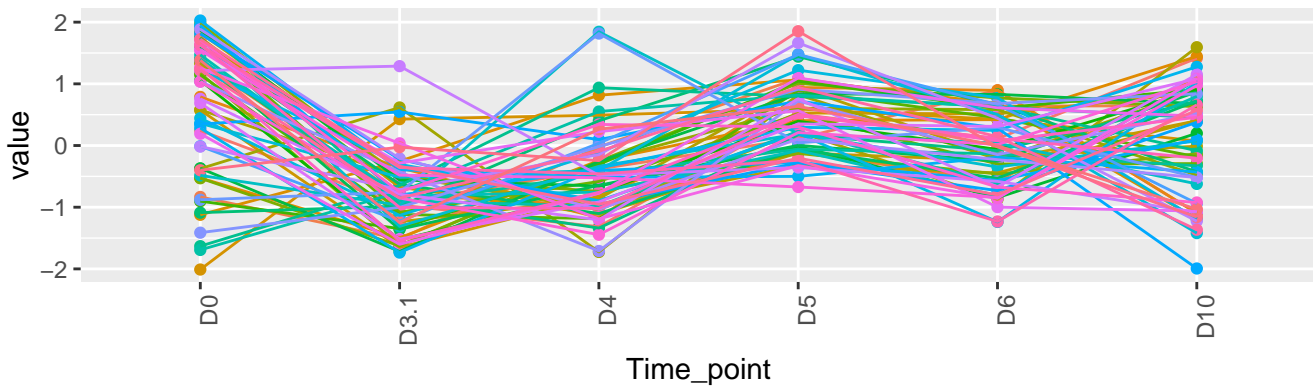
65 genes – KO-cluster-275-standardized



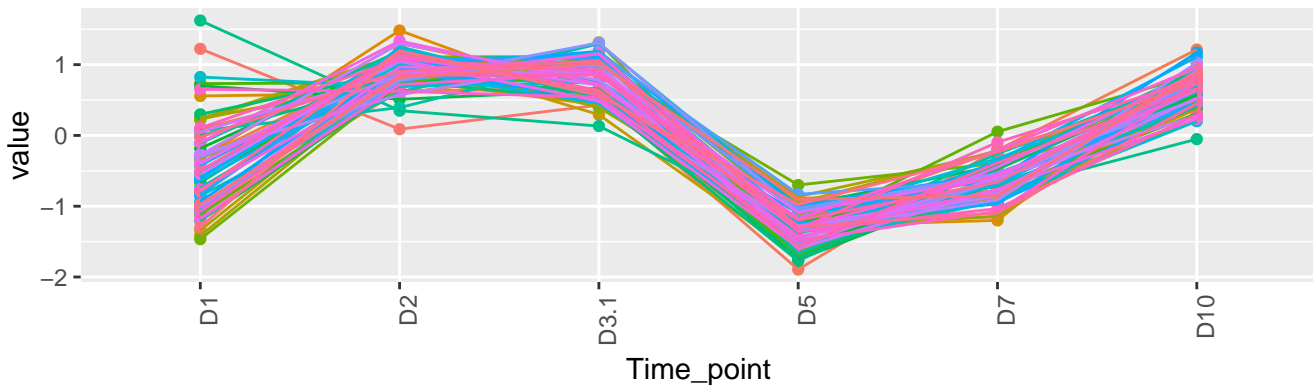
65 genes – WT-cluster-274-standardized



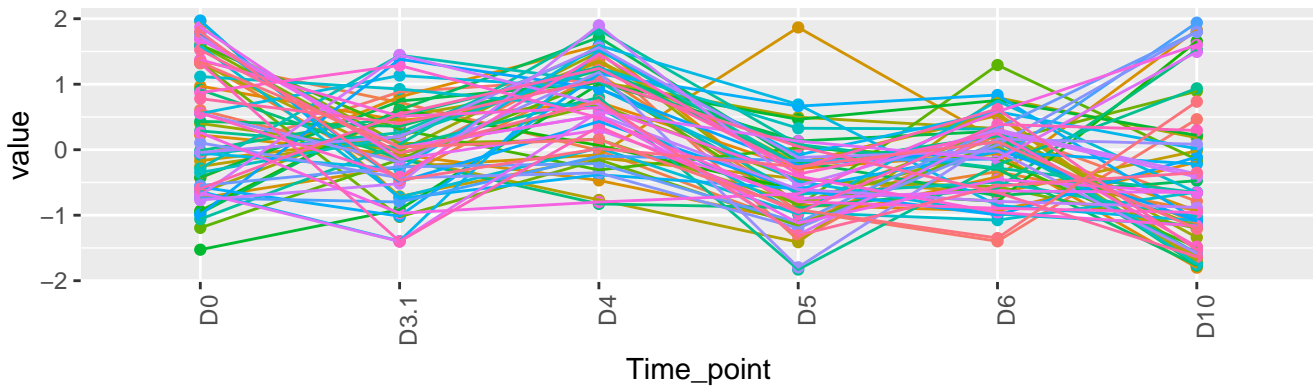
64 genes – KO-cluster-274-standardized



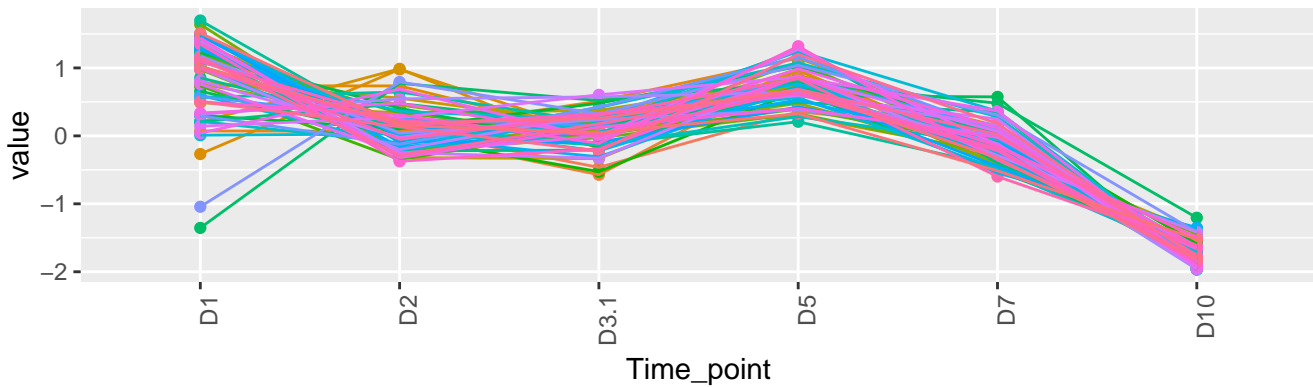
65 genes – WT-cluster-273-standardized



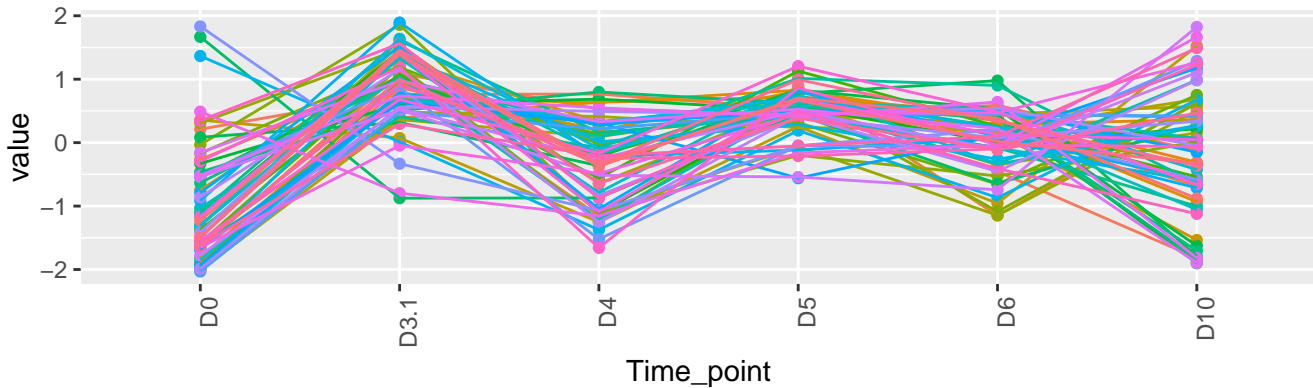
61 genes – KO-cluster-273-standardized



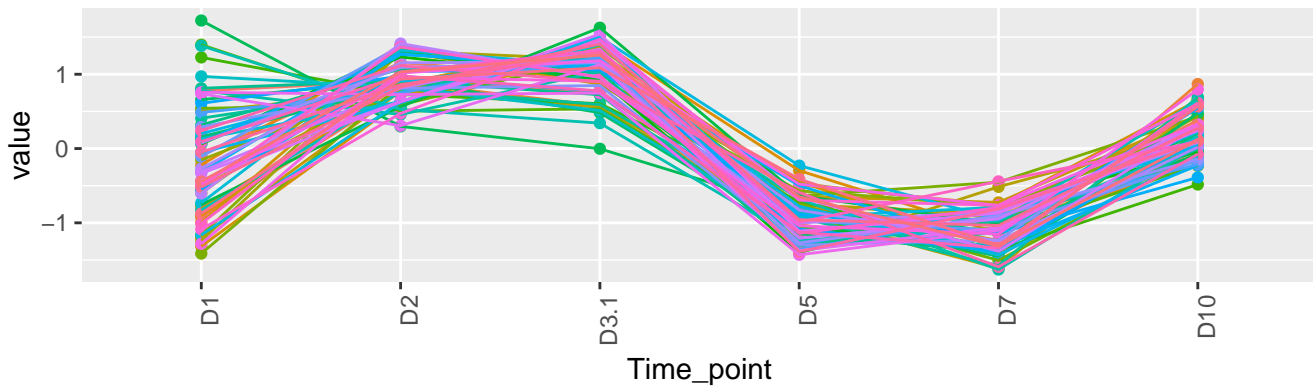
64 genes – WT-cluster-272-standardized



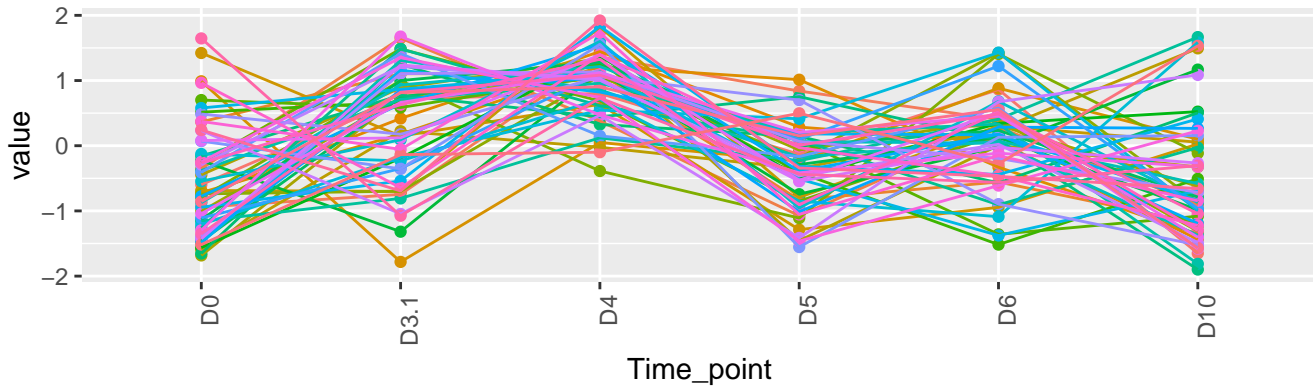
64 genes – KO-cluster-272-standardized



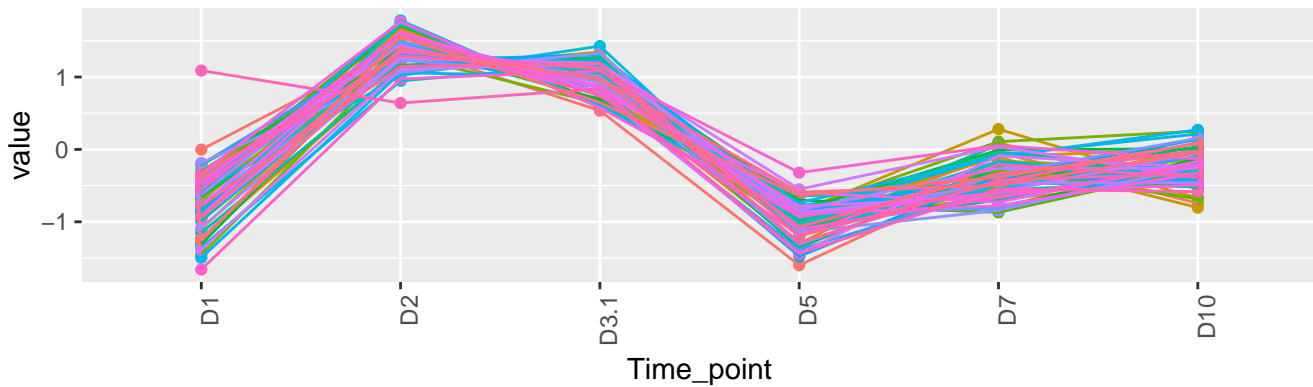
64 genes – WT-cluster-271-standardized



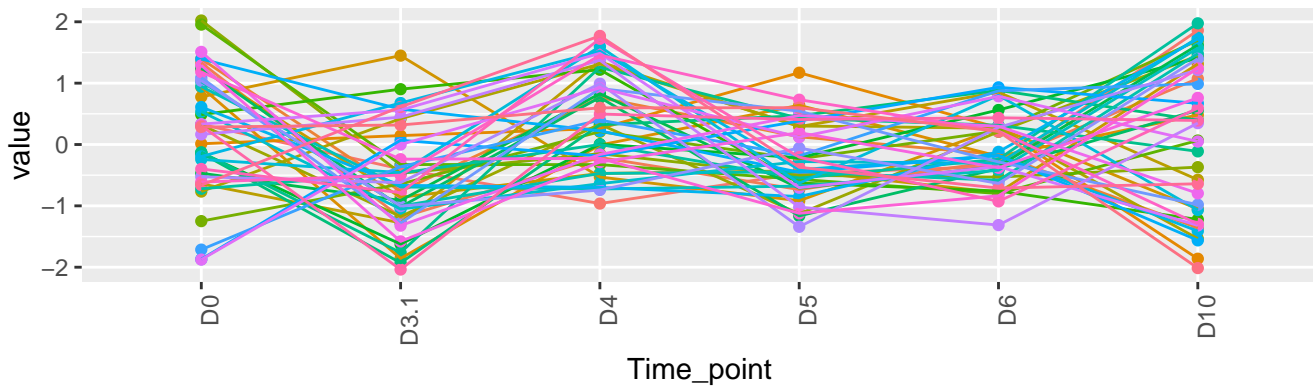
57 genes – KO-cluster-271-standardized



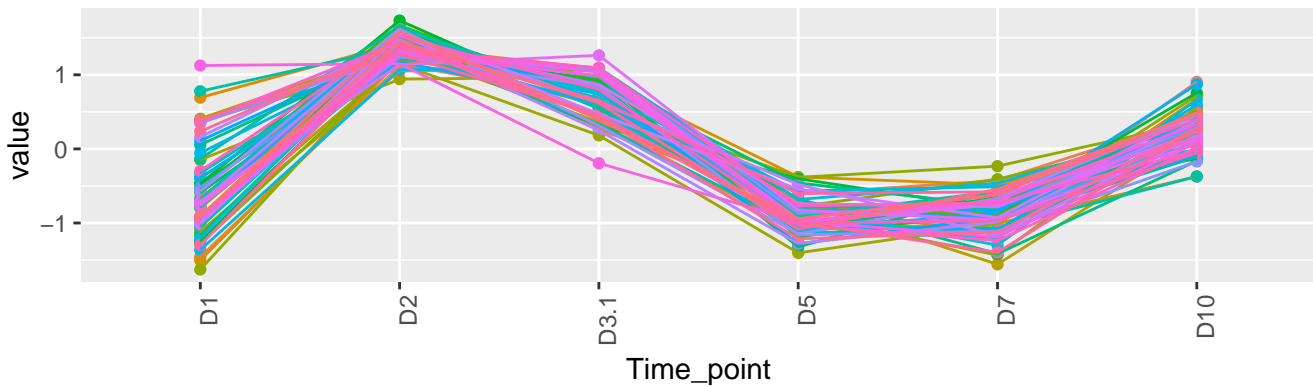
63 genes – WT-cluster-270-standardized



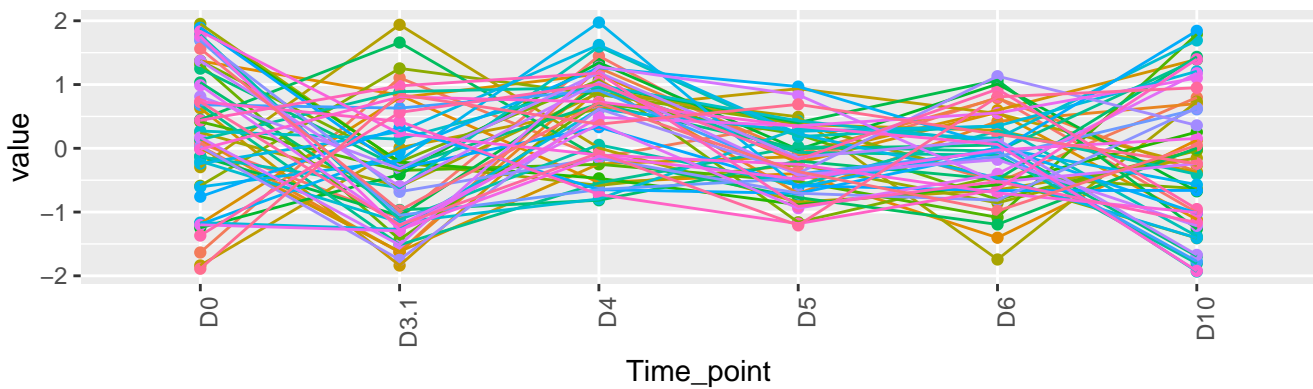
43 genes – KO-cluster-270-standardized



62 genes – WT-cluster-269-standardized

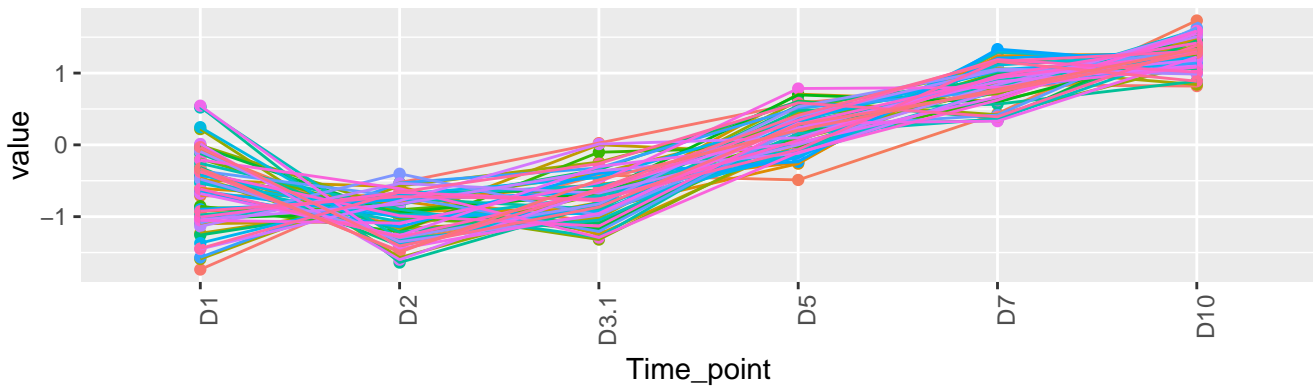


52 genes – KO-cluster-269-standardized

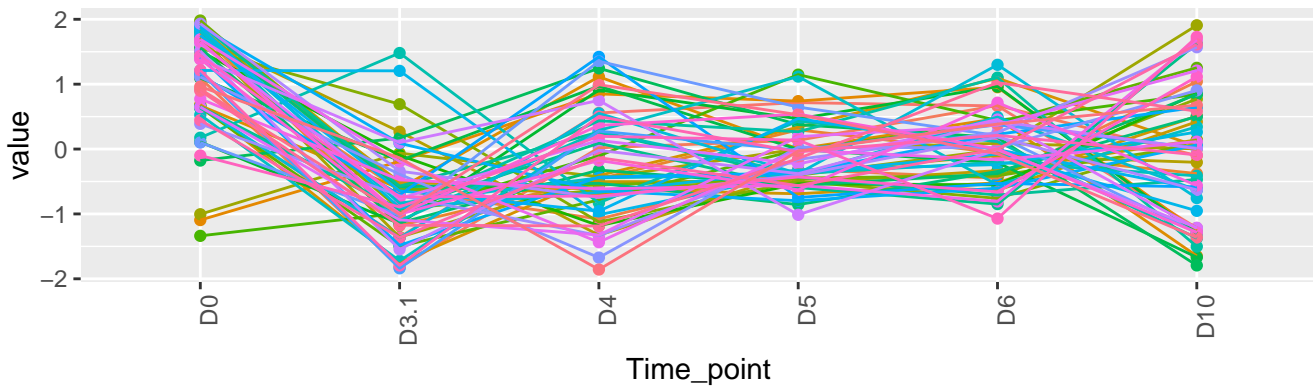




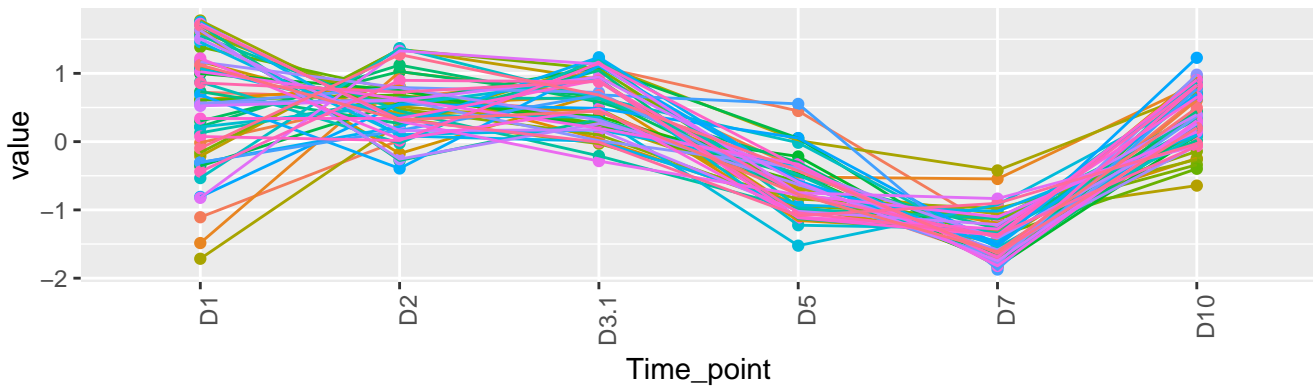
60 genes – WT-cluster-268-standardized



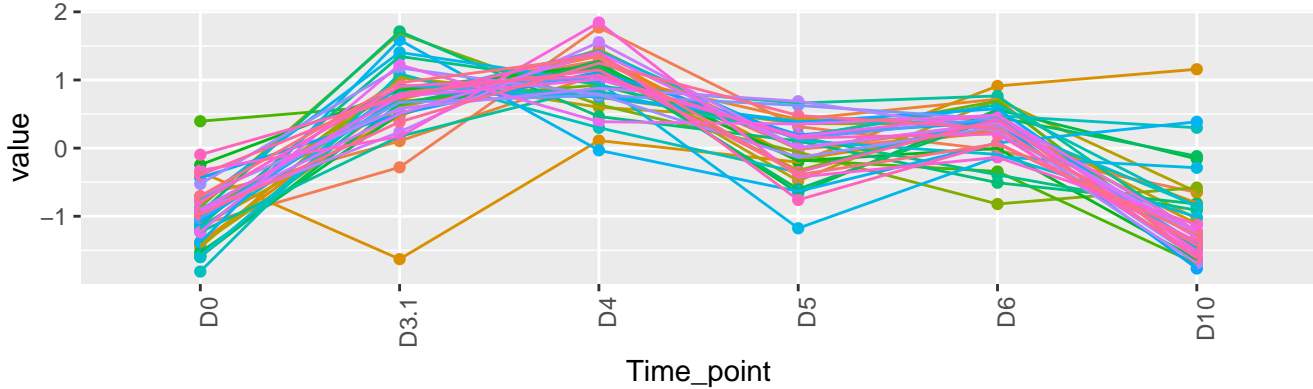
58 genes – KO-cluster-268-standardized



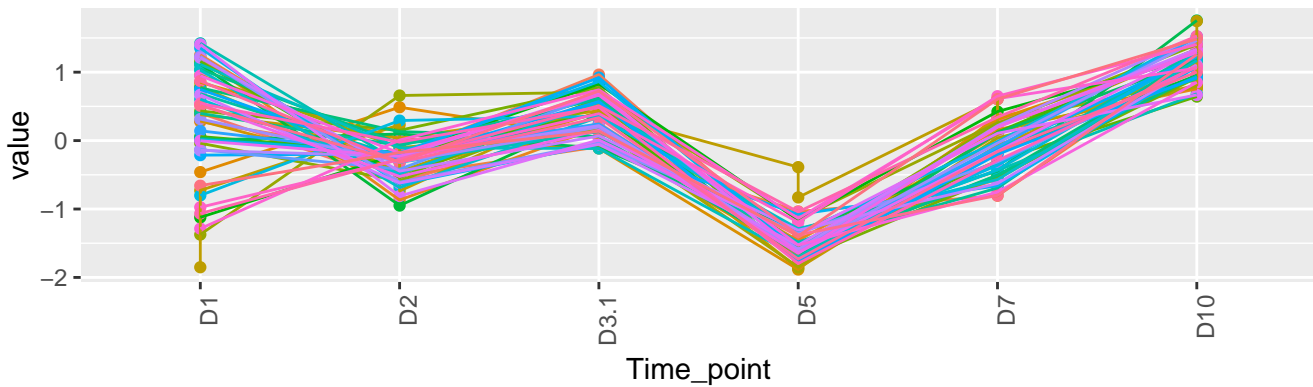
52 genes – WT-cluster-267-standardized



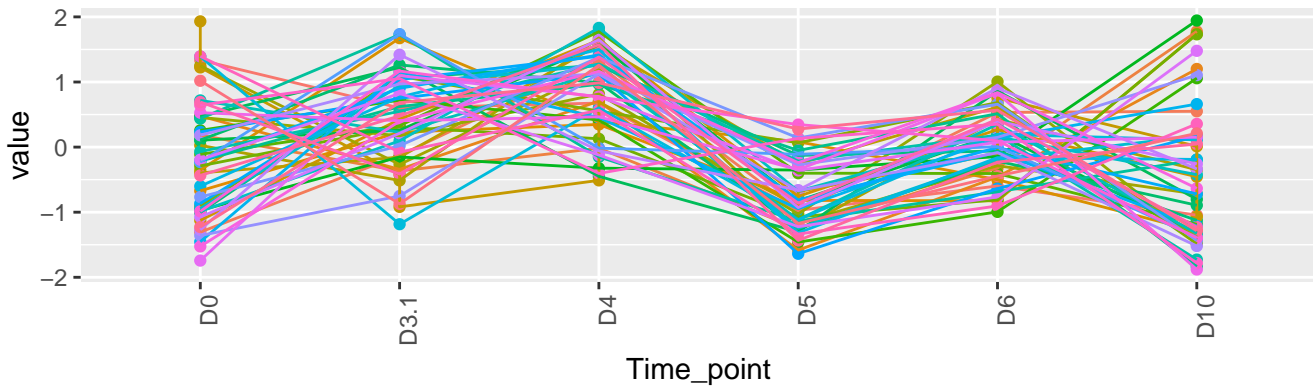
41 genes – KO-cluster-267-standardized



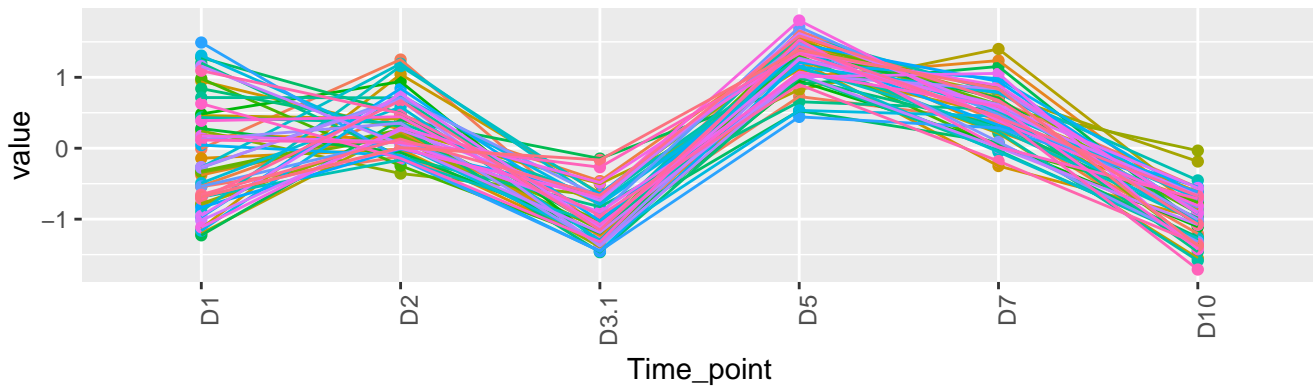
52 genes – WT-cluster-266-standardized



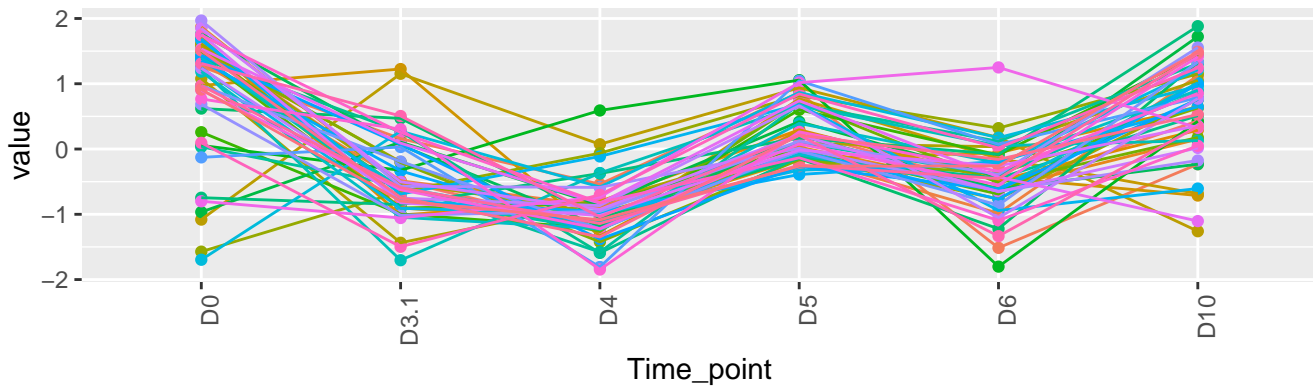
51 genes – KO-cluster-266-standardized



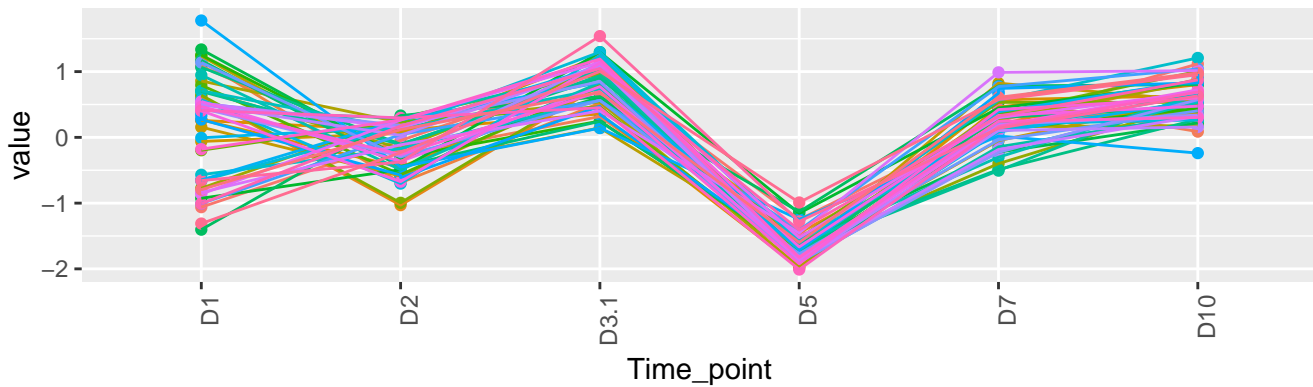
51 genes – WT-cluster-265-standardized



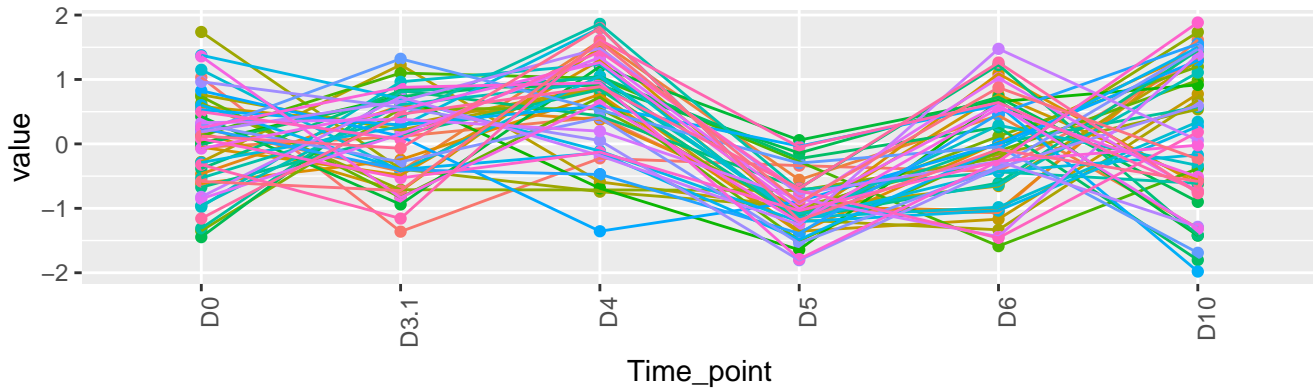
50 genes – KO-cluster-265-standardized



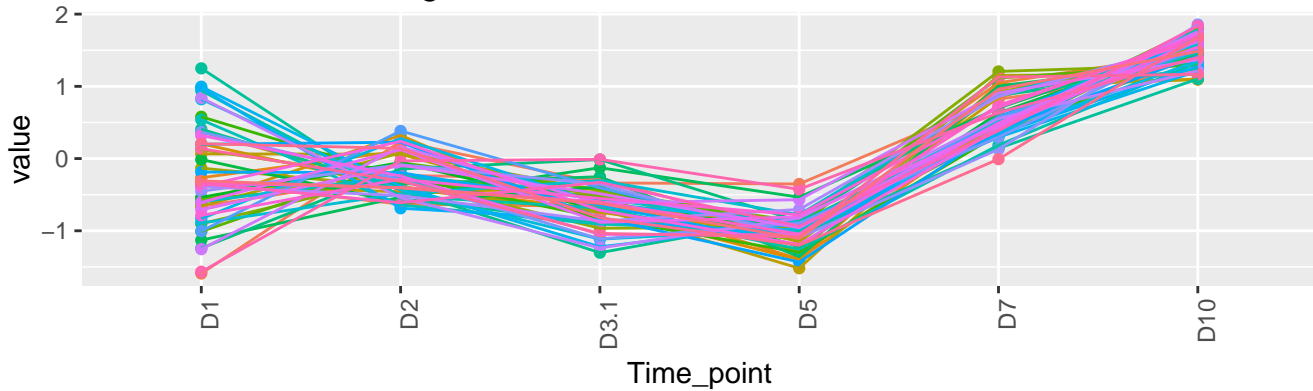
51 genes – WT-cluster-264-standardized



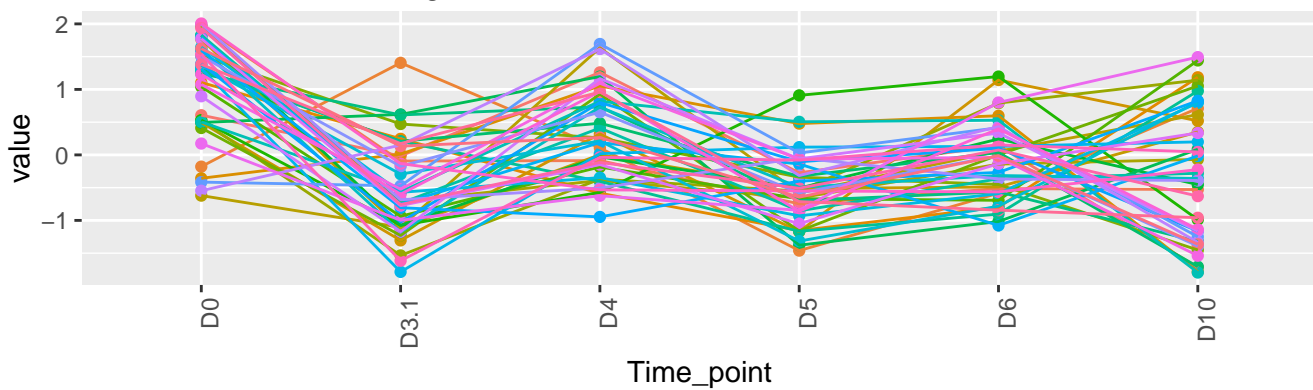
50 genes – KO-cluster-264-standardized



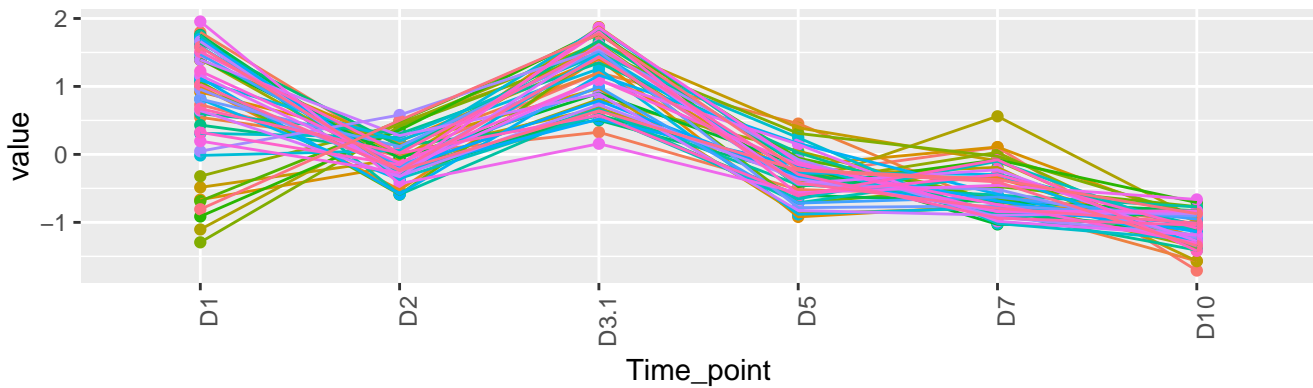
50 genes – WT-cluster-263-standardized



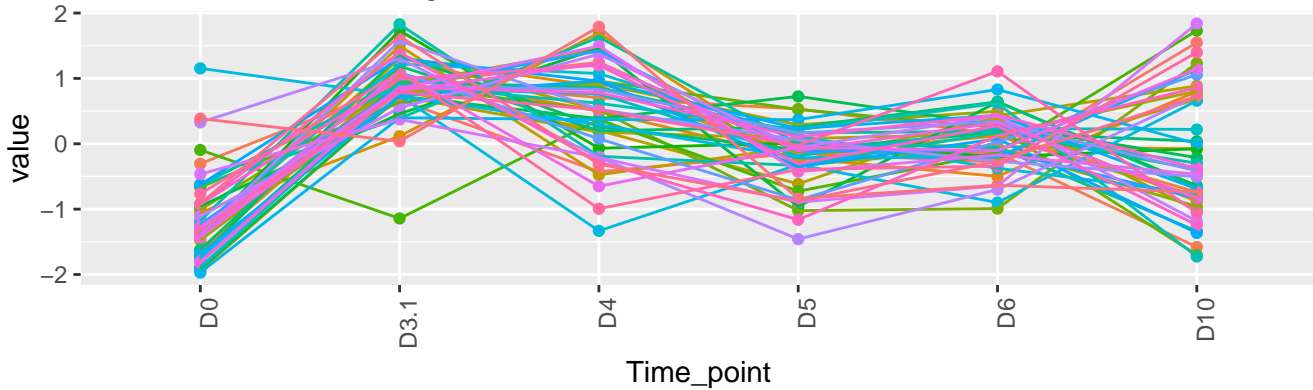
42 genes – KO-cluster-263-standardized



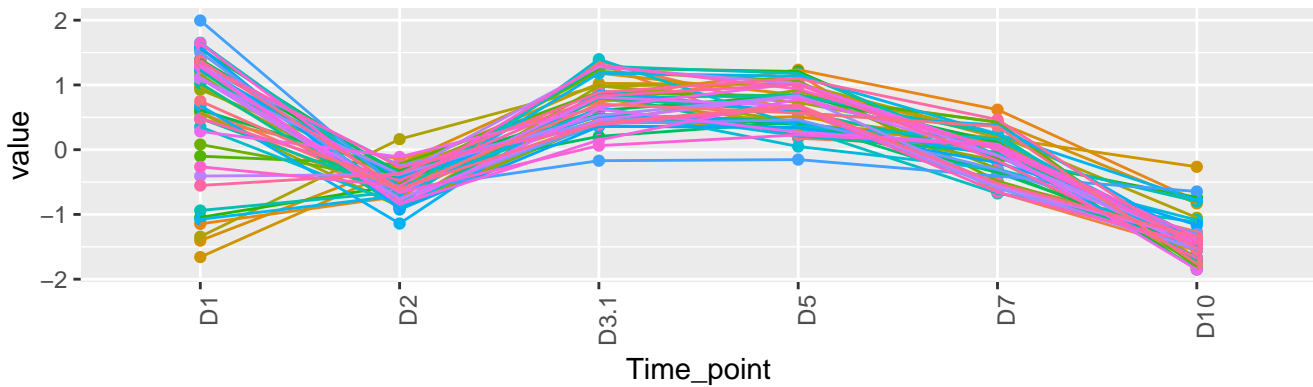
49 genes – WT-cluster-262-standardized



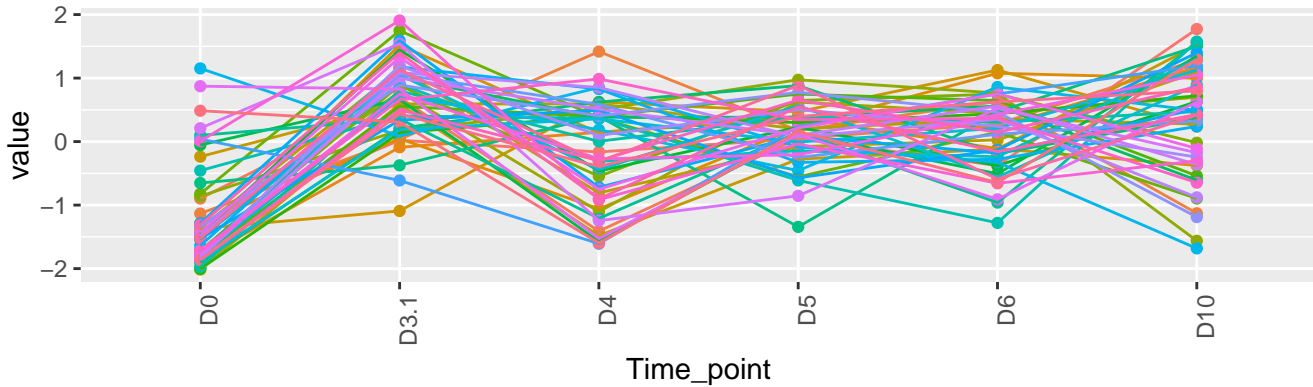
48 genes – KO-cluster-262-standardized



49 genes – WT-cluster-261-standardized

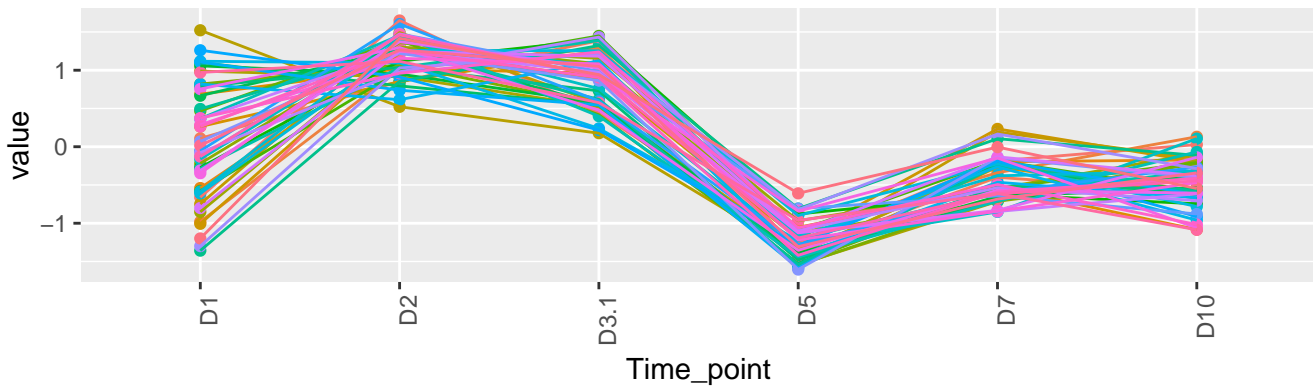


49 genes – KO-cluster-261-standardized

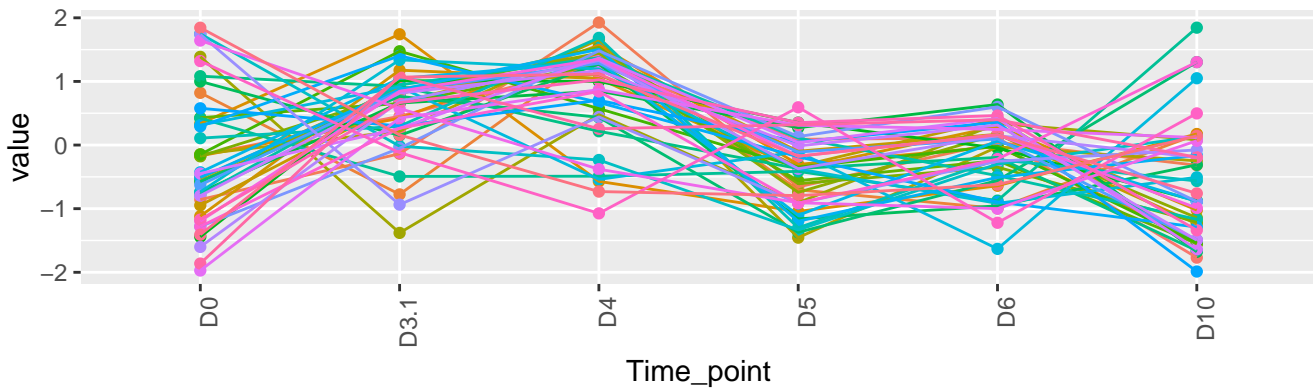




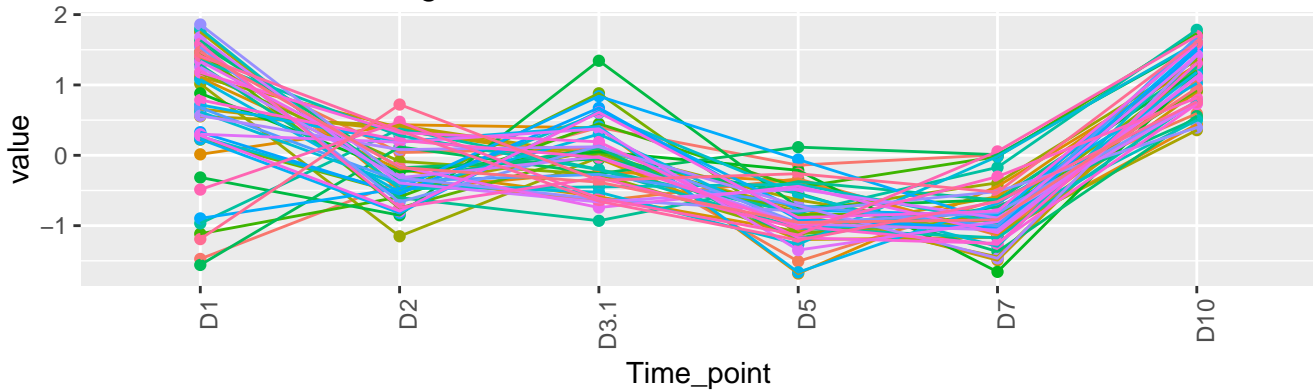
48 genes – WT-cluster-260-standardized



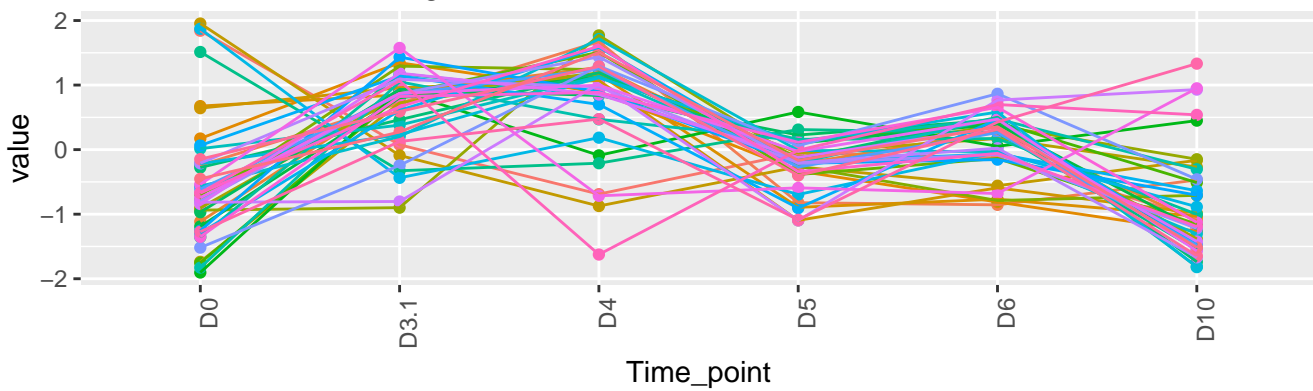
44 genes – KO-cluster-260-standardized



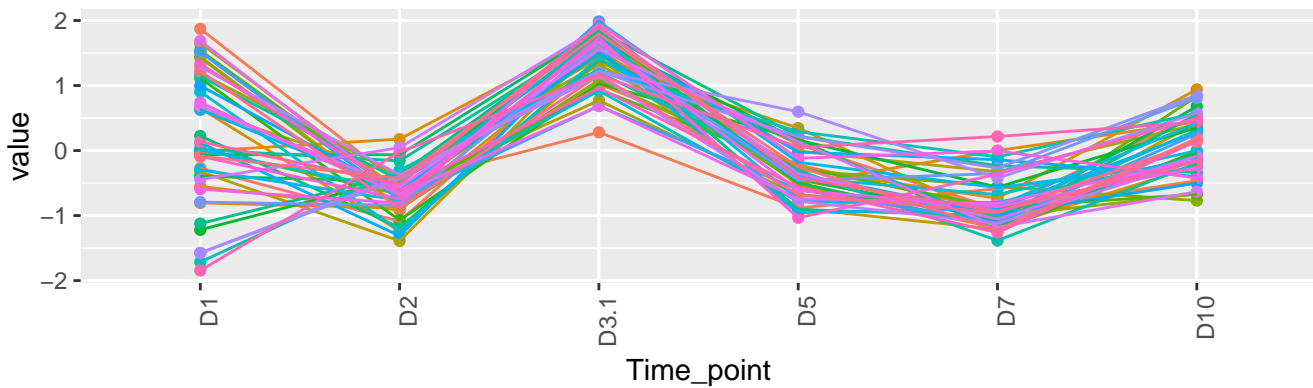
47 genes – WT-cluster-259-standardized



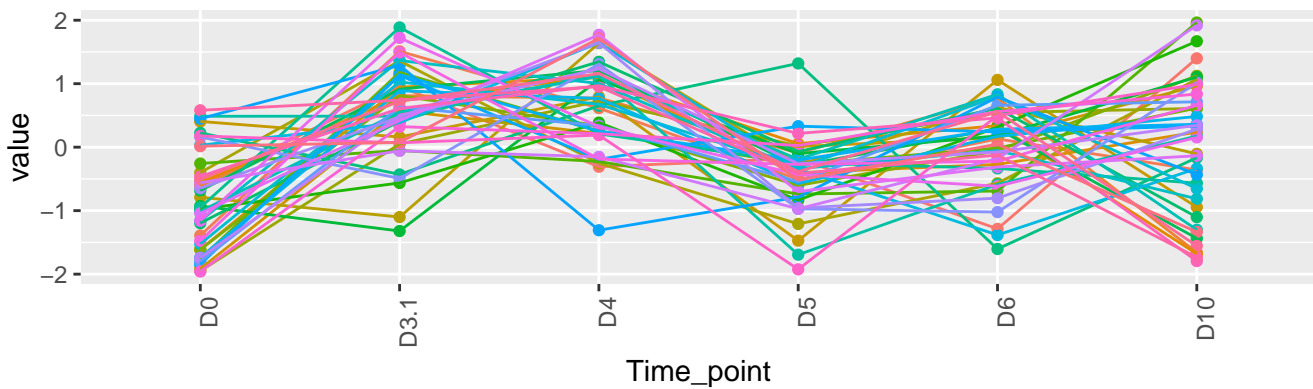
41 genes – KO-cluster-259-standardized



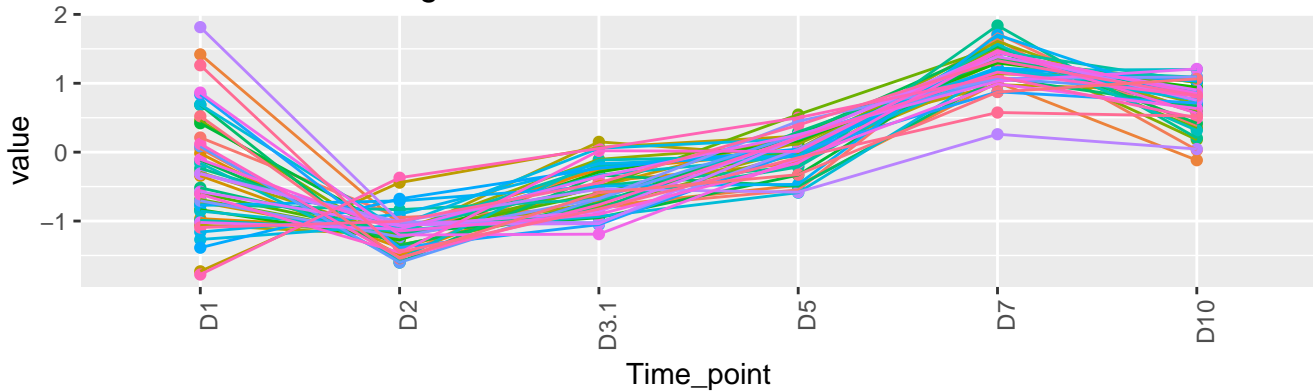
46 genes – WT-cluster-258-standardized



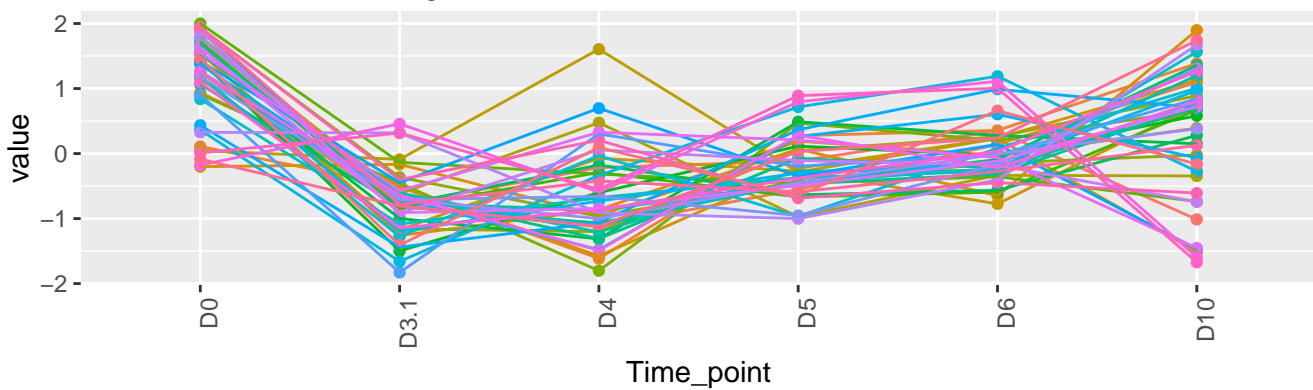
42 genes – KO-cluster-258-standardized



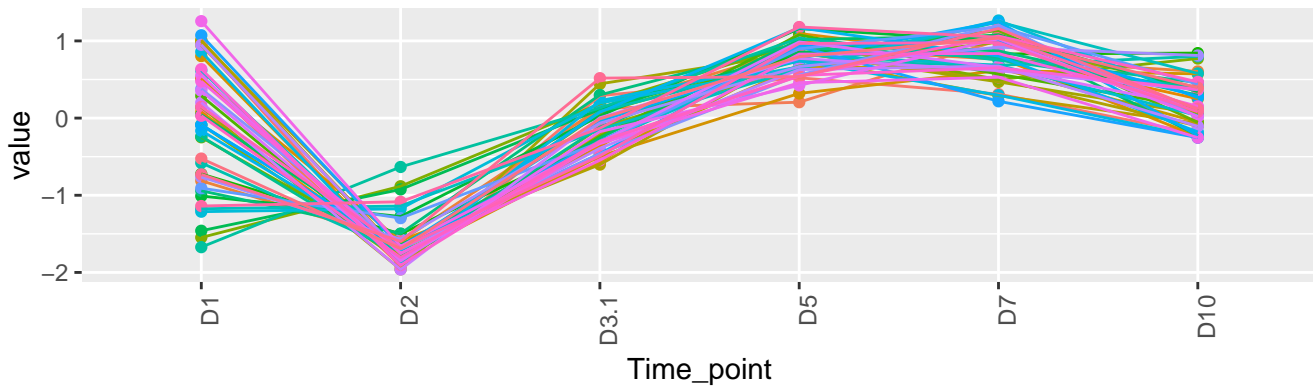
45 genes – WT-cluster-257-standardized



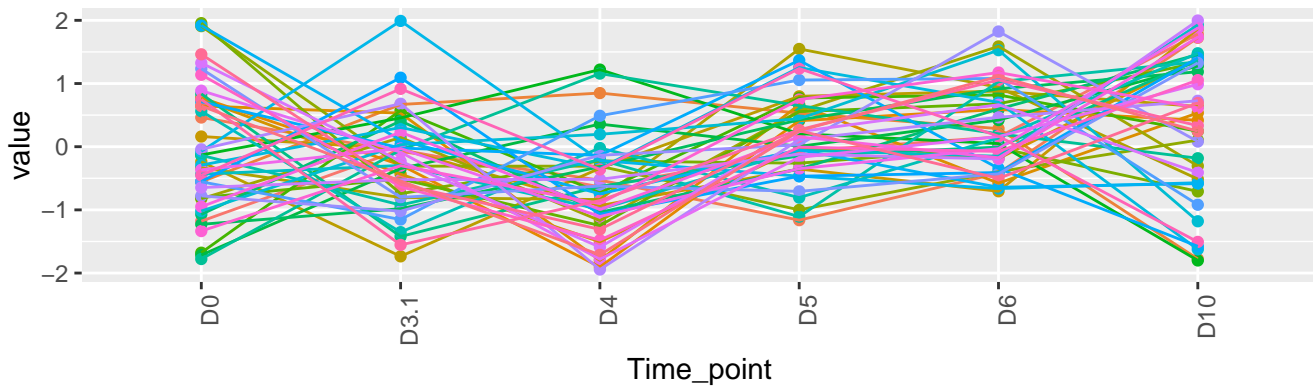
44 genes – KO-cluster-257-standardized



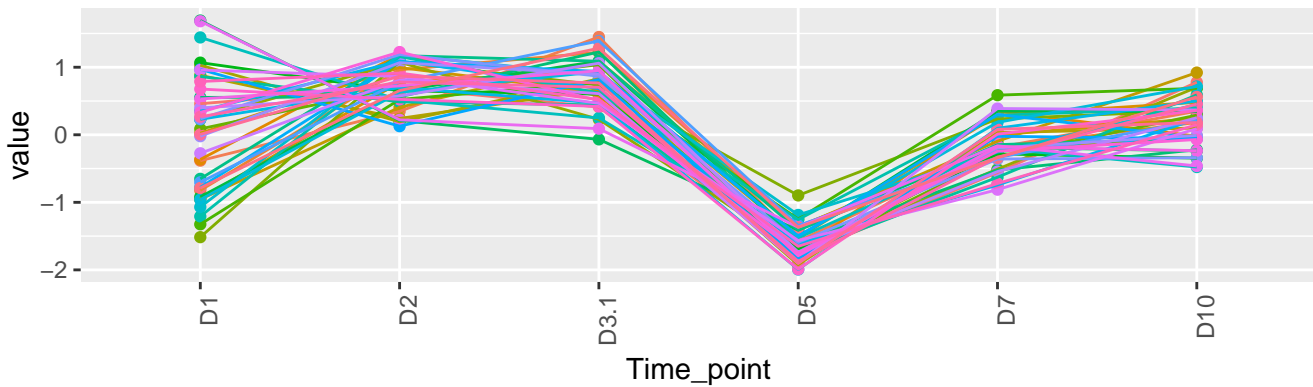
45 genes – WT-cluster-256-standardized



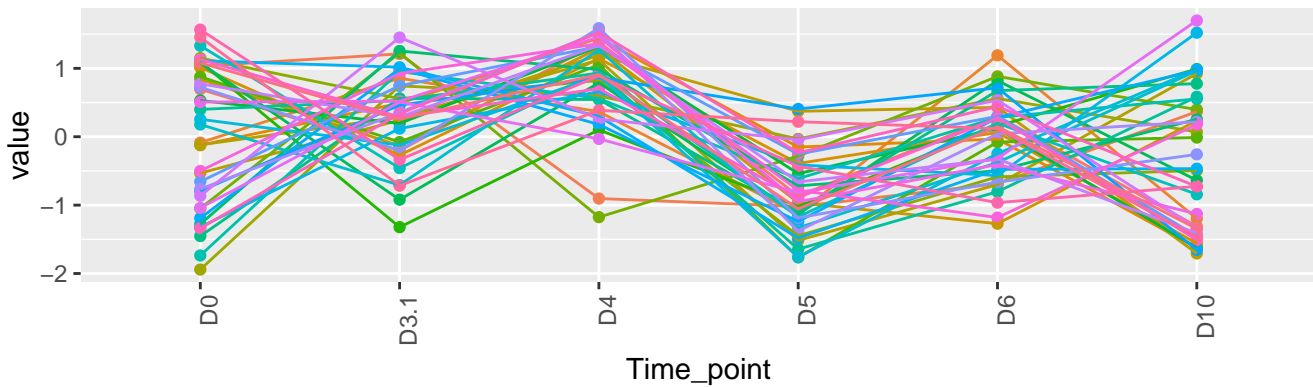
44 genes – KO-cluster-256-standardized



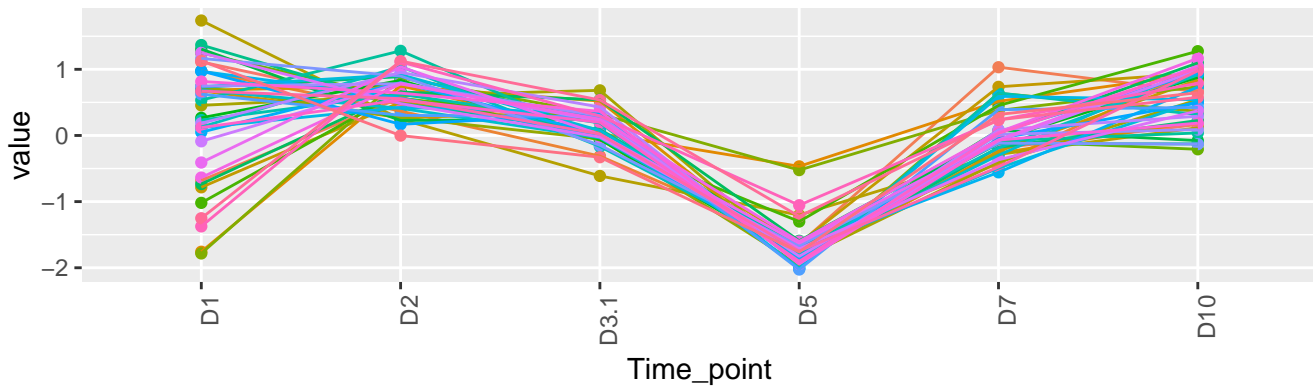
41 genes – WT-cluster-255-standardized



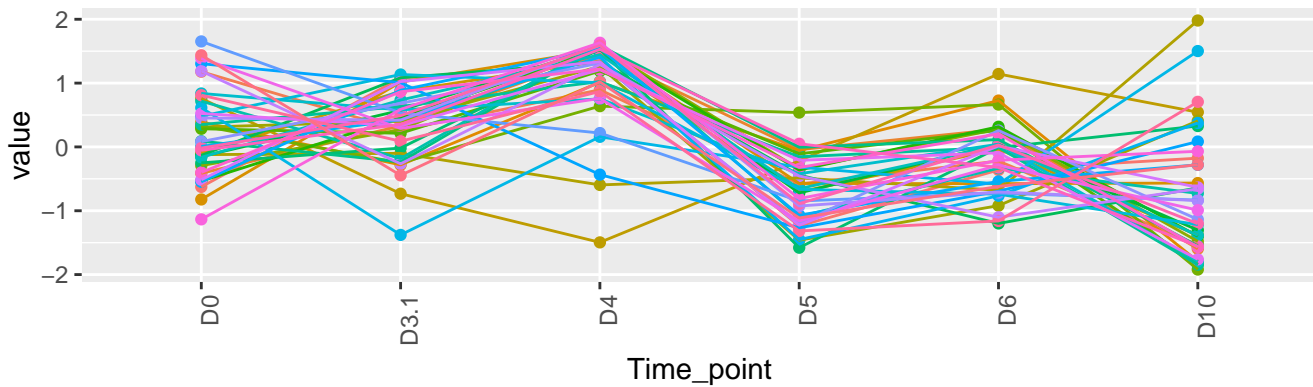
39 genes – KO-cluster-255-standardized



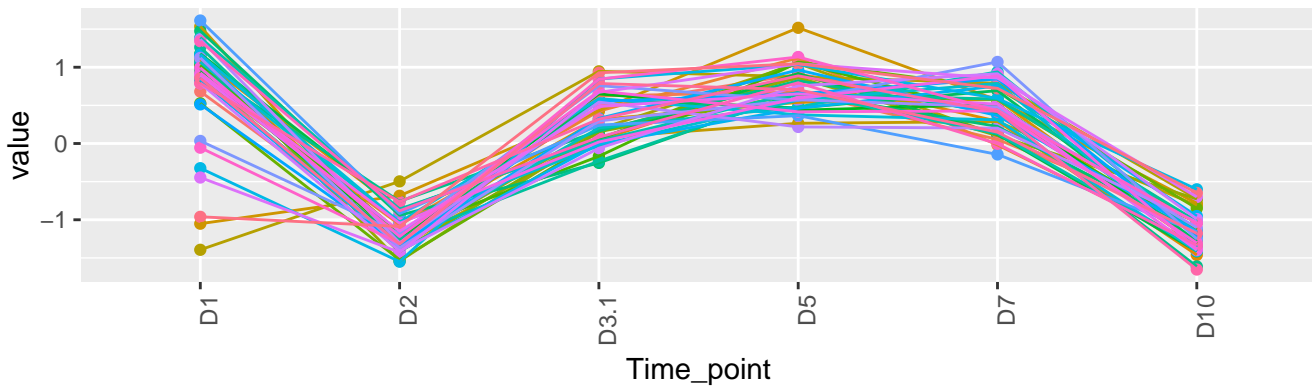
41 genes – WT-cluster-254-standardized



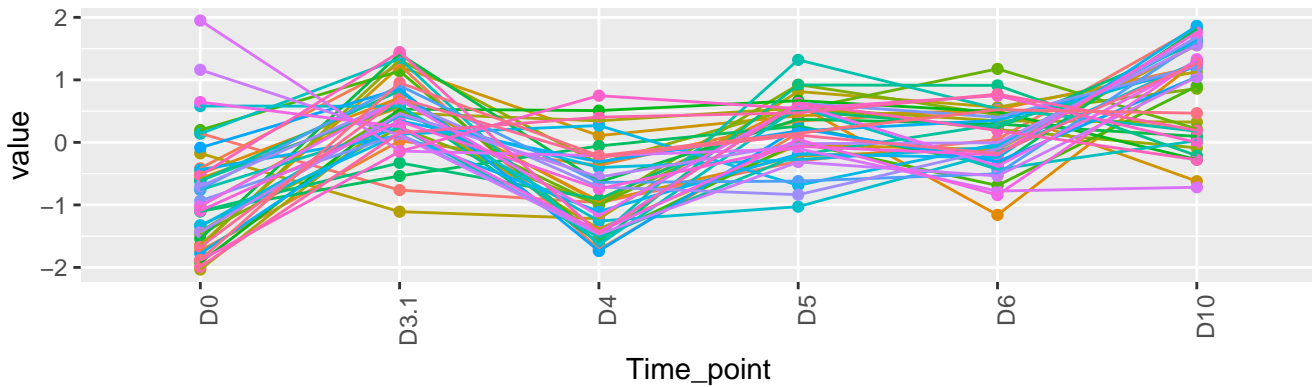
39 genes – KO-cluster-254-standardized



41 genes – WT-cluster-253-standardized

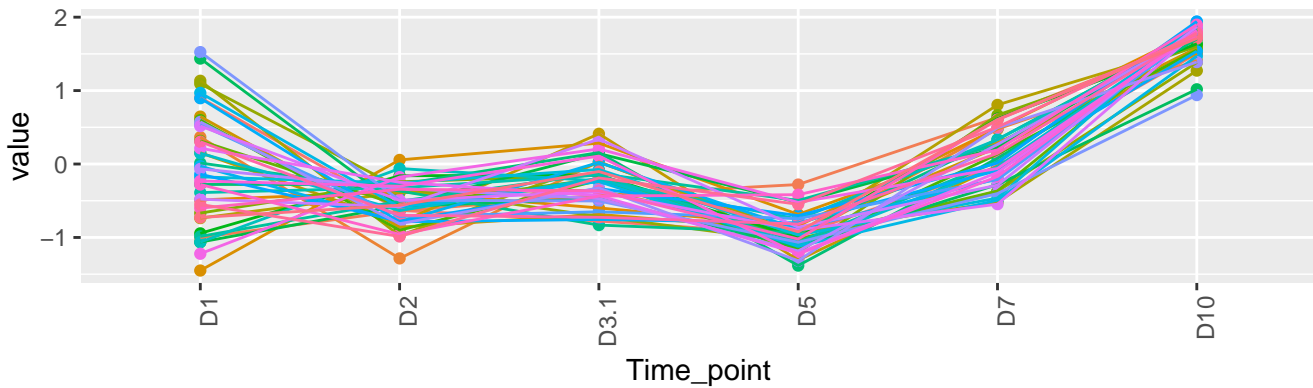


41 genes – KO-cluster-253-standardized

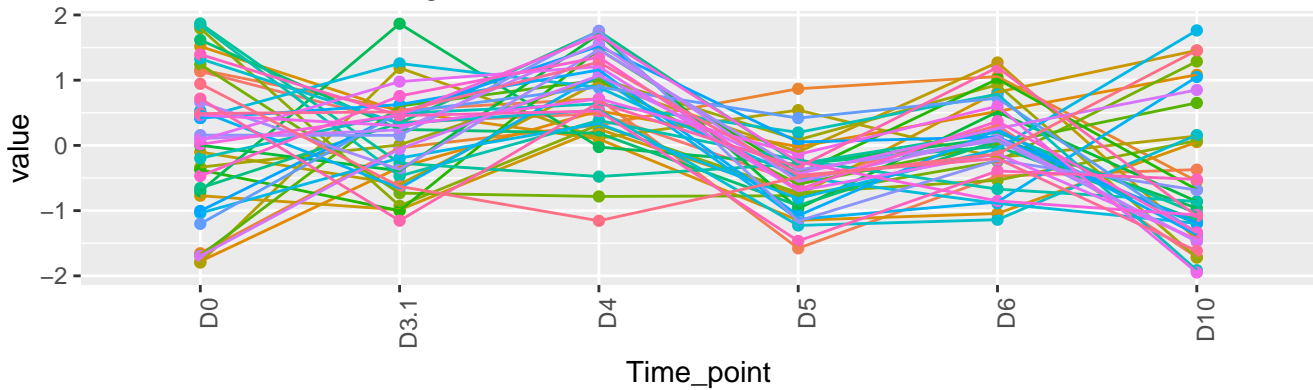




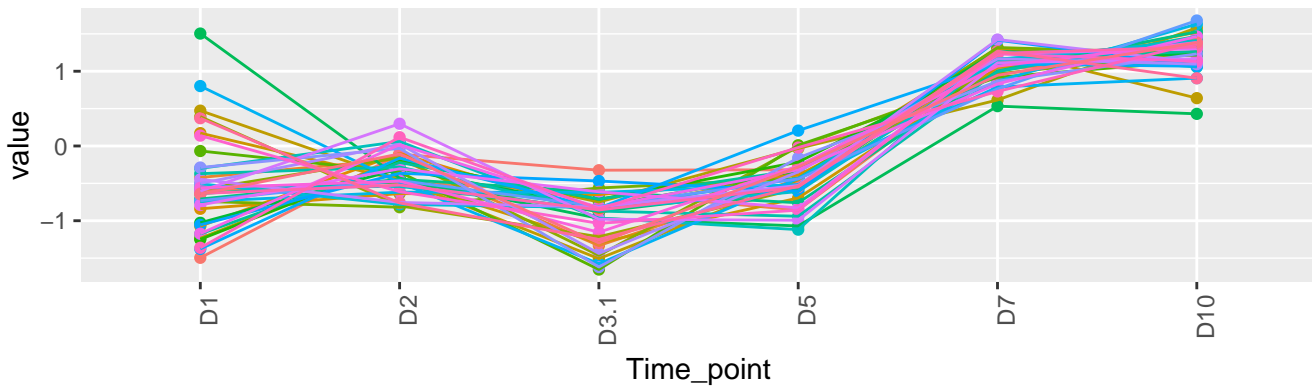
41 genes – WT-cluster-252-standardized



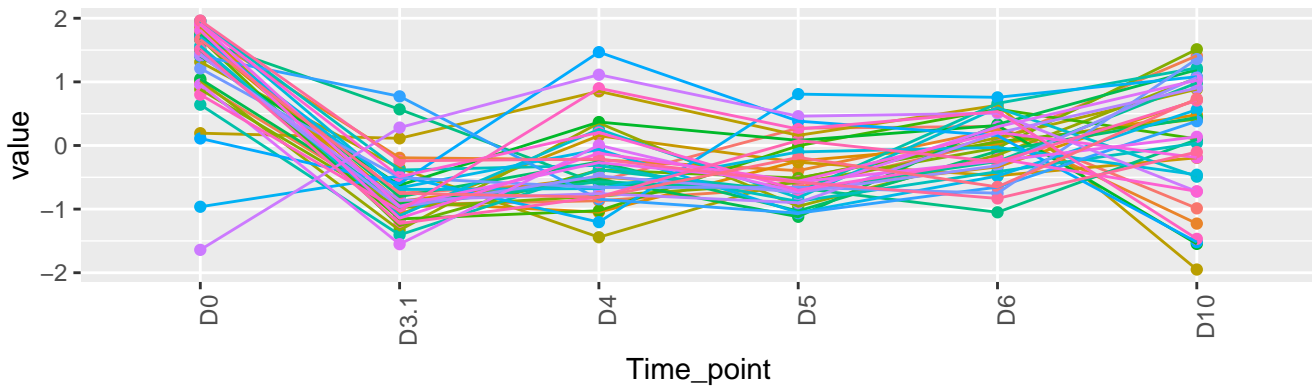
39 genes – KO-cluster-252-standardized



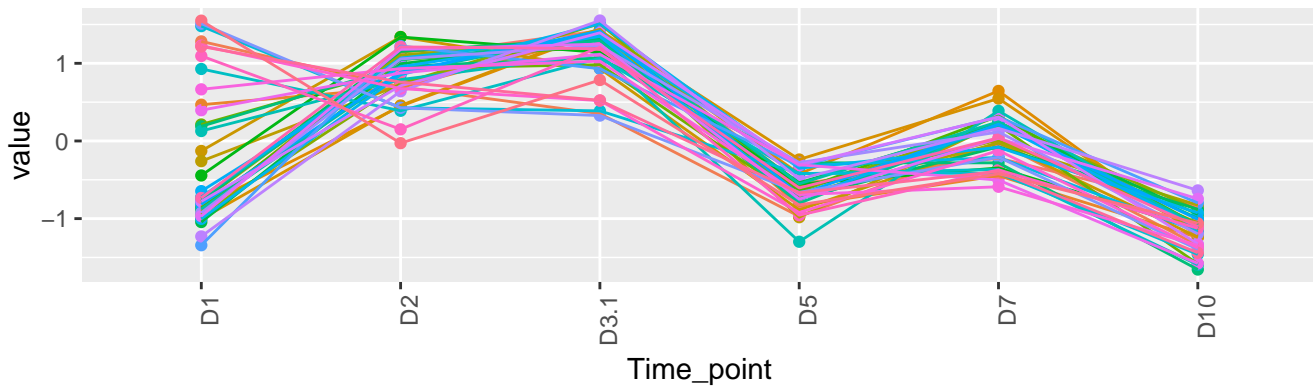
39 genes – WT-cluster-251-standardized



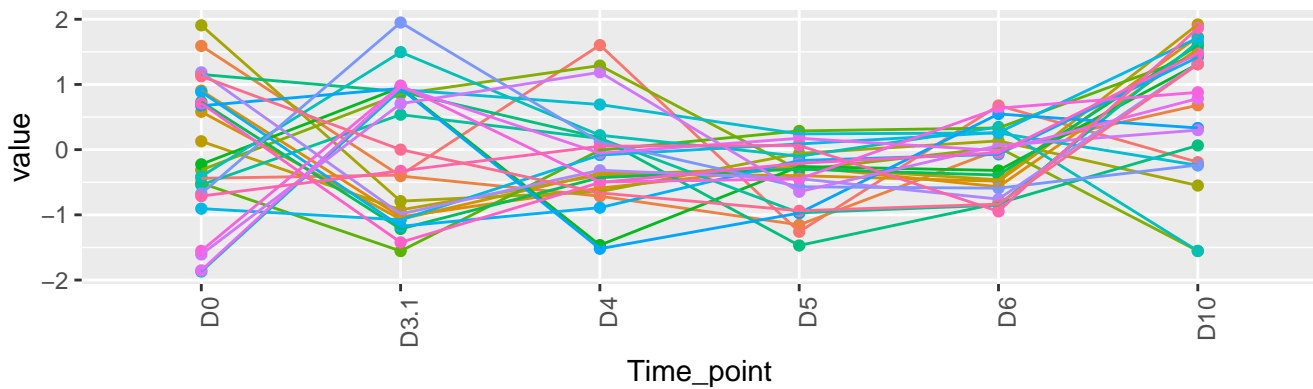
37 genes – KO-cluster-251-standardized



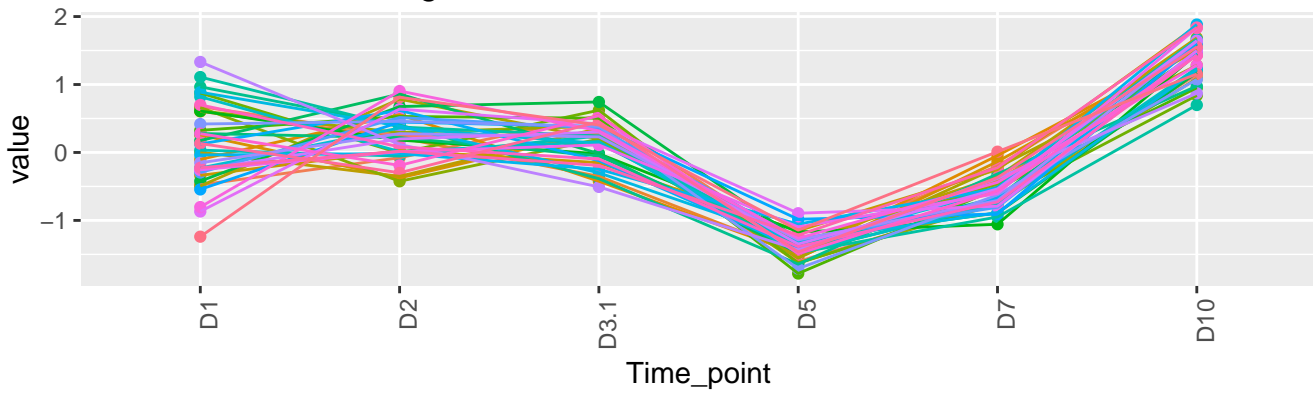
38 genes – WT-cluster-250-standardized



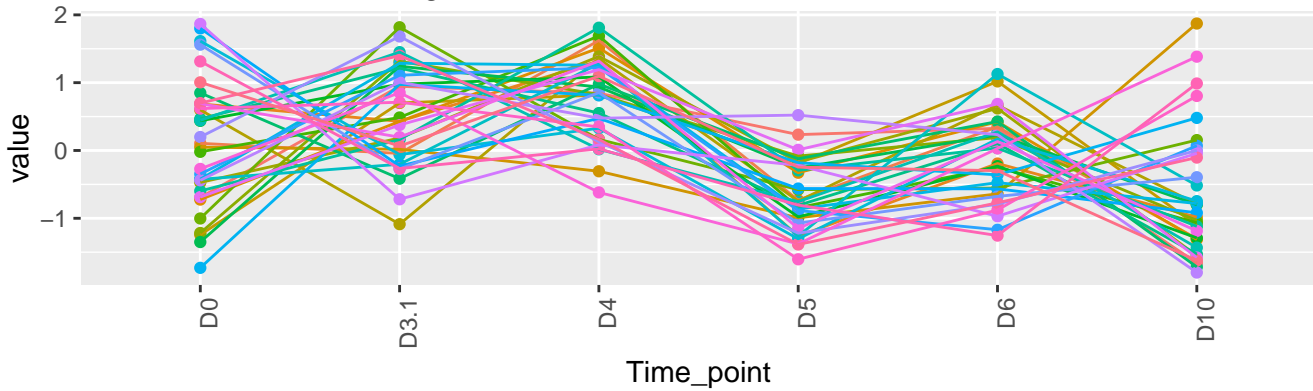
25 genes – KO-cluster-250-standardized



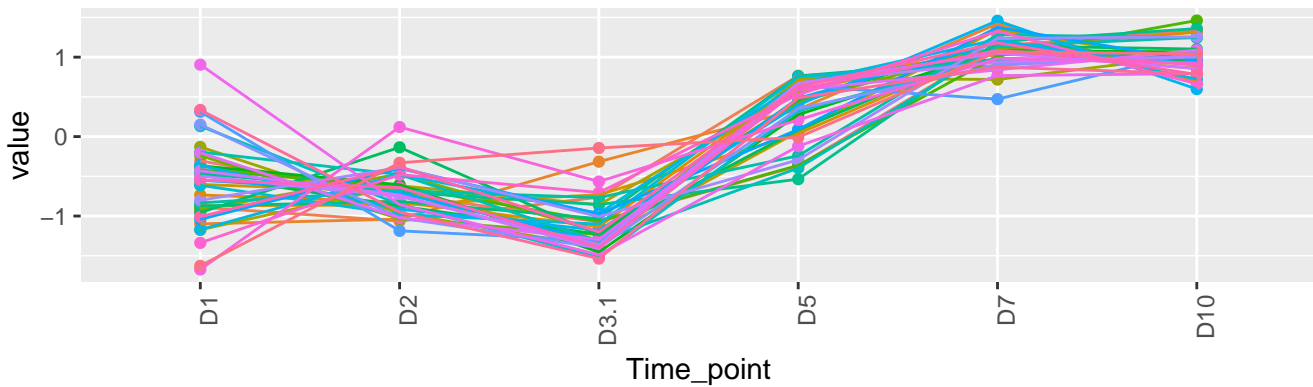
38 genes – WT-cluster-249-standardized



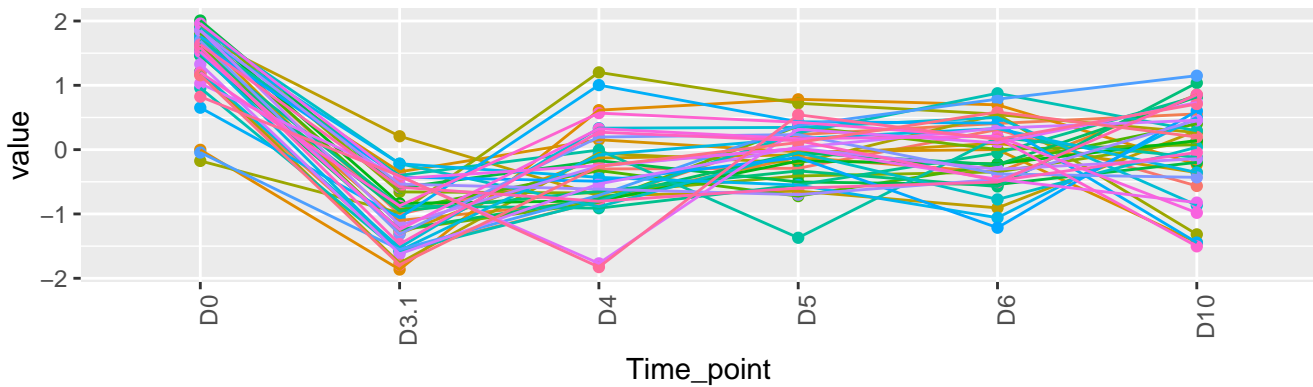
34 genes – KO-cluster-249-standardized



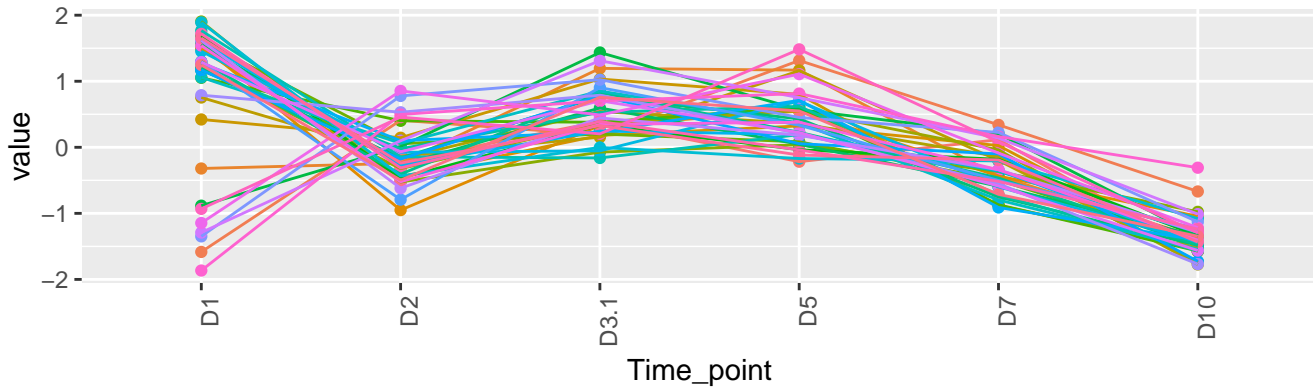
38 genes – WT-cluster-248-standardized



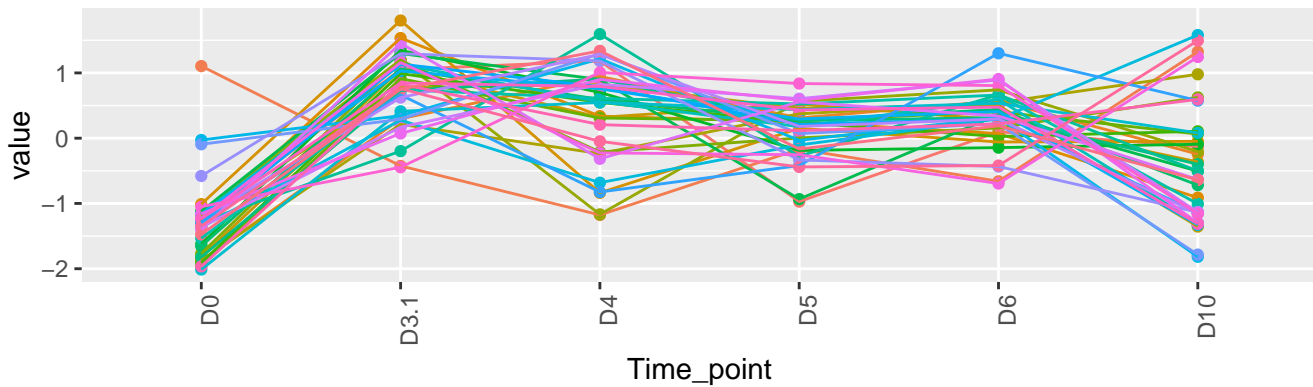
38 genes – KO-cluster-248-standardized



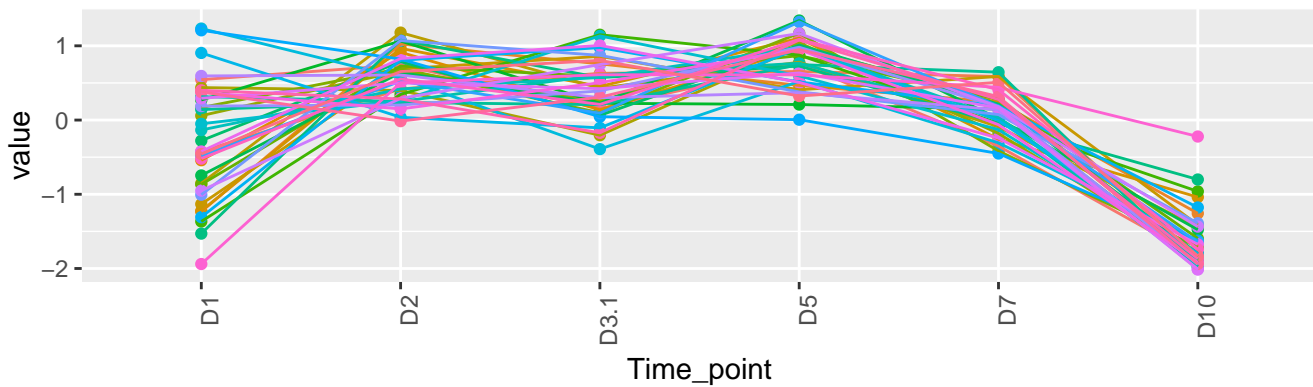
38 genes – WT-cluster-247-standardized



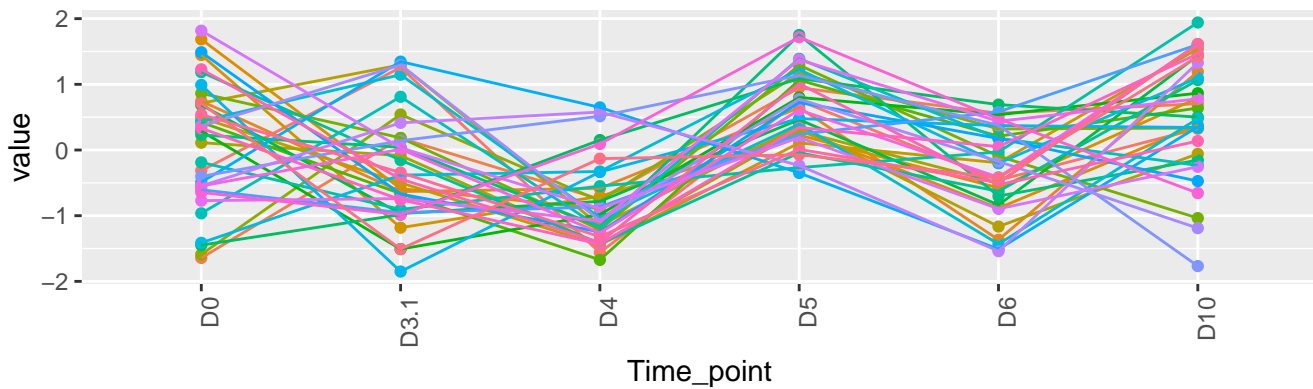
37 genes – KO-cluster-247-standardized



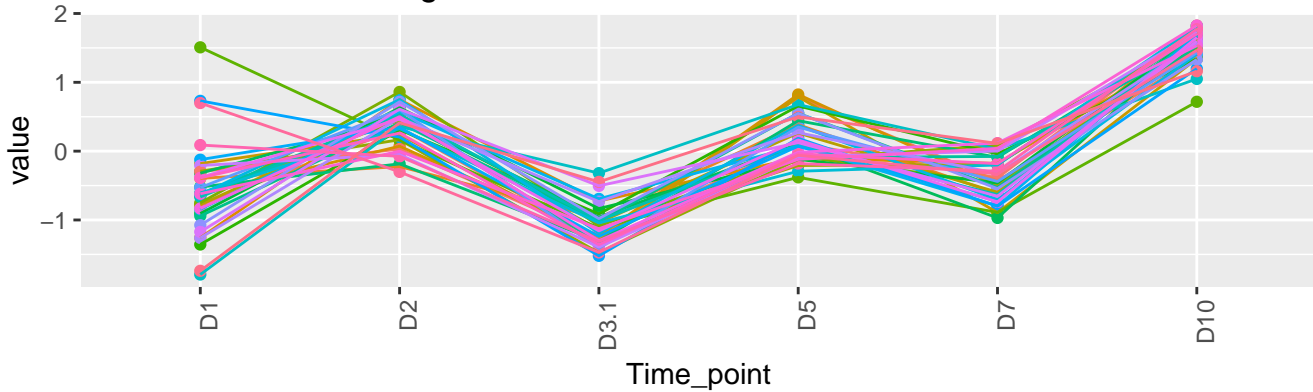
37 genes – WT-cluster-246-standardized



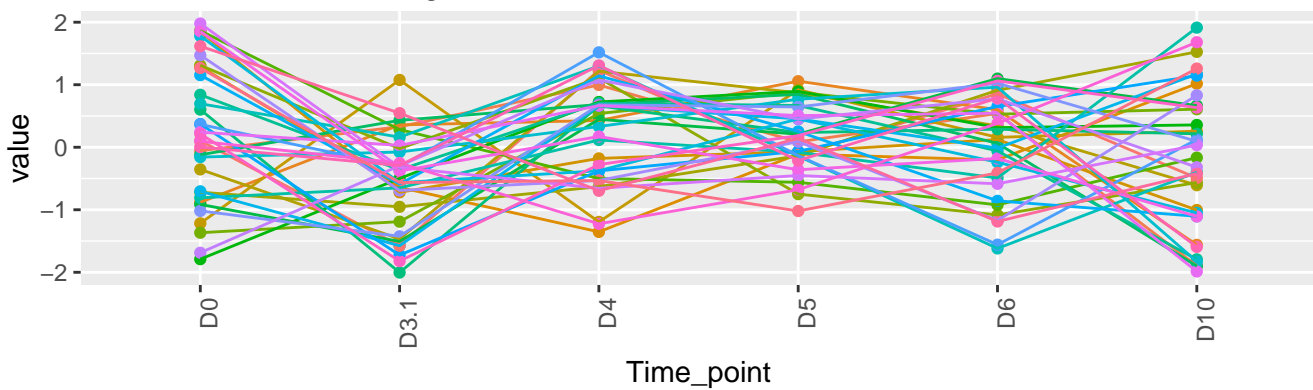
35 genes – KO-cluster-246-standardized



36 genes – WT-cluster-245-standardized

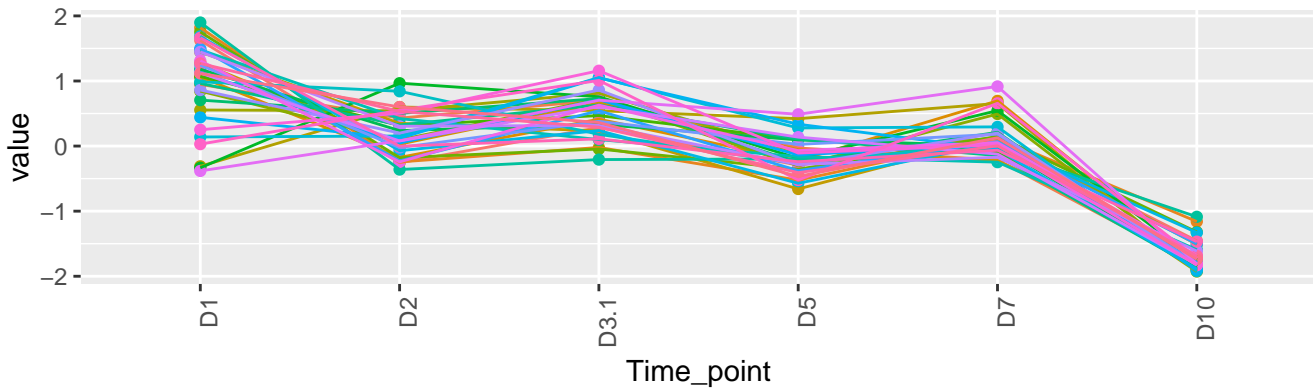


35 genes – KO-cluster-245-standardized

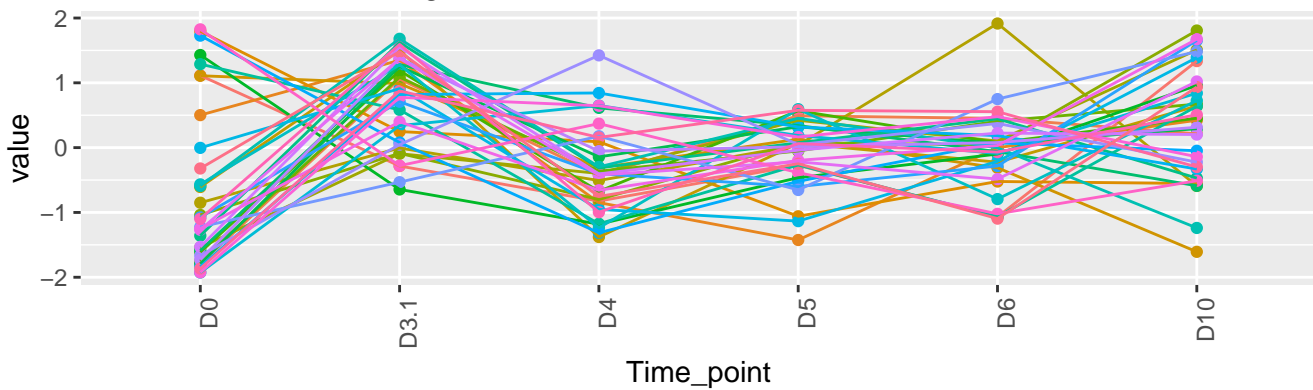




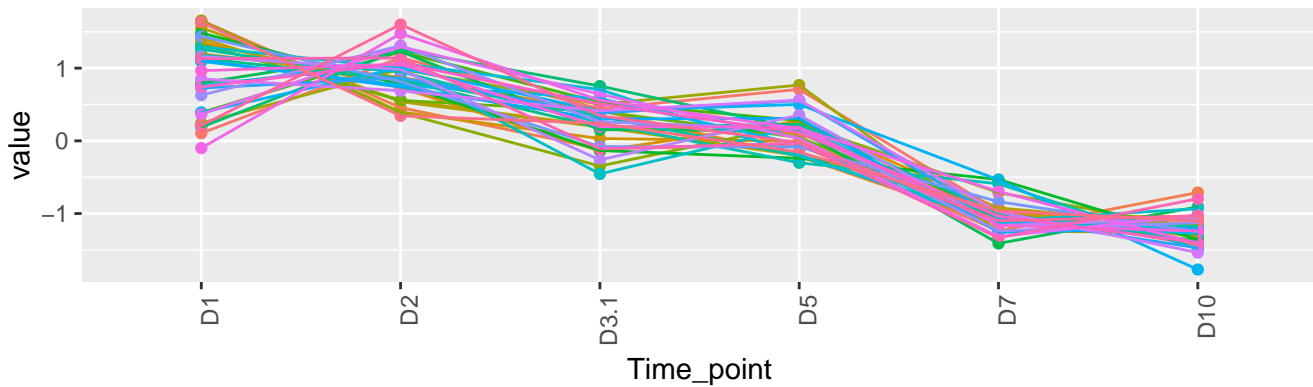
34 genes – WT-cluster-244-standardized



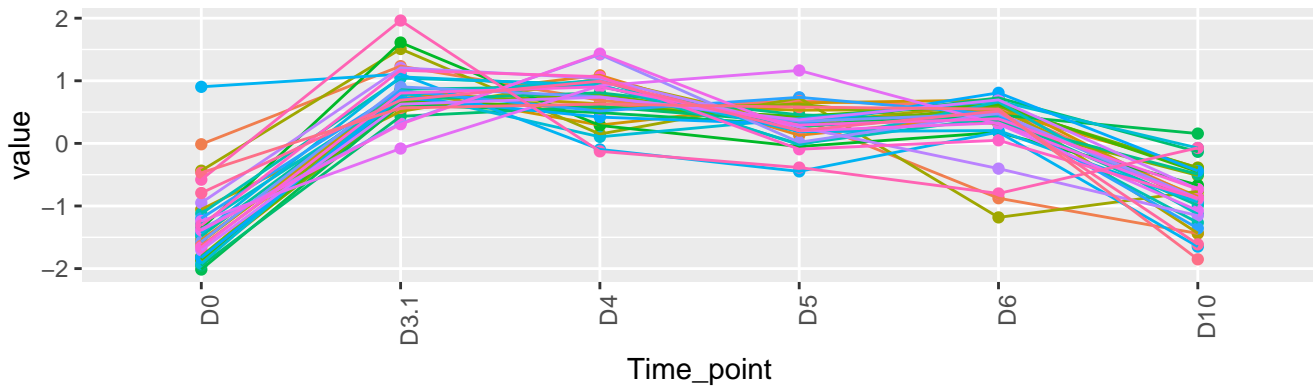
34 genes – KO-cluster-244-standardized



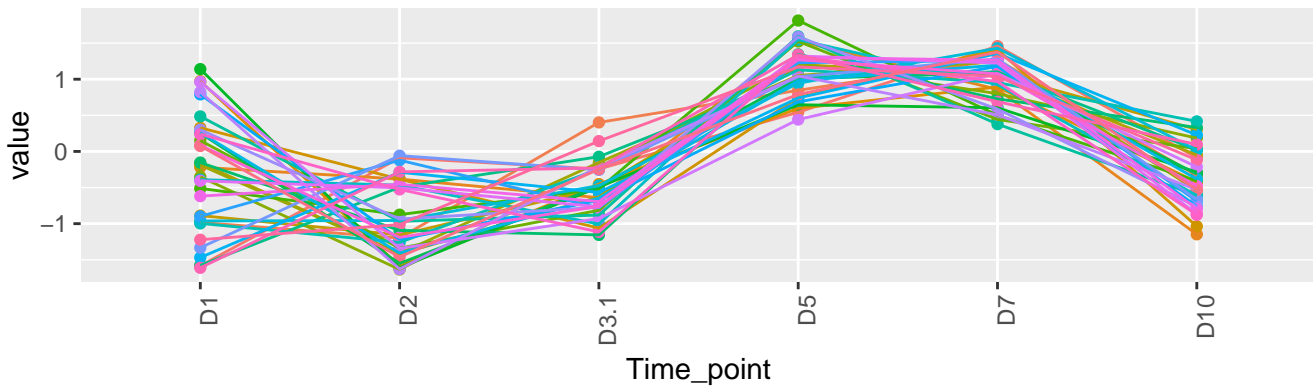
34 genes – WT-cluster-243-standardized



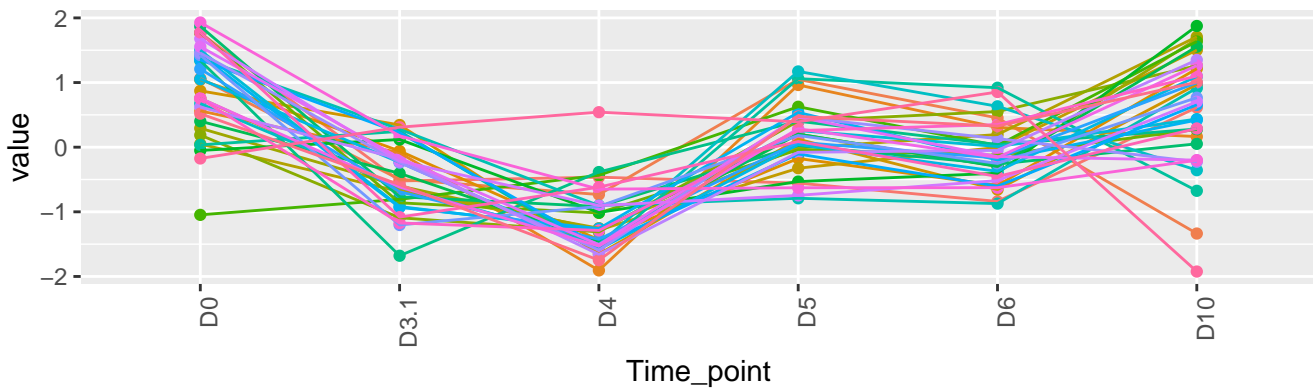
34 genes – KO-cluster-243-standardized



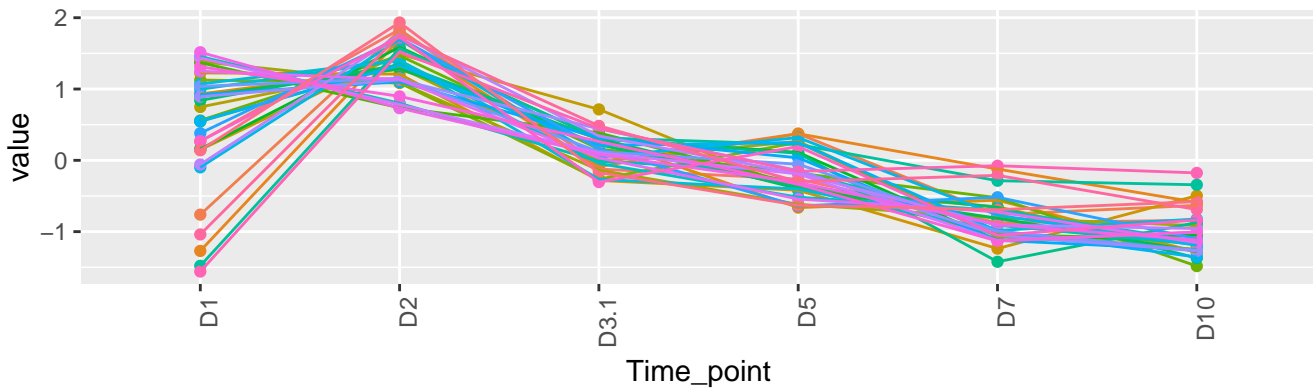
34 genes – WT-cluster-242-standardized



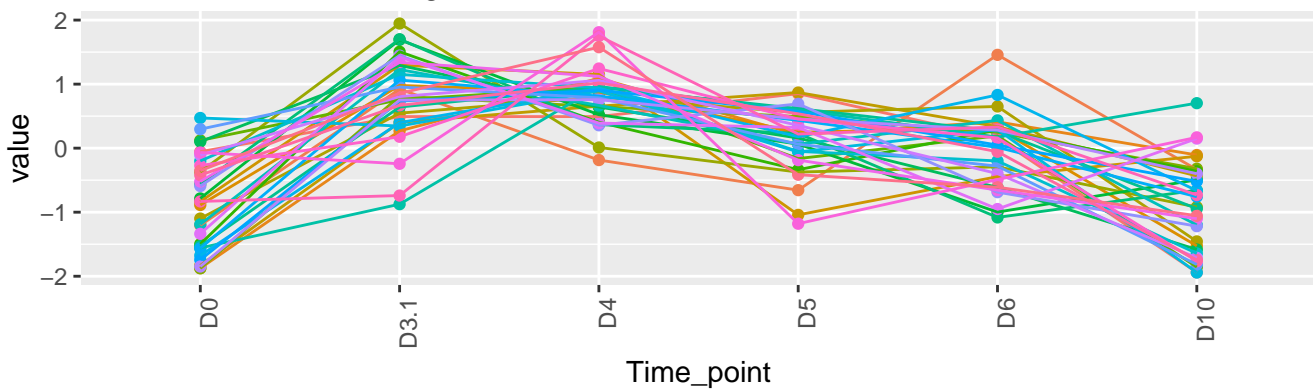
34 genes – KO-cluster-242-standardized



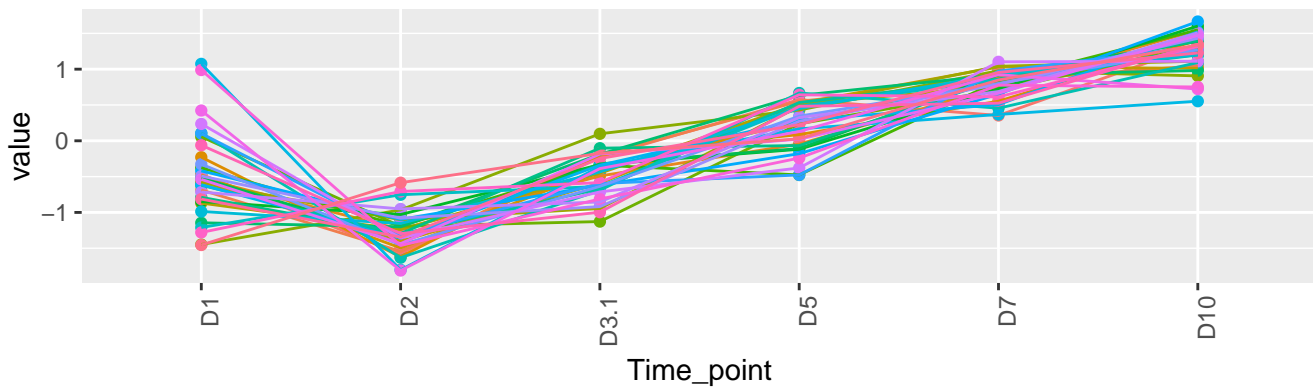
34 genes – WT-cluster-241-standardized



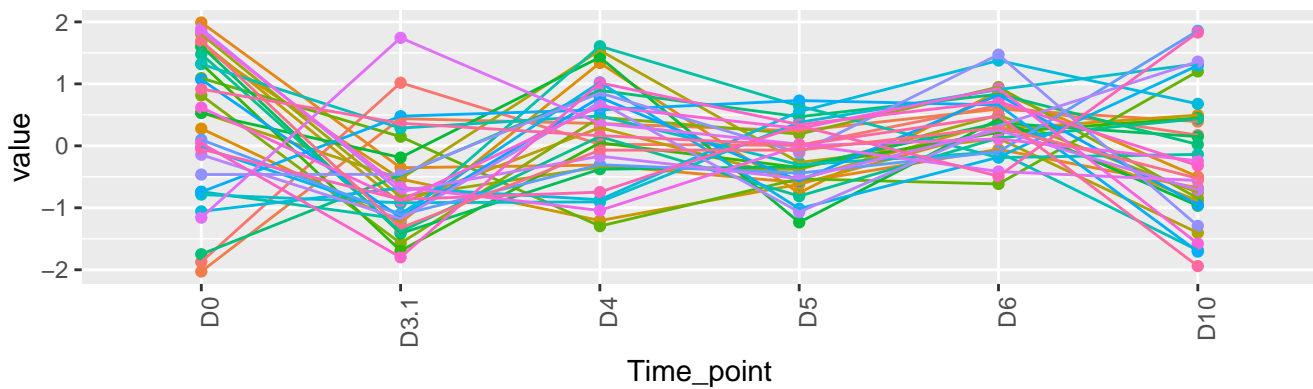
33 genes – KO-cluster-241-standardized



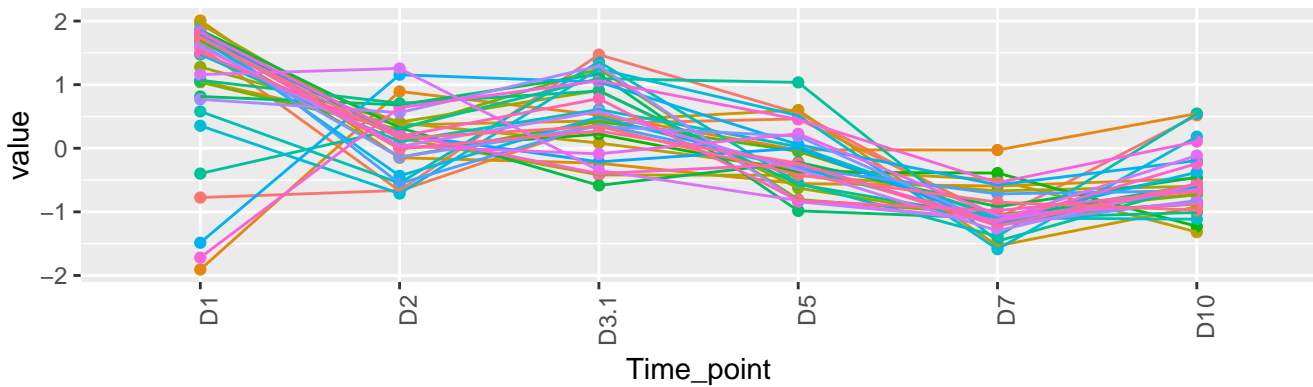
34 genes – WT-cluster-240-standardized



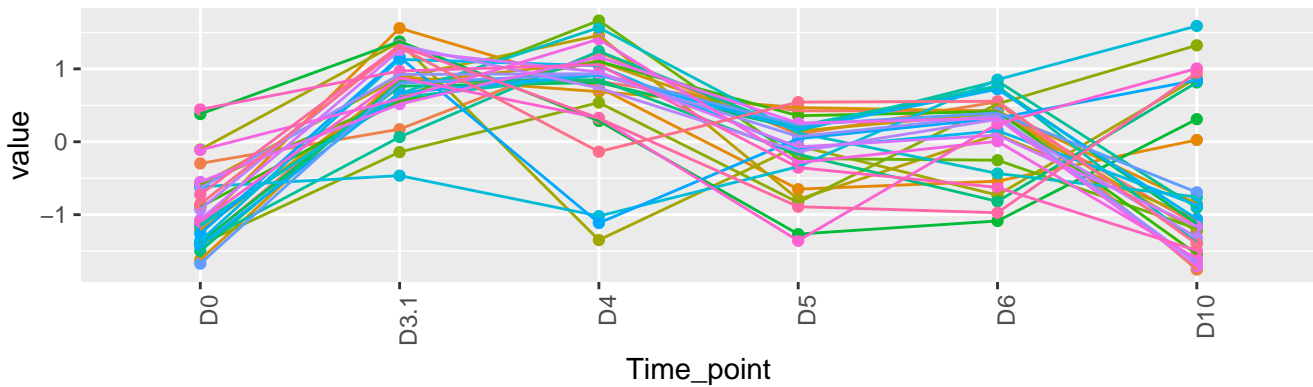
33 genes – KO-cluster-240-standardized



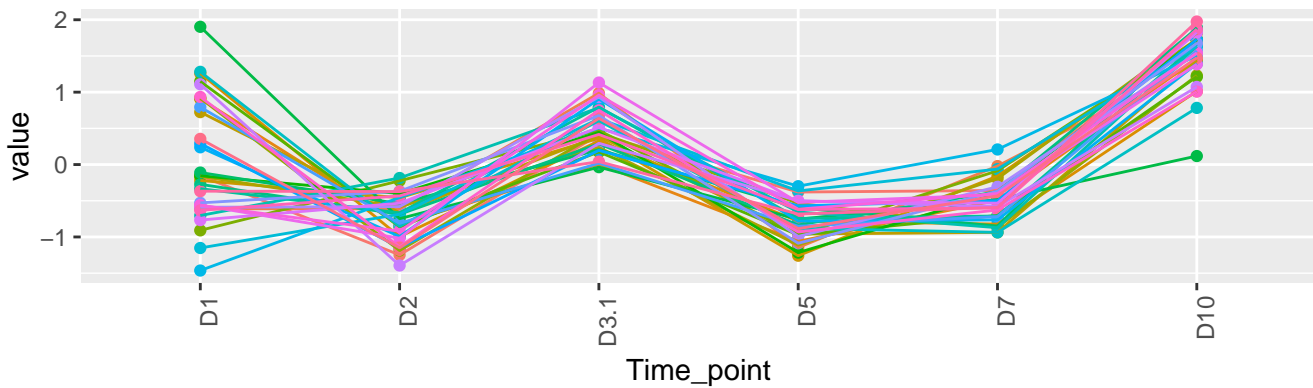
32 genes – WT-cluster-239-standardized



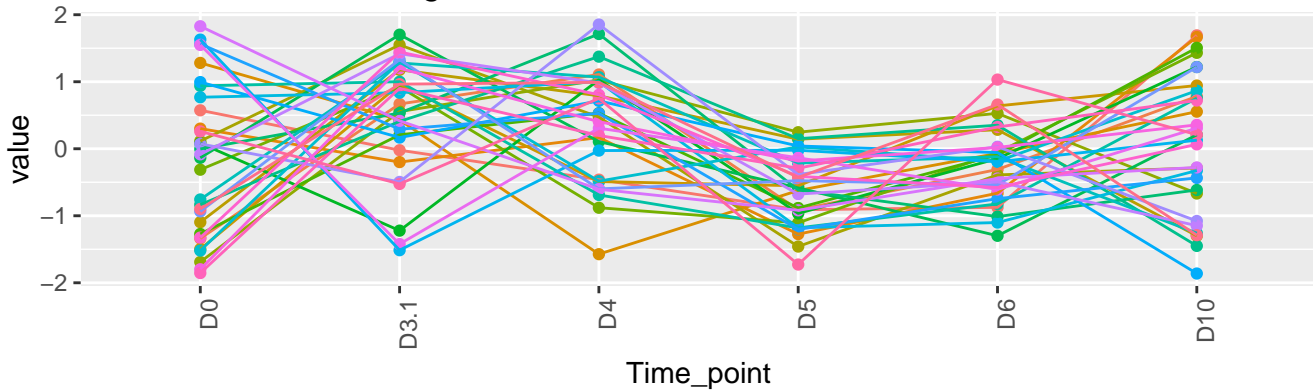
30 genes – KO-cluster-239-standardized



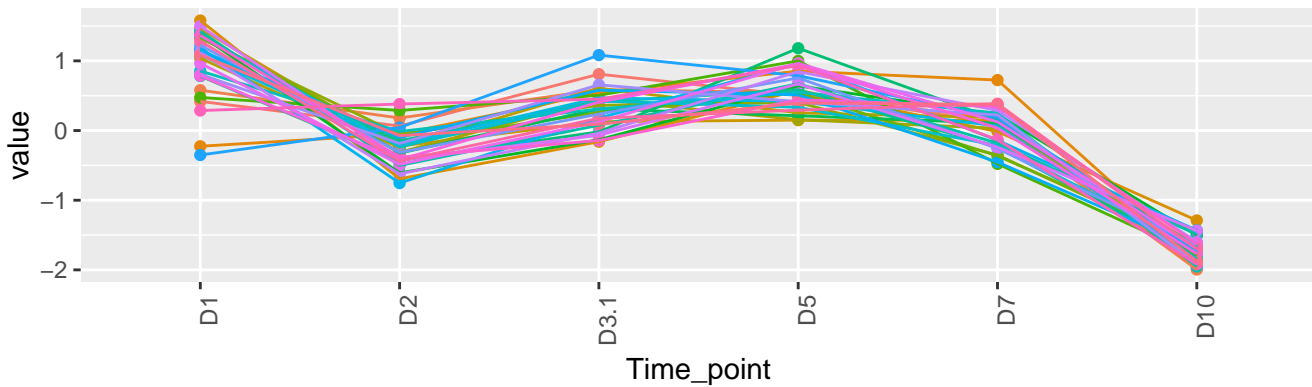
32 genes – WT-cluster-238-standardized



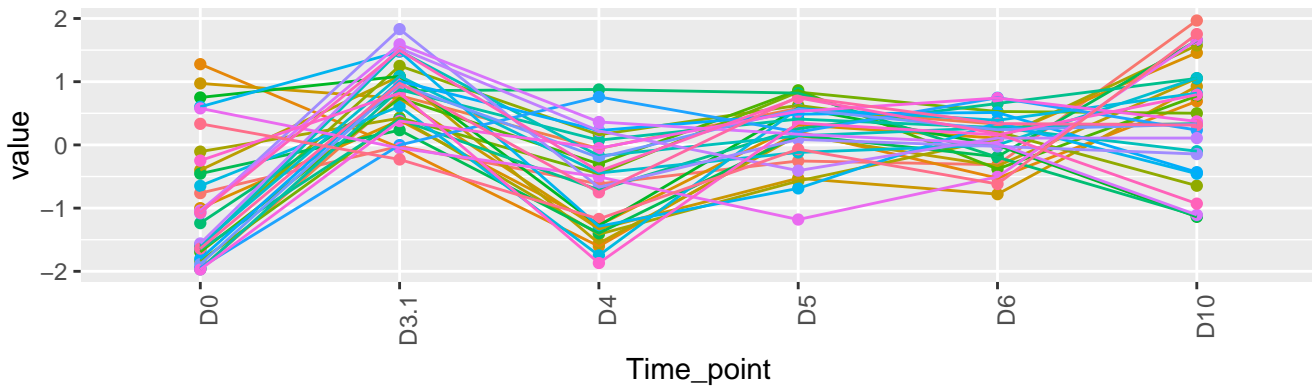
31 genes – KO-cluster-238-standardized



31 genes – WT-cluster-237-standardized

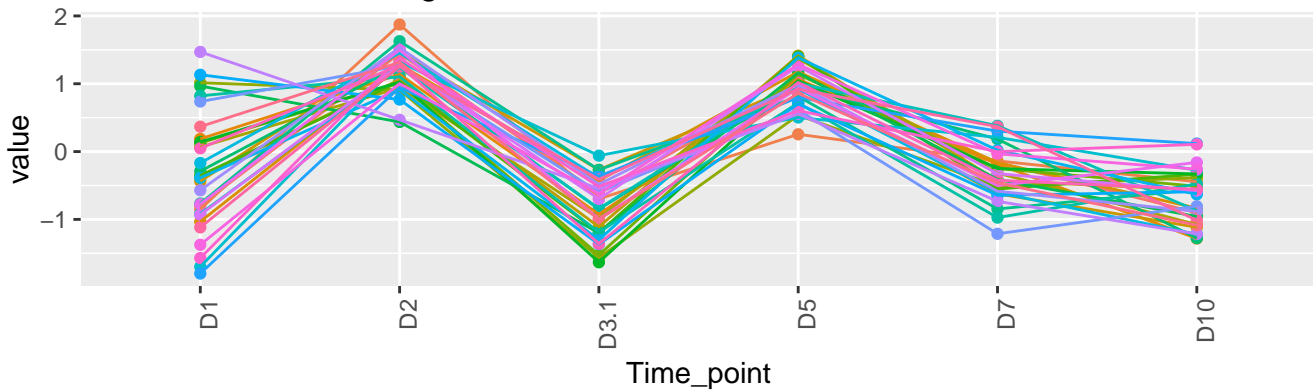


31 genes – KO-cluster-237-standardized

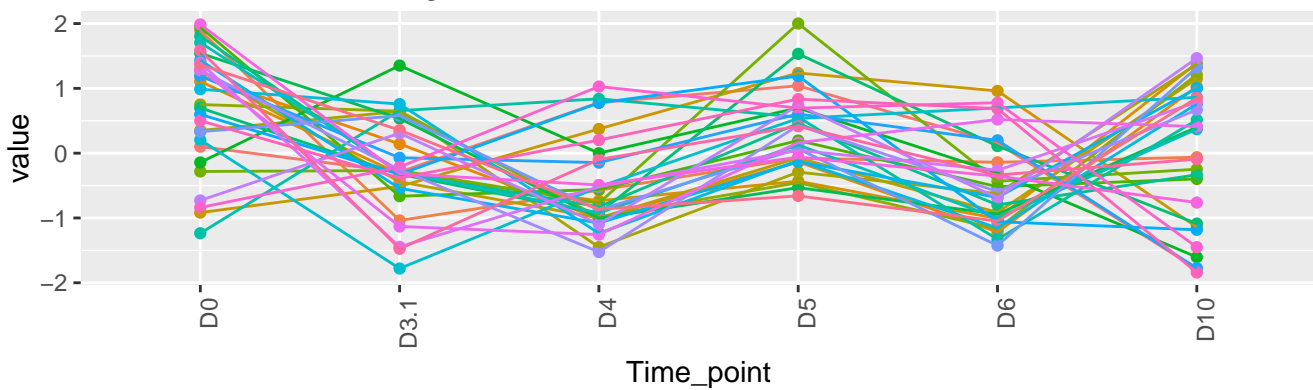




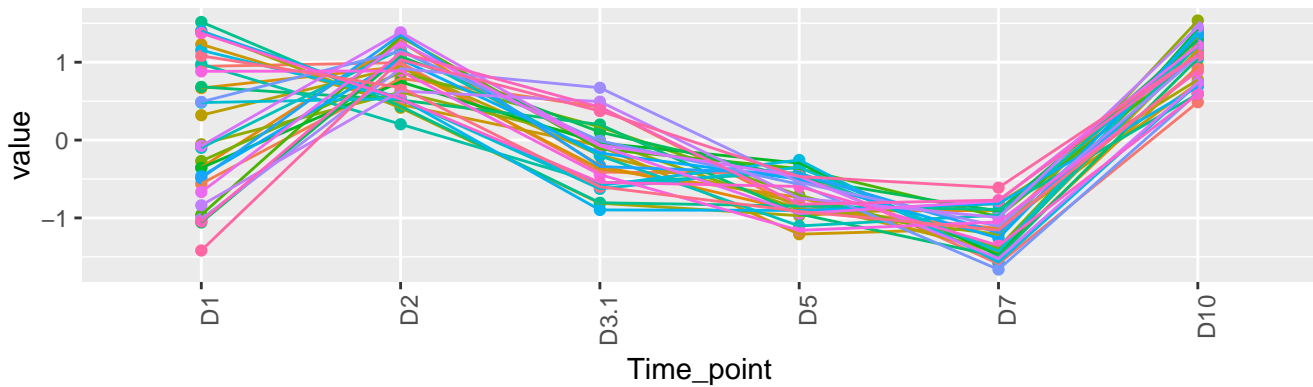
31 genes – WT-cluster-236-standardized



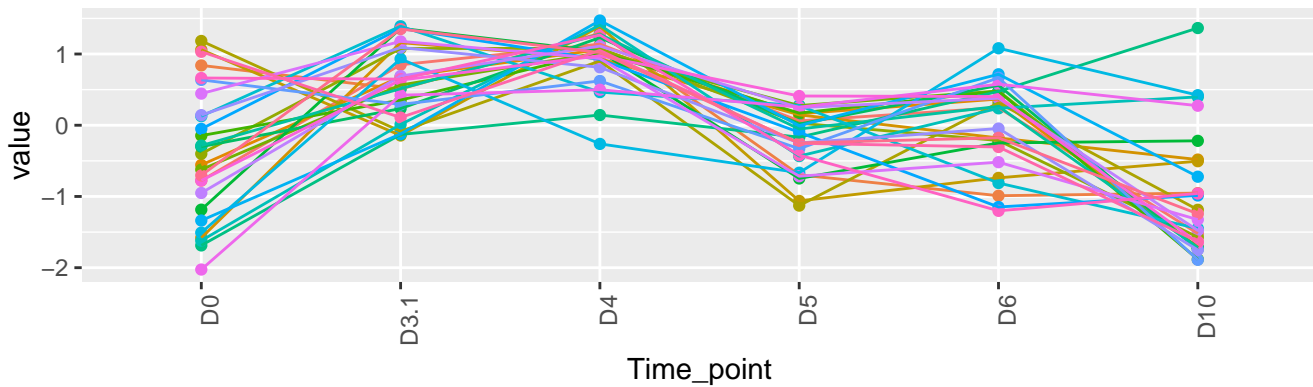
31 genes – KO-cluster-236-standardized



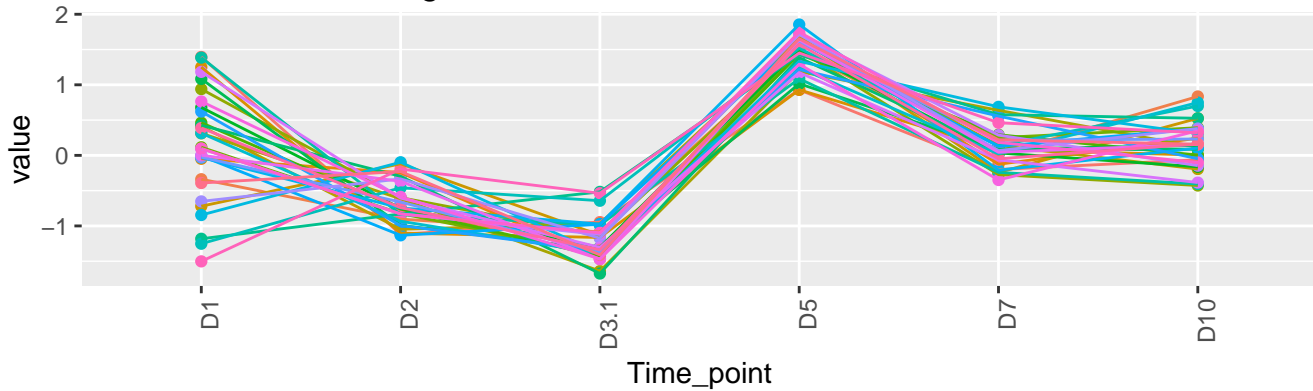
31 genes – WT-cluster-235-standardized



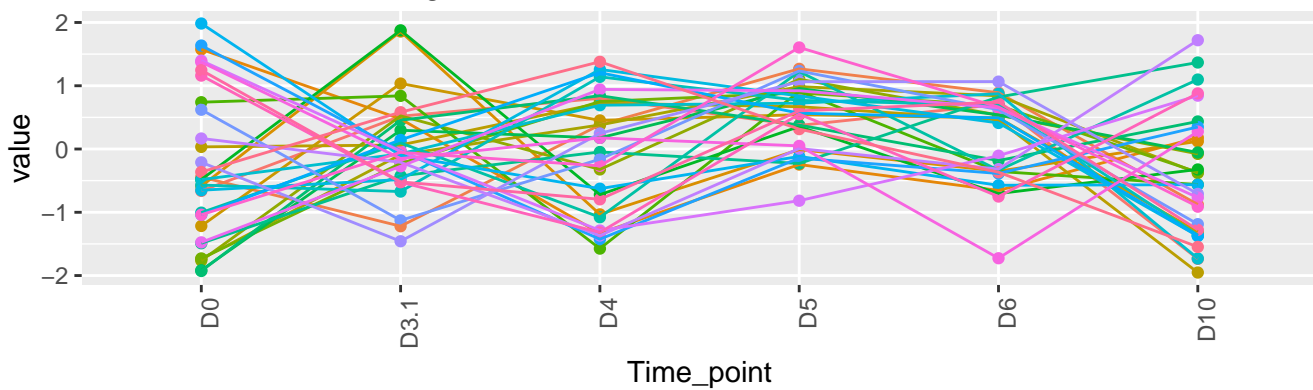
27 genes – KO-cluster-235-standardized



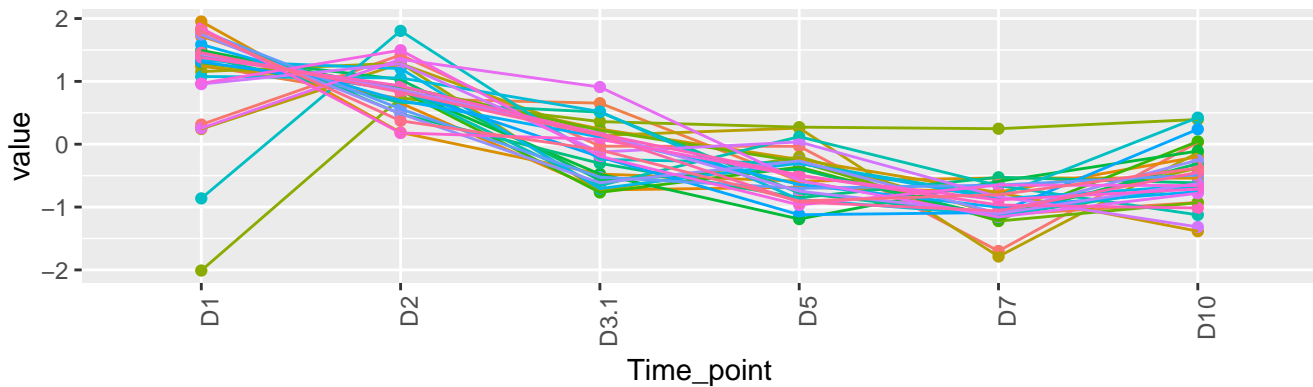
31 genes – WT-cluster-234-standardized



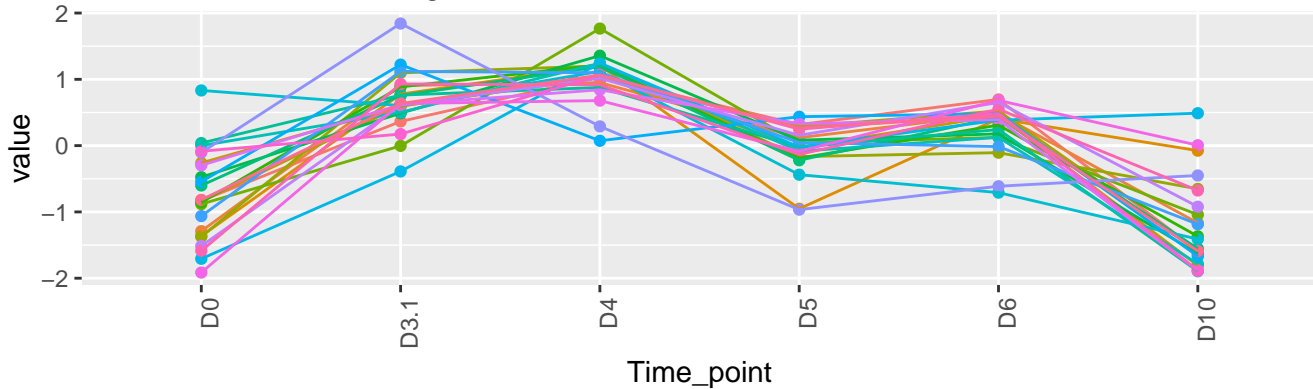
31 genes – KO-cluster-234-standardized



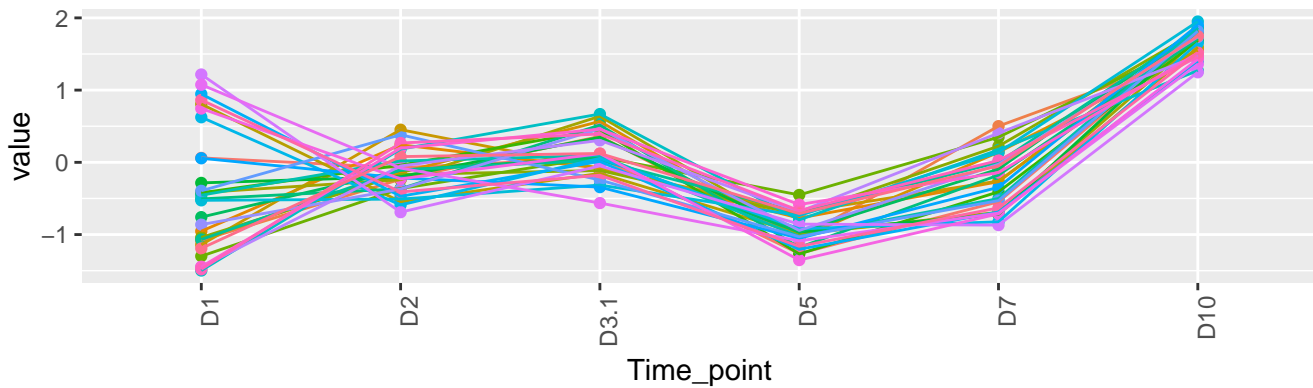
30 genes – WT-cluster-233-standardized



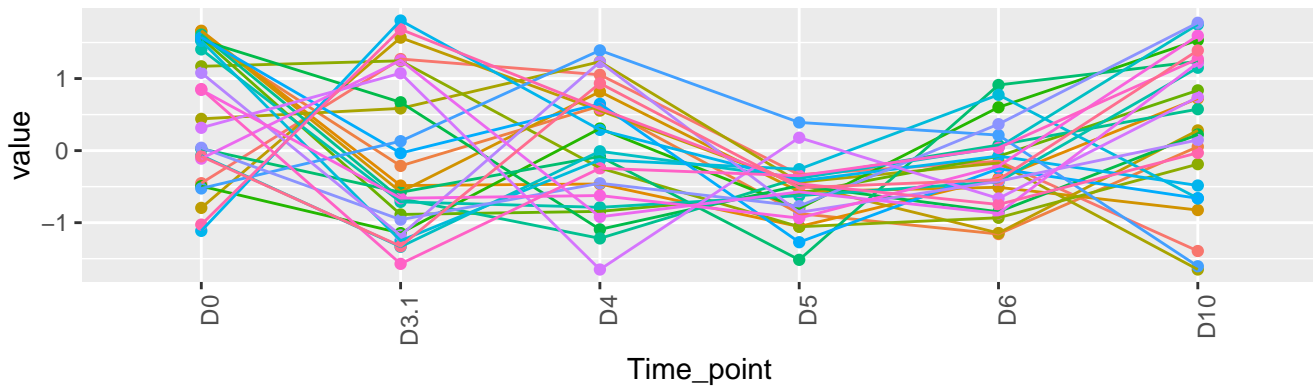
23 genes – KO-cluster-233-standardized



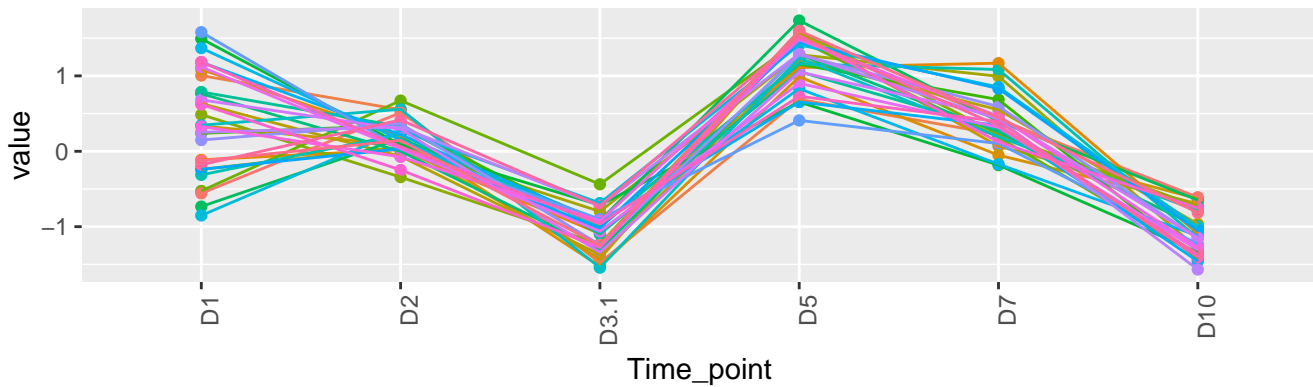
30 genes – WT-cluster-232-standardized



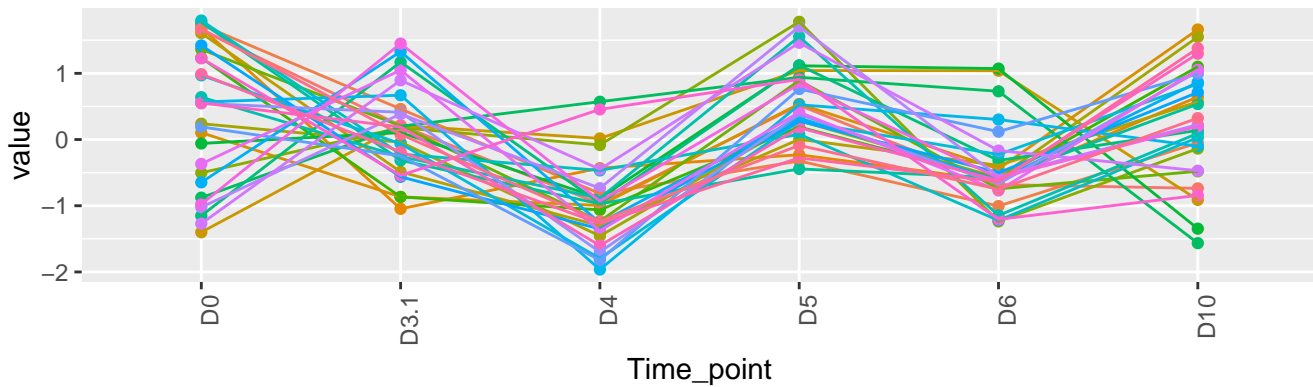
26 genes – KO-cluster-232-standardized



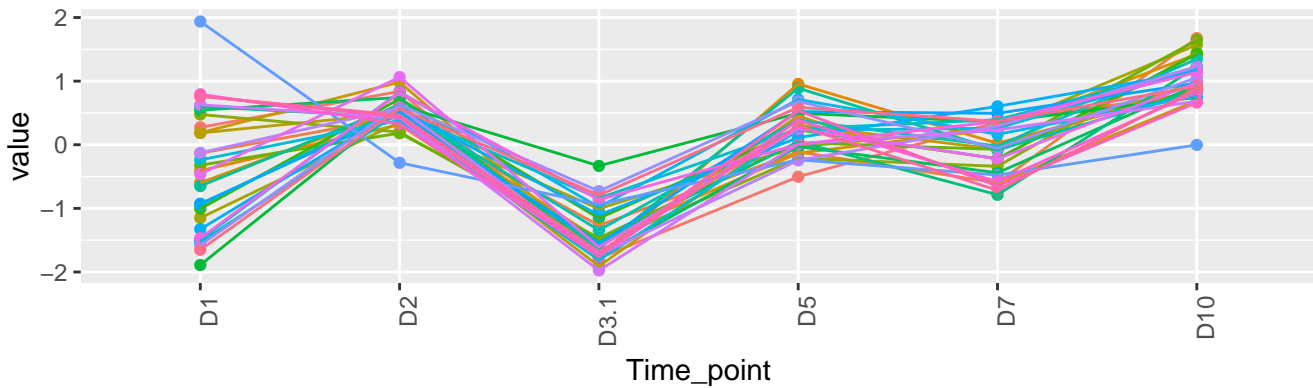
30 genes – WT-cluster-231-standardized



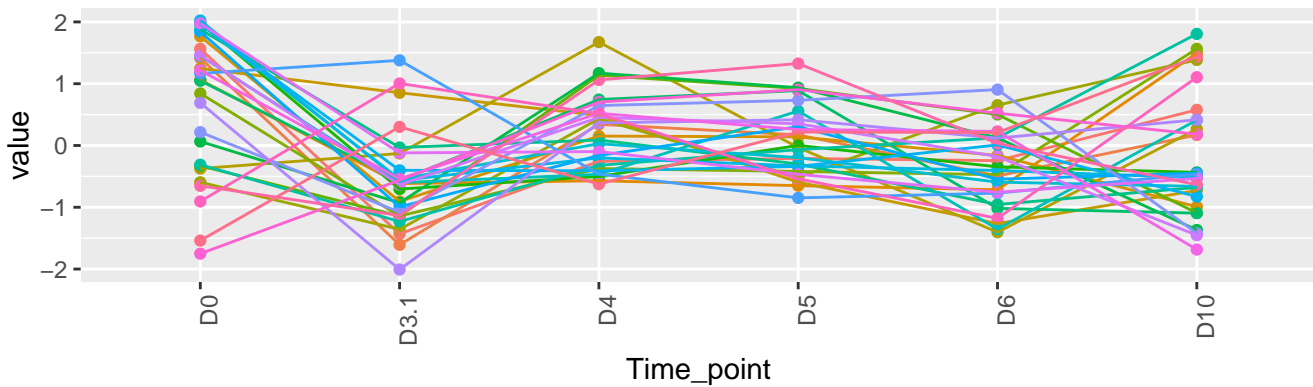
30 genes – KO-cluster-231-standardized



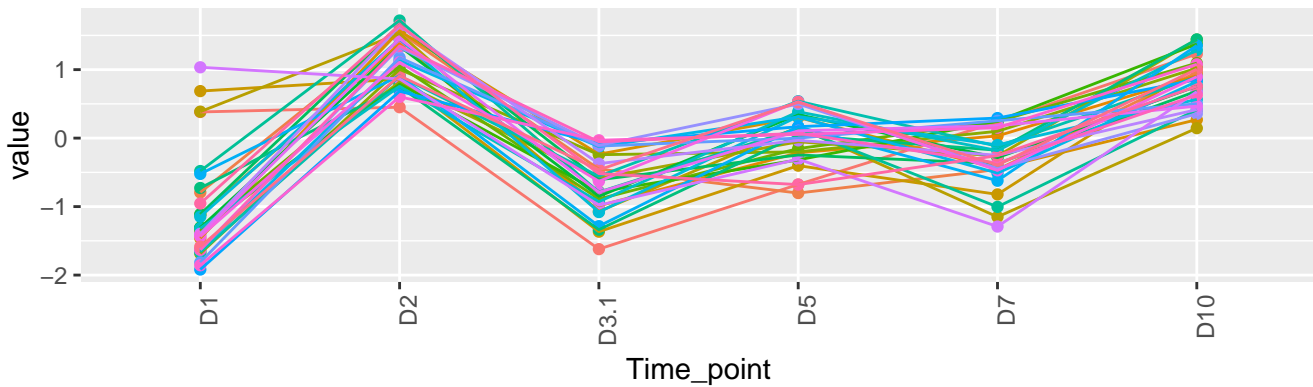
30 genes – WT-cluster-230-standardized



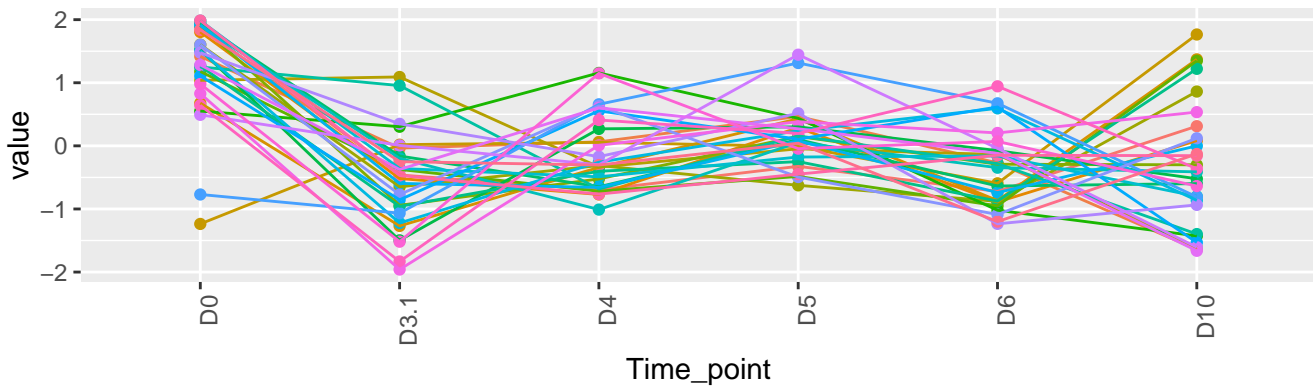
29 genes – KO-cluster-230-standardized



30 genes – WT-cluster-229-standardized

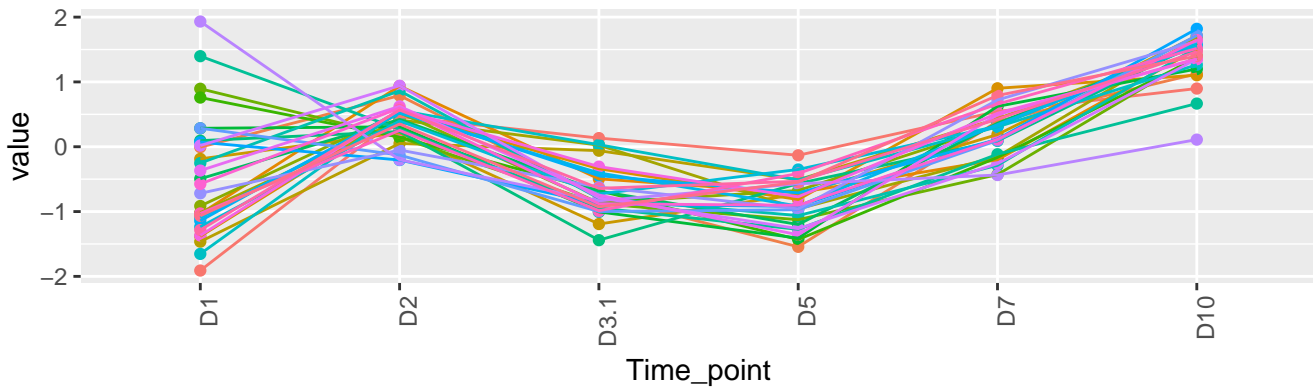


29 genes – KO-cluster-229-standardized

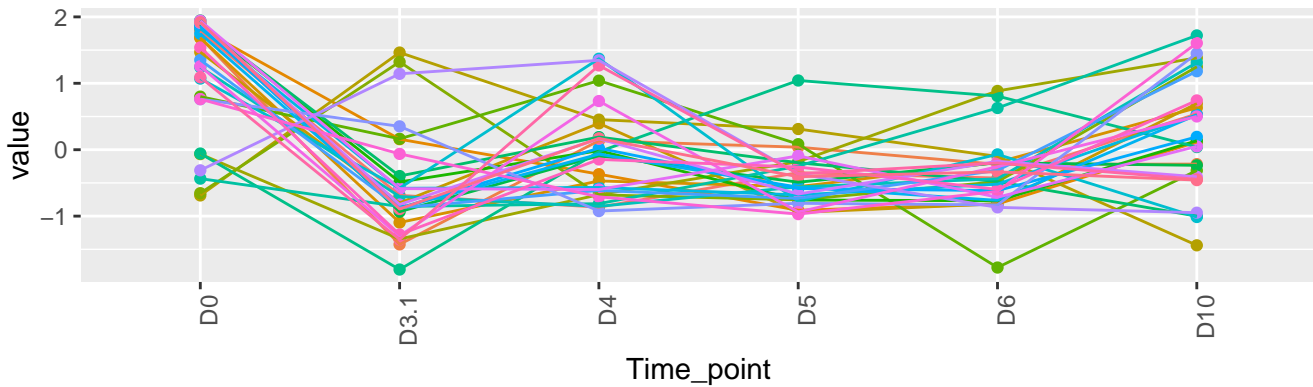




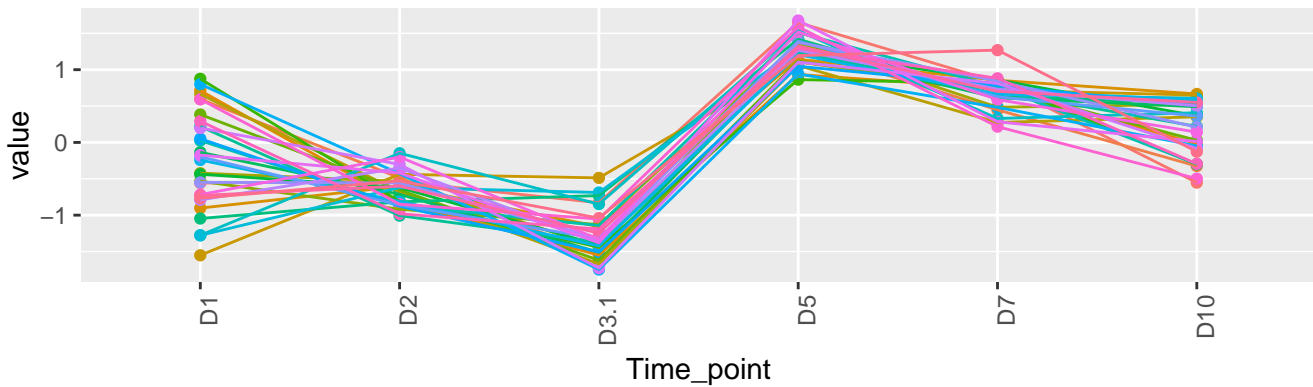
30 genes – WT-cluster-228-standardized



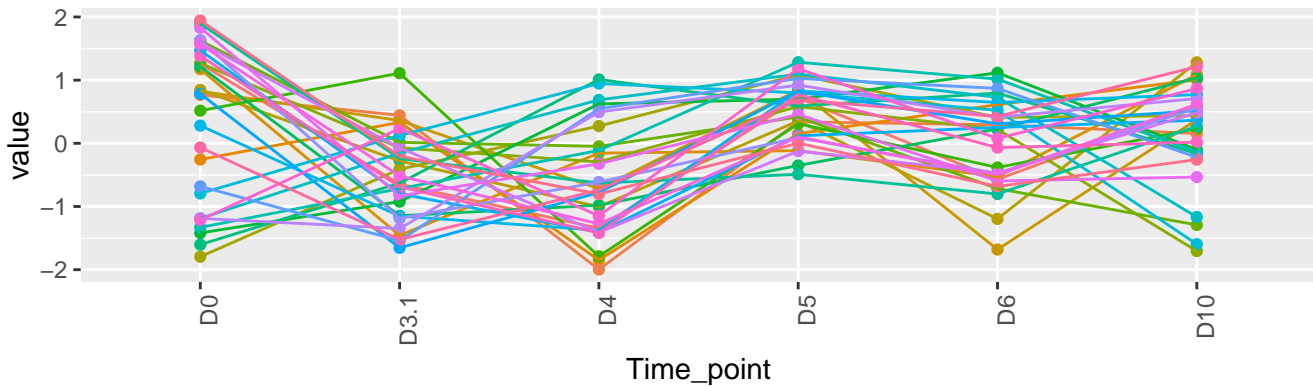
29 genes – KO-cluster-228-standardized



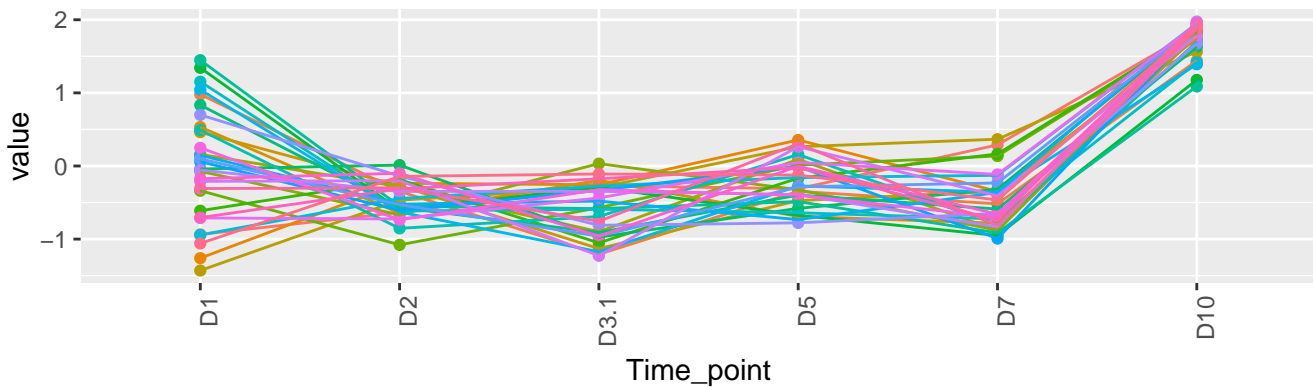
30 genes – WT-cluster-227-standardized



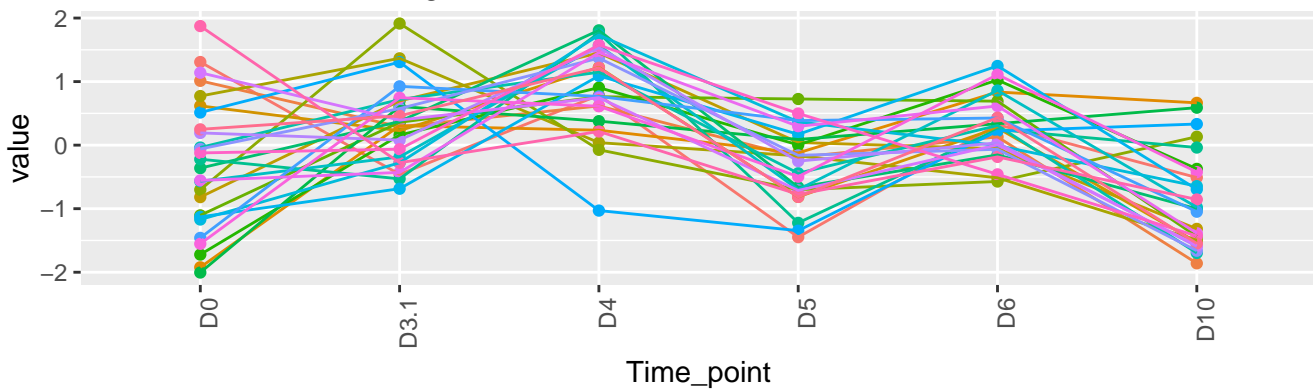
30 genes – KO-cluster-227-standardized



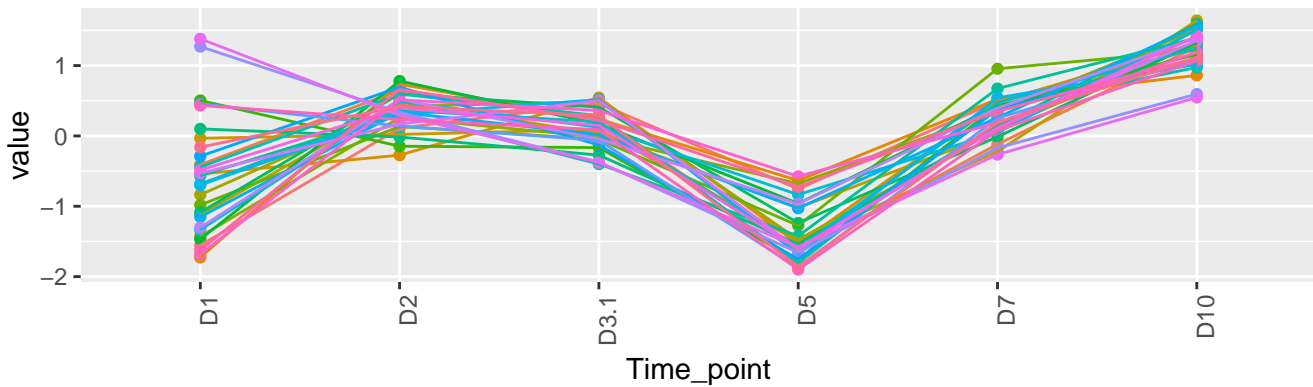
30 genes – WT-cluster-226-standardized



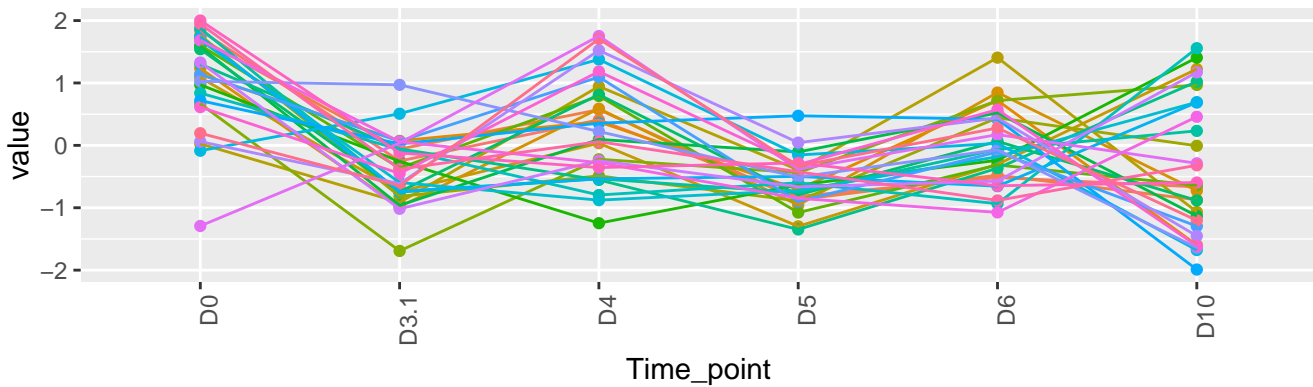
26 genes – KO-cluster-226-standardized



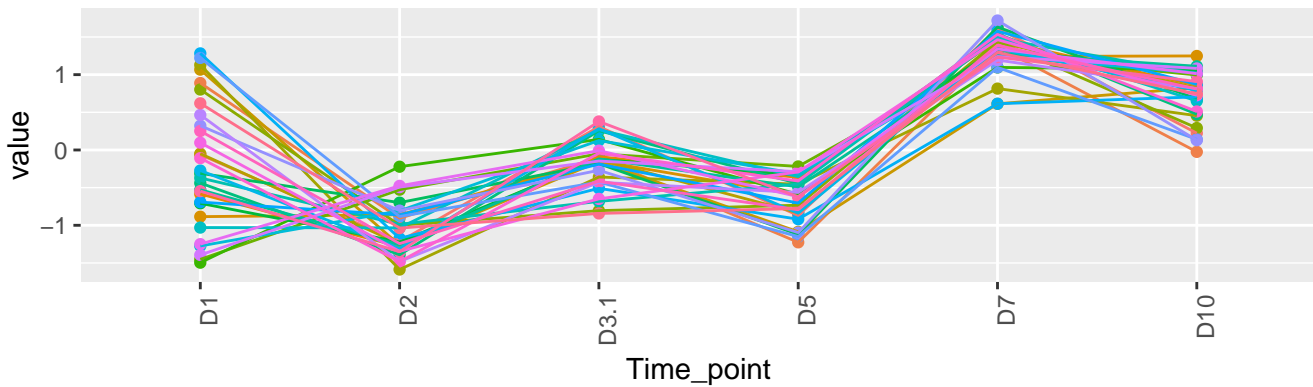
30 genes – WT-cluster-225-standardized



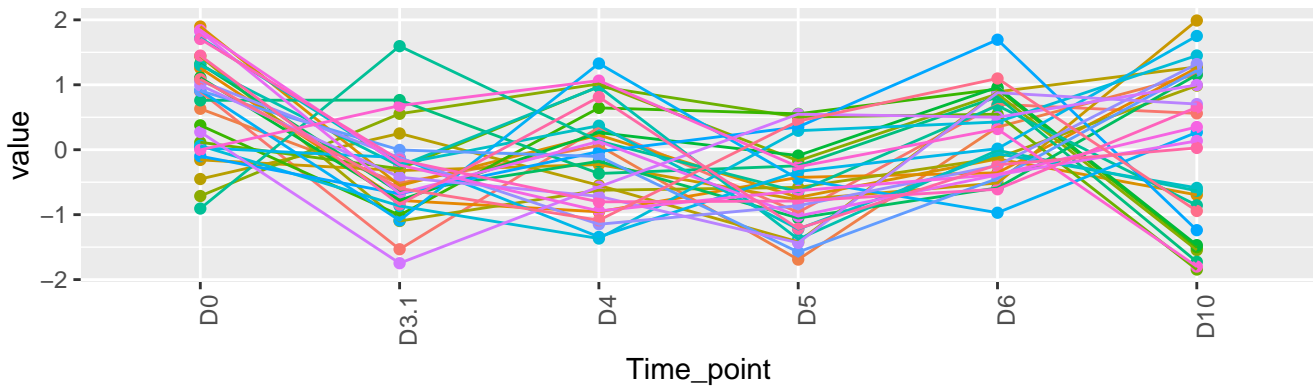
29 genes – KO-cluster-225-standardized



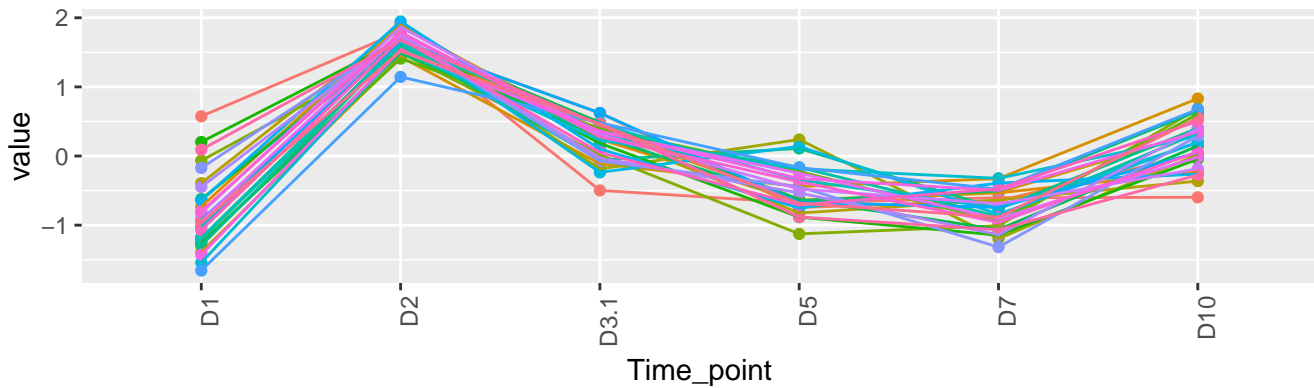
30 genes – WT-cluster-224-standardized



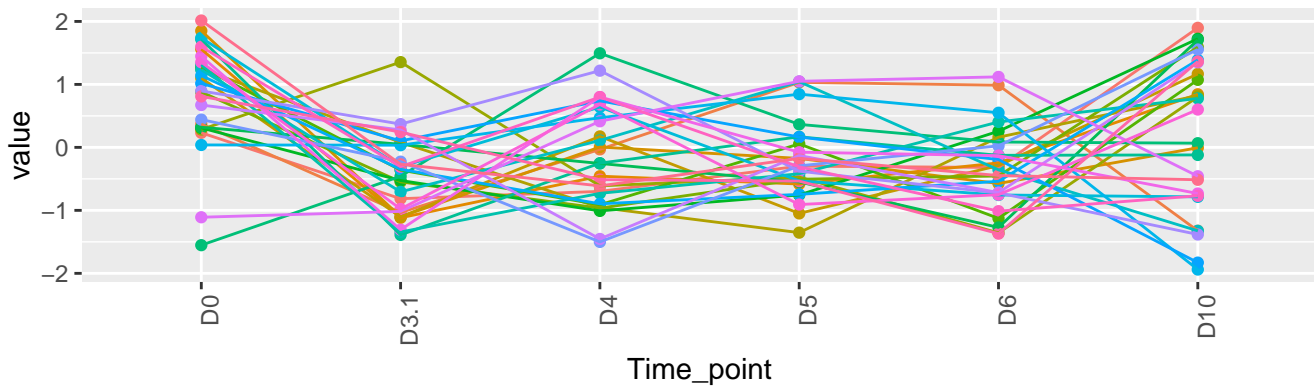
30 genes – KO-cluster-224-standardized



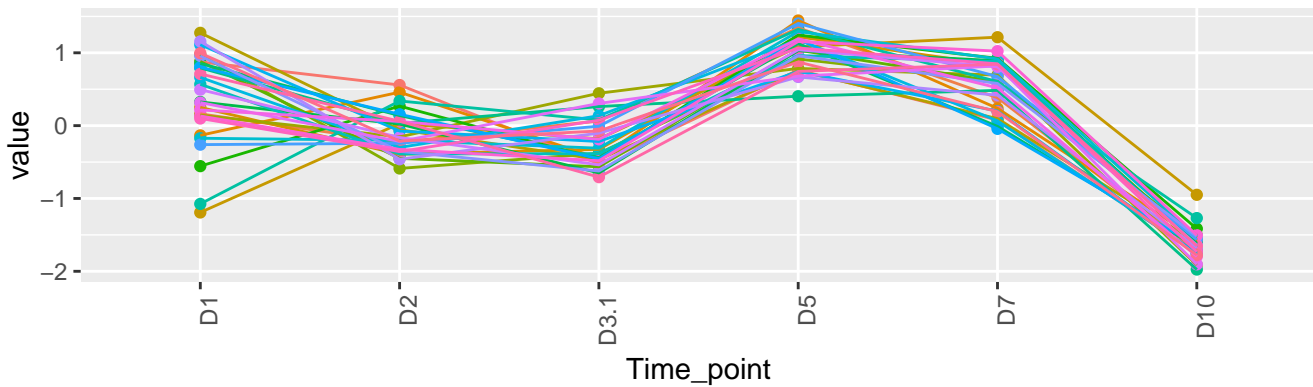
29 genes – WT-cluster-223-standardized



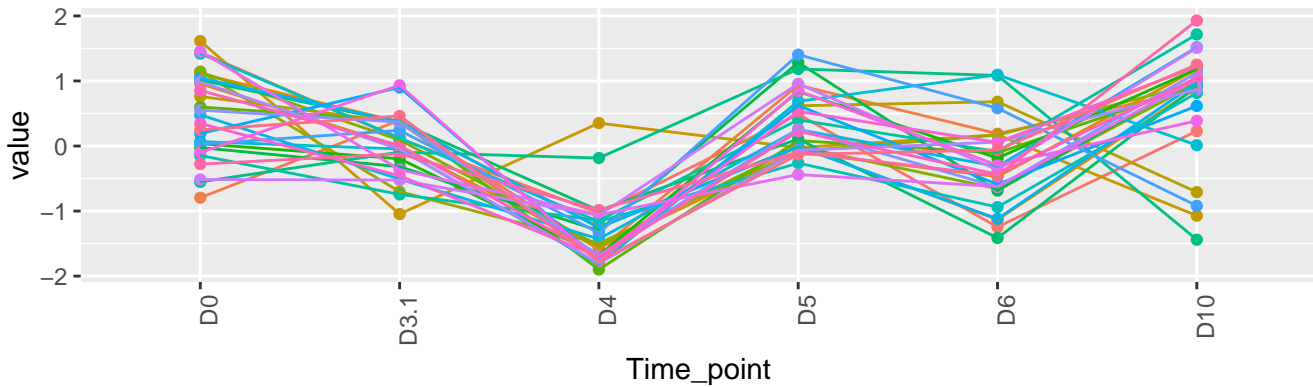
28 genes – KO-cluster-223-standardized



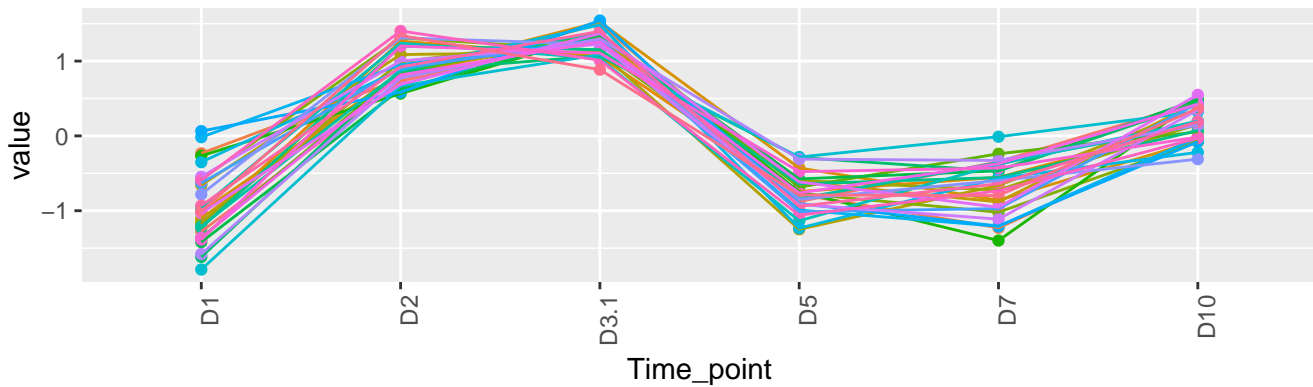
29 genes – WT-cluster-222-standardized



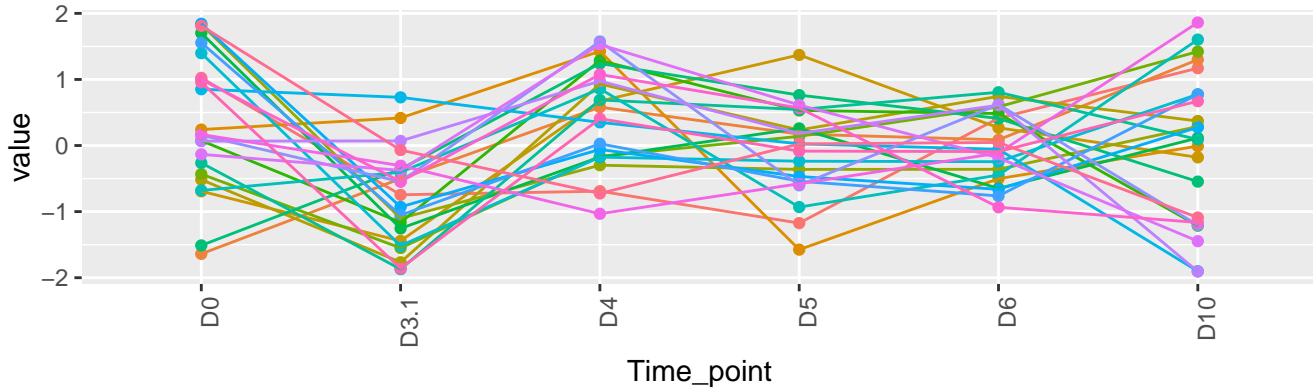
29 genes – KO-cluster-222-standardized



29 genes – WT-cluster-221-standardized

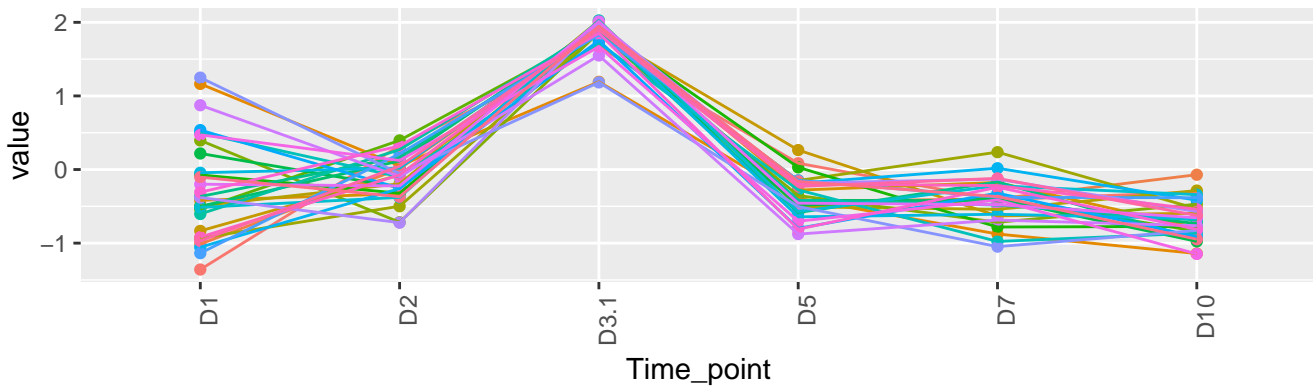


23 genes – KO-cluster-221-standardized

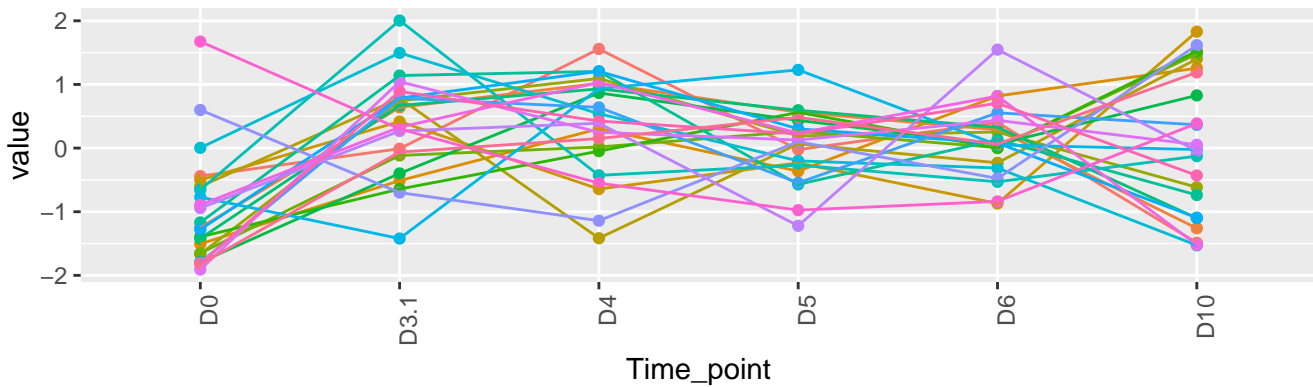




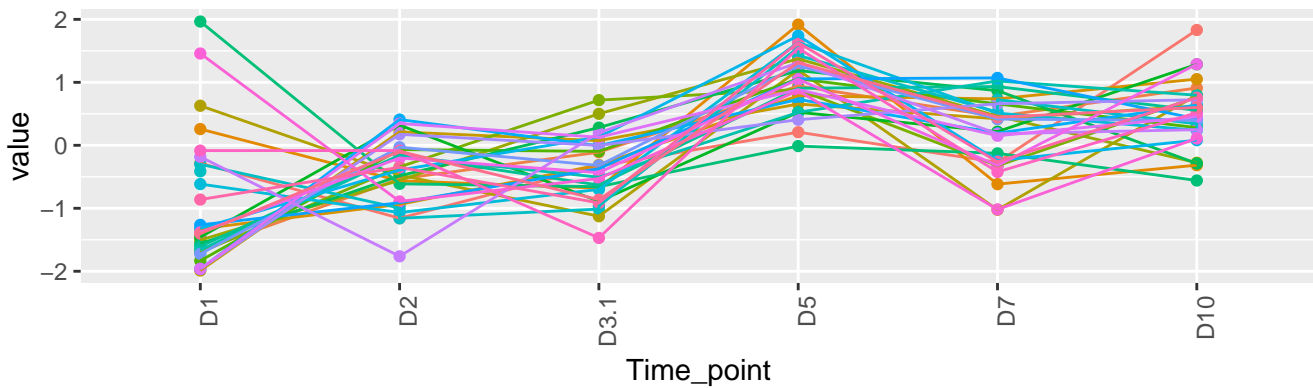
29 genes – WT-cluster-220-standardized



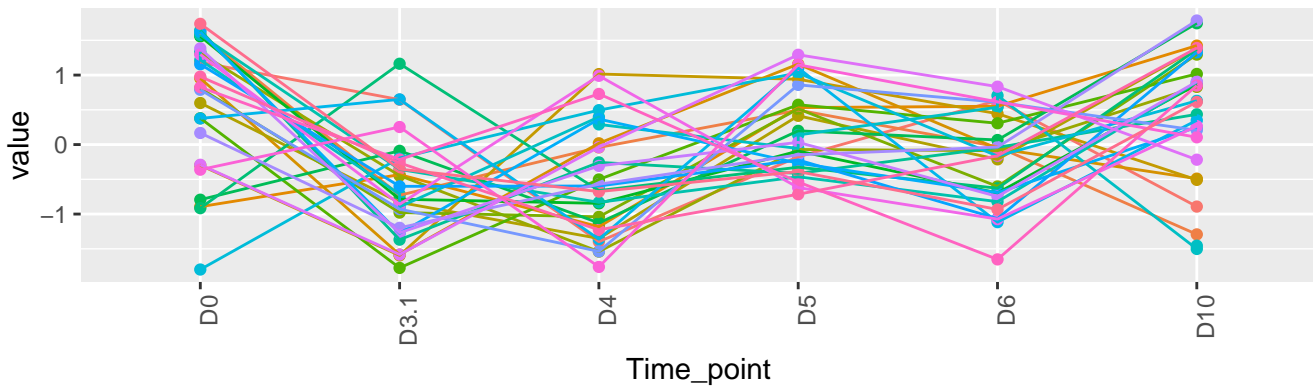
23 genes – KO-cluster-220-standardized



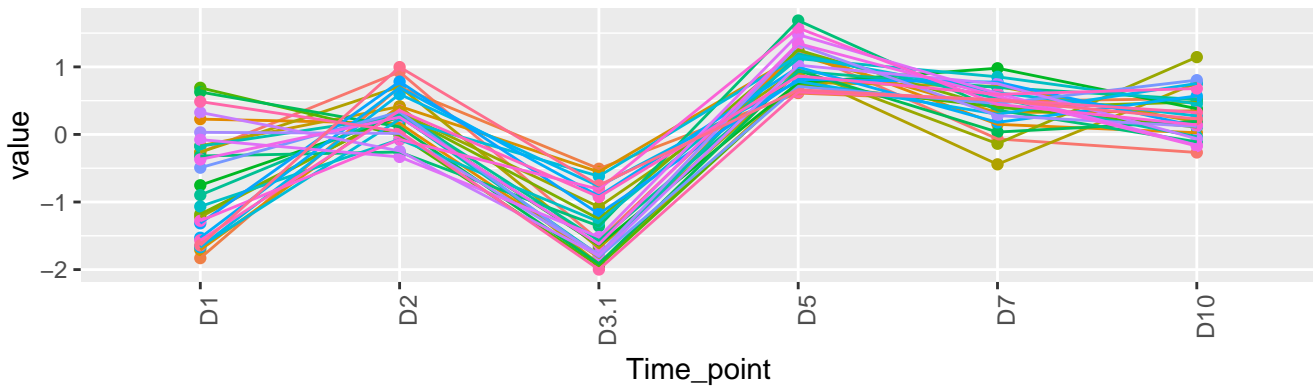
29 genes – WT-cluster-219-standardized



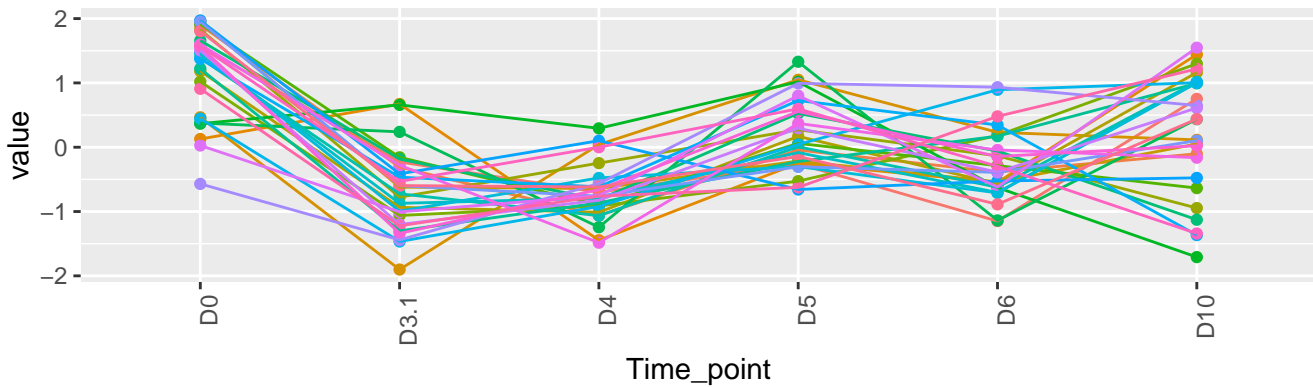
29 genes – KO-cluster-219-standardized



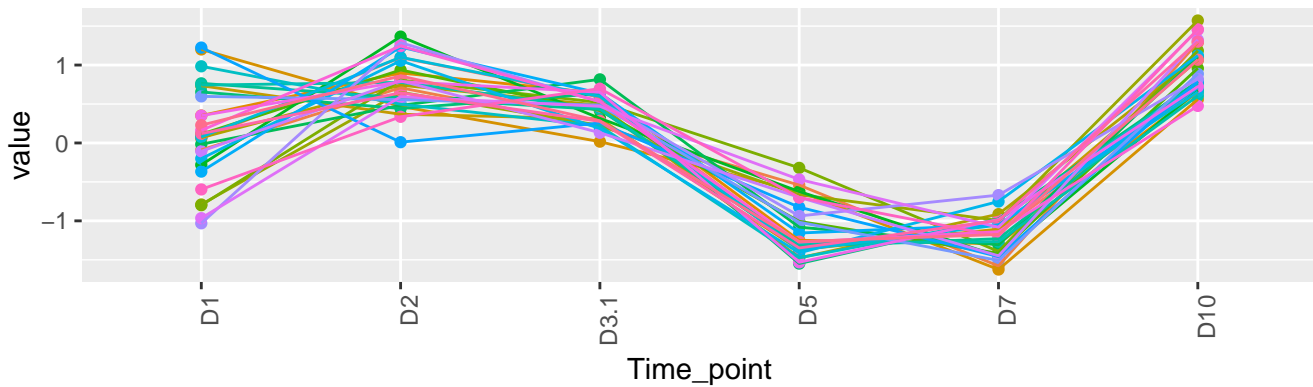
28 genes – WT-cluster-218-standardized



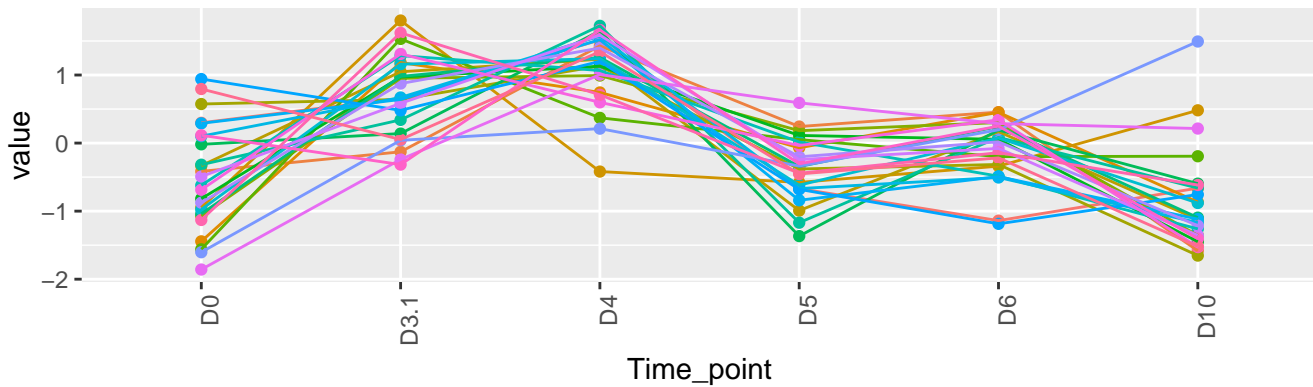
28 genes – KO-cluster-218-standardized



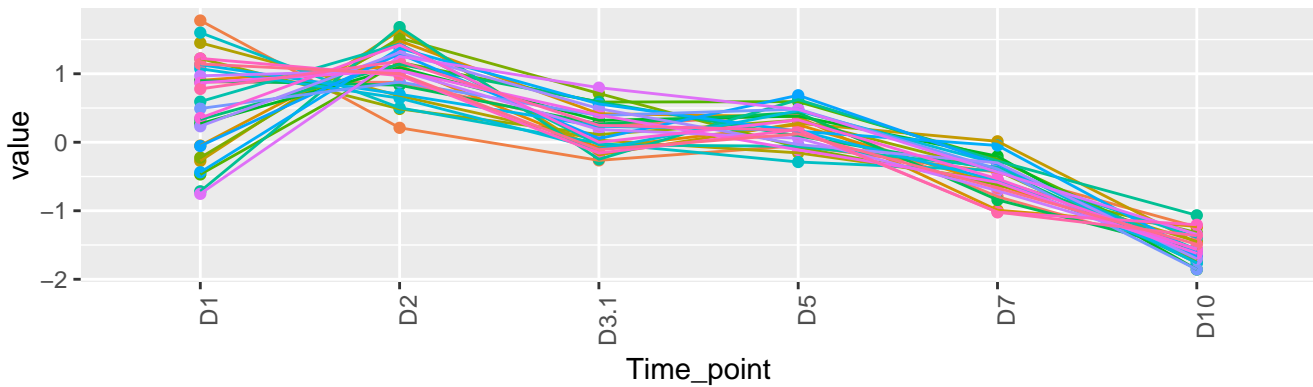
28 genes – WT-cluster-217-standardized



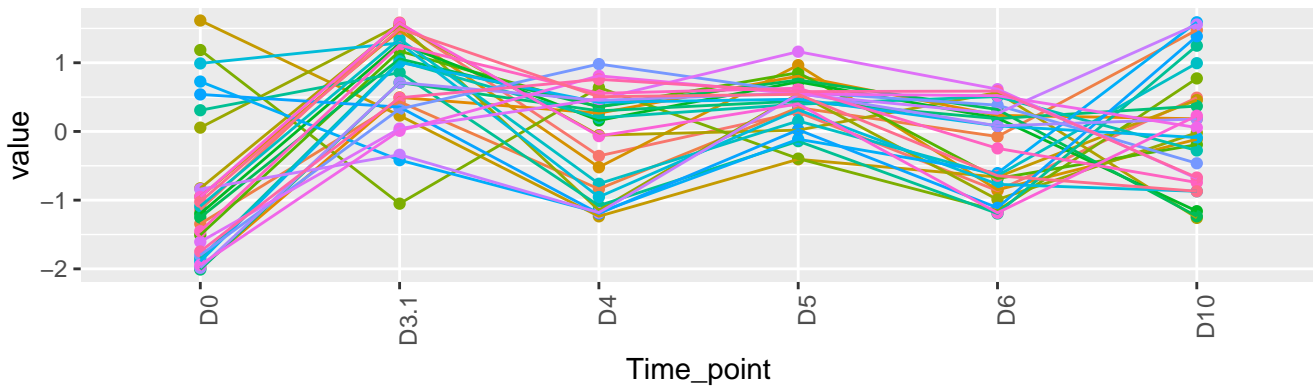
25 genes – KO-cluster-217-standardized



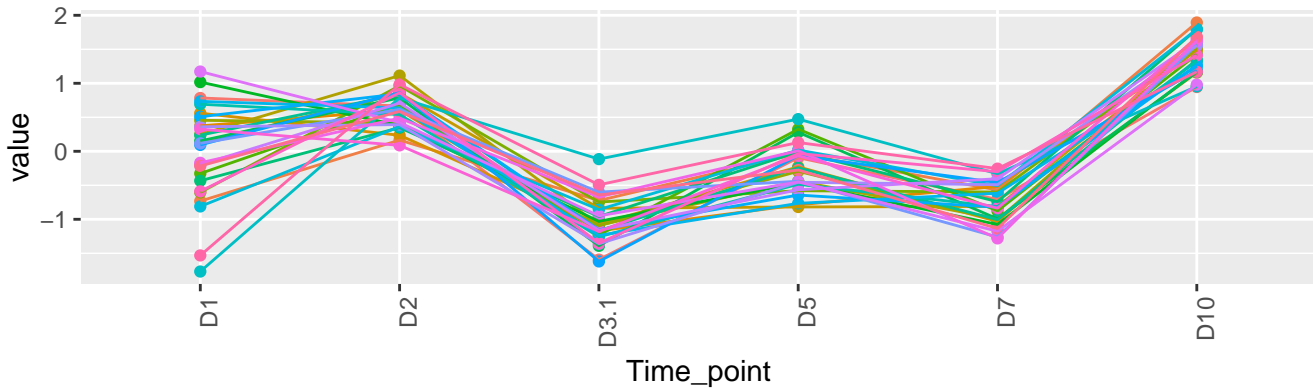
28 genes – WT-cluster-216-standardized



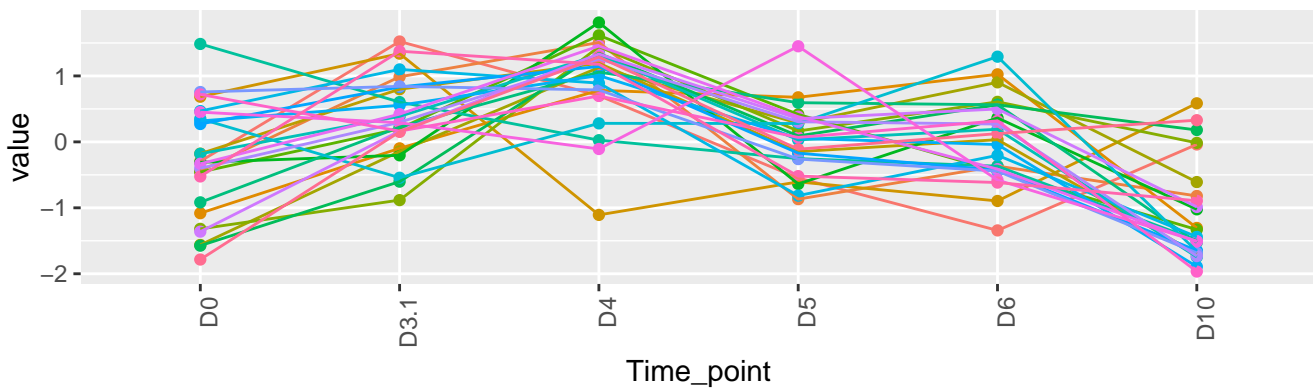
28 genes – KO-cluster-216-standardized



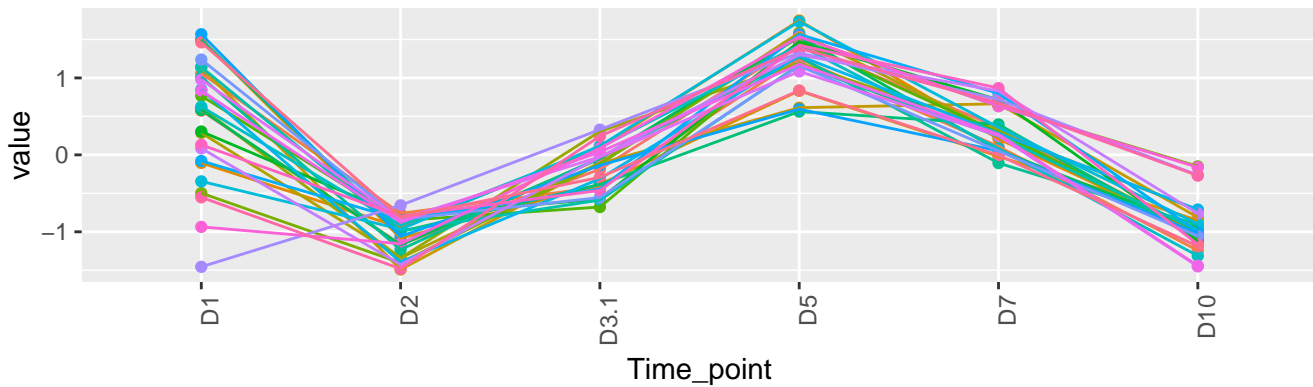
28 genes – WT-cluster-215-standardized



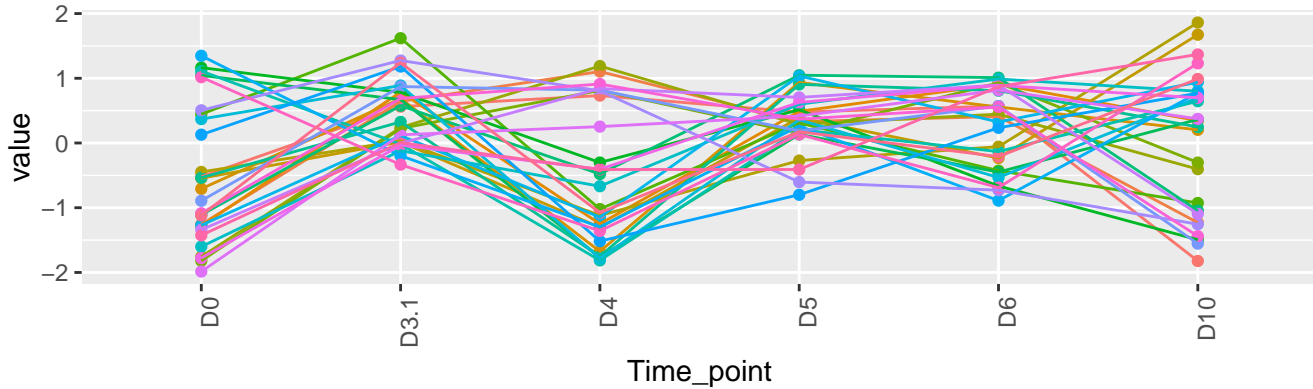
25 genes – KO-cluster-215-standardized



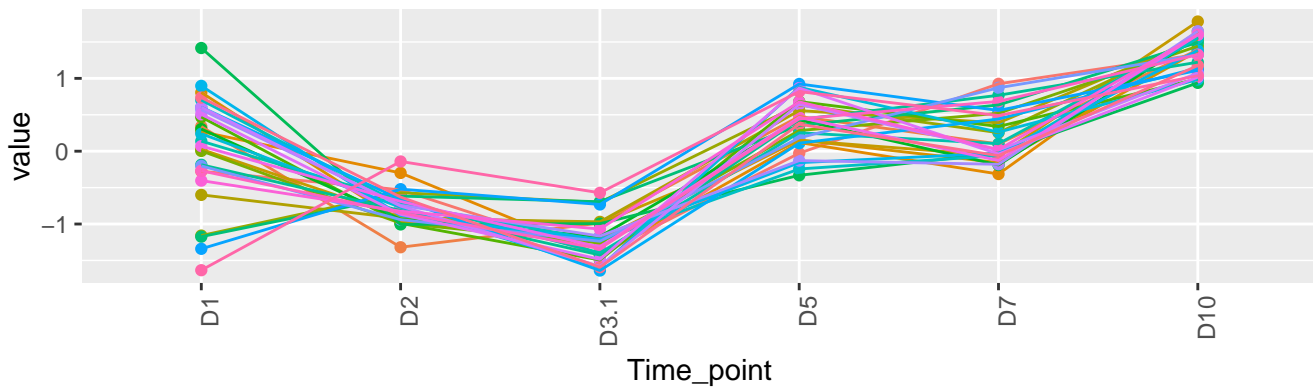
28 genes – WT-cluster-214-standardized



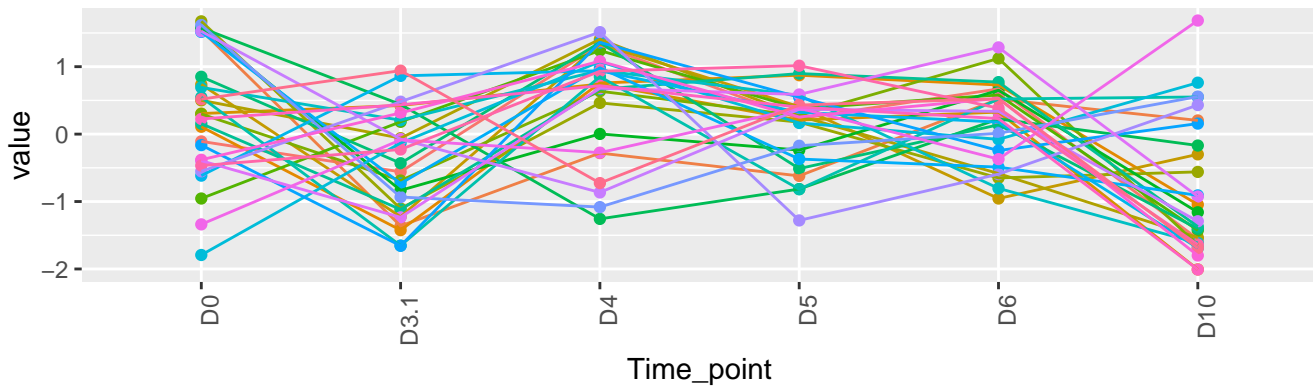
28 genes – KO-cluster-214-standardized



28 genes – WT-cluster-213-standardized

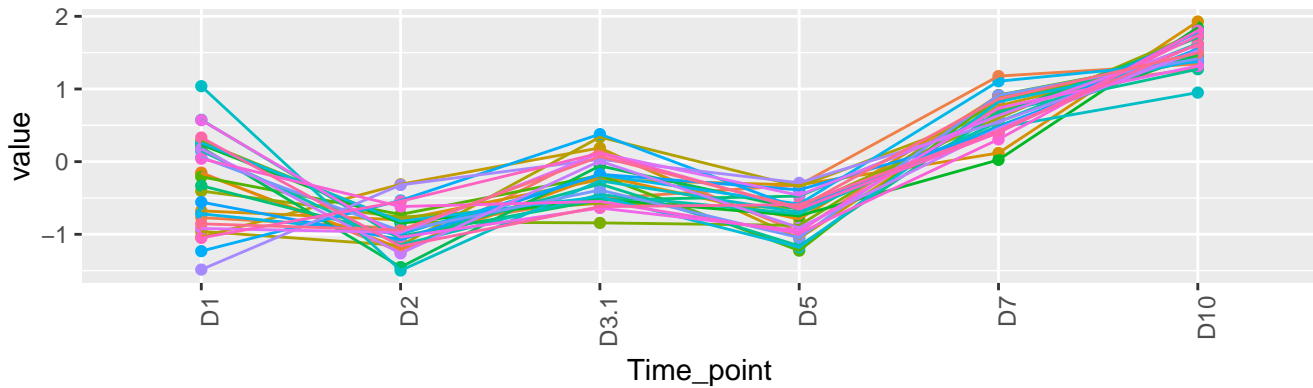


28 genes – KO-cluster-213-standardized

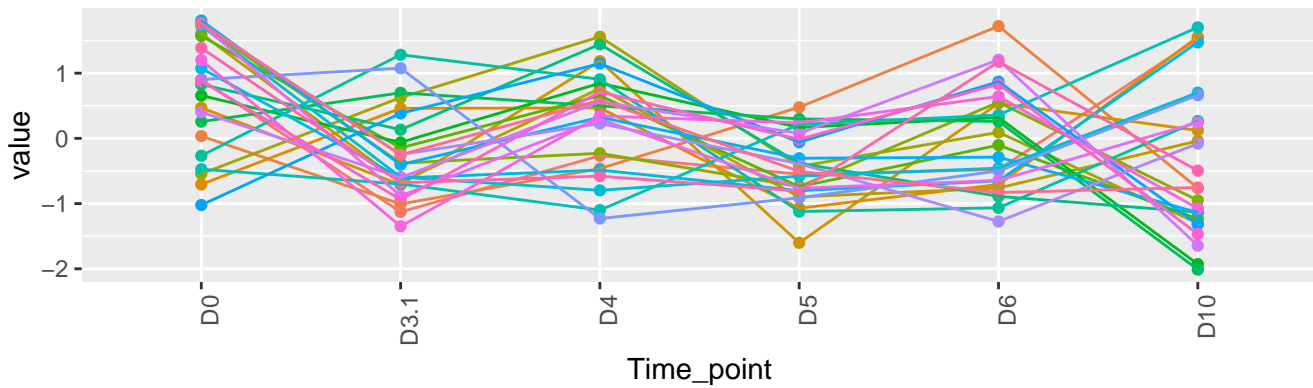




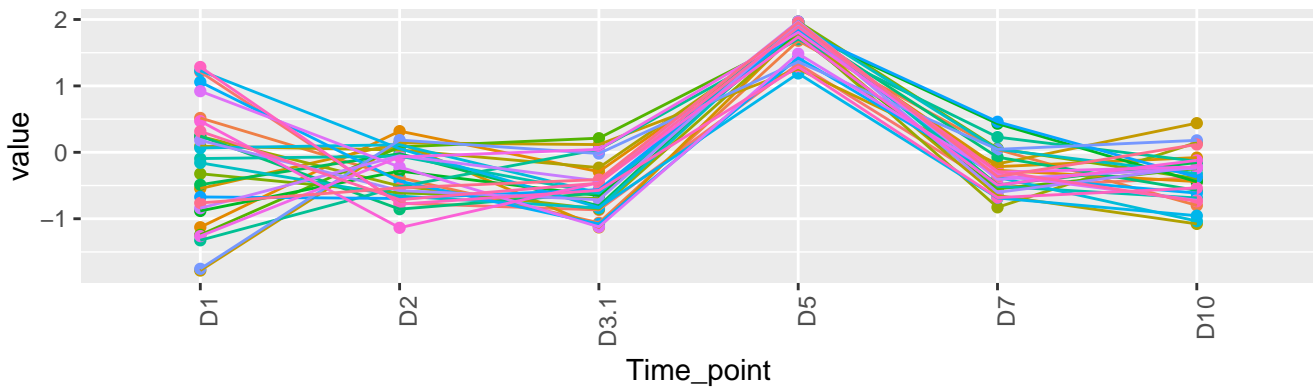
28 genes – WT-cluster-212-standardized



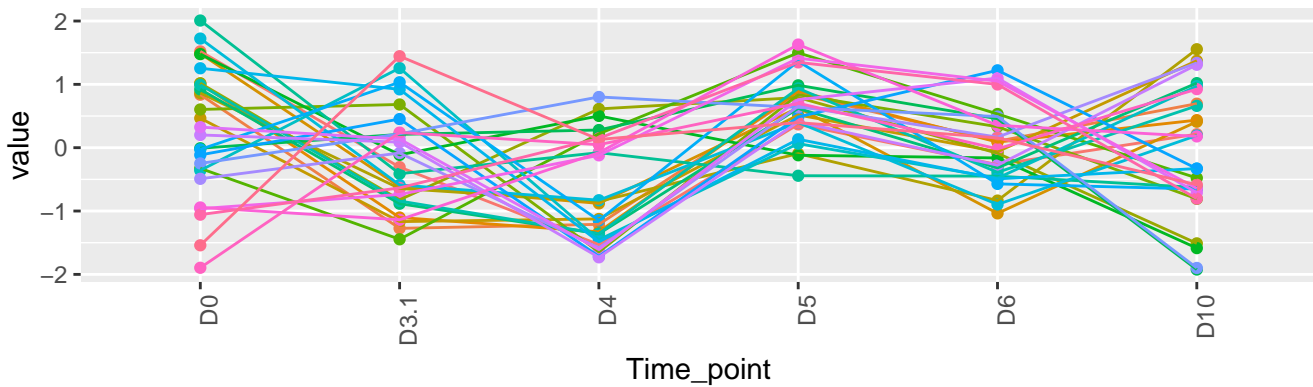
25 genes – KO-cluster-212-standardized



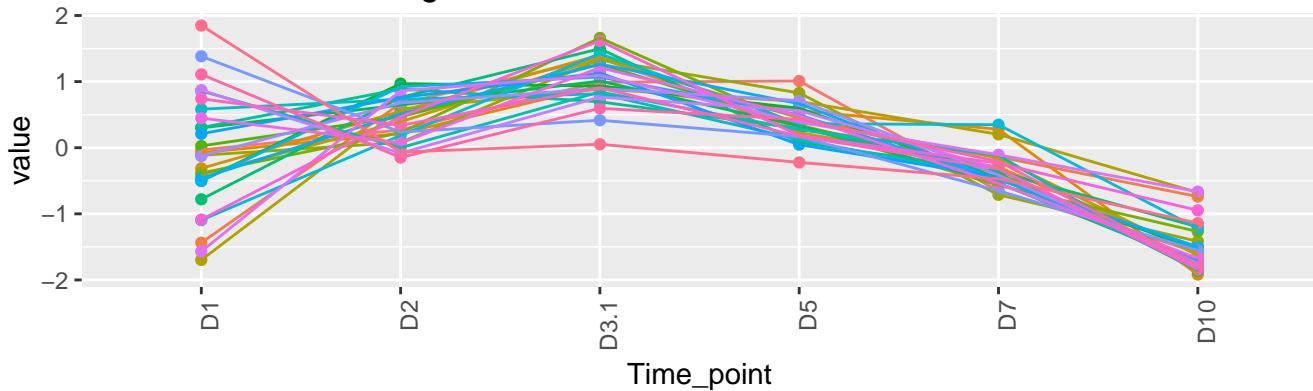
28 genes – WT-cluster-211-standardized



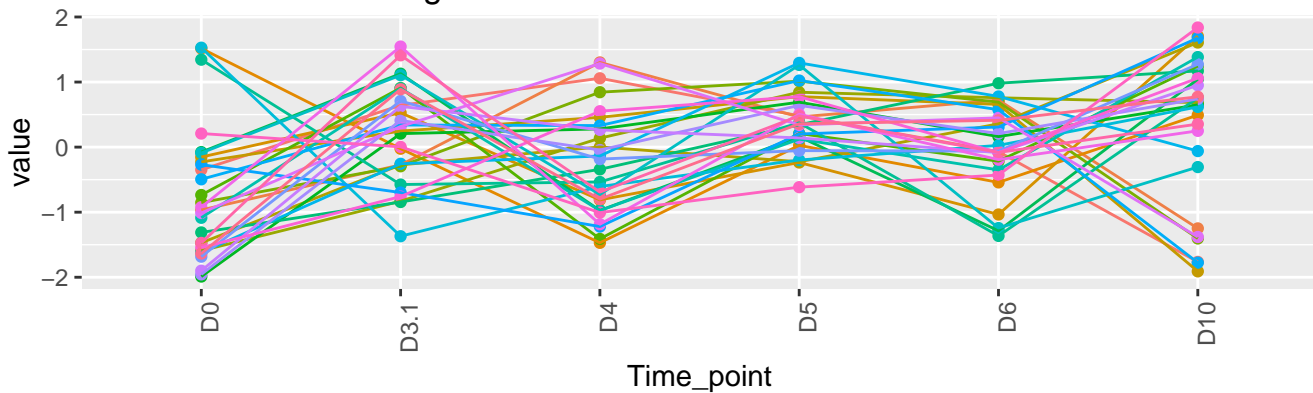
28 genes – KO-cluster-211-standardized



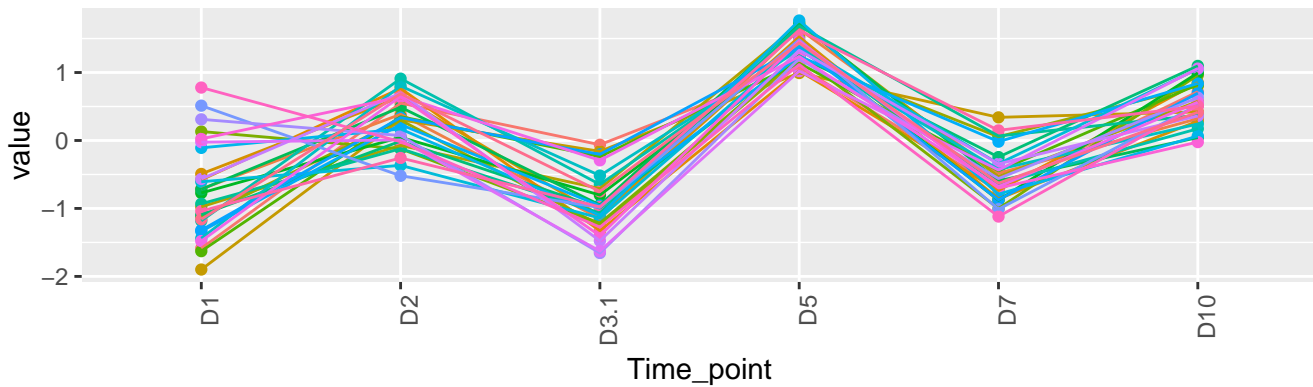
28 genes – WT-cluster-210-standardized



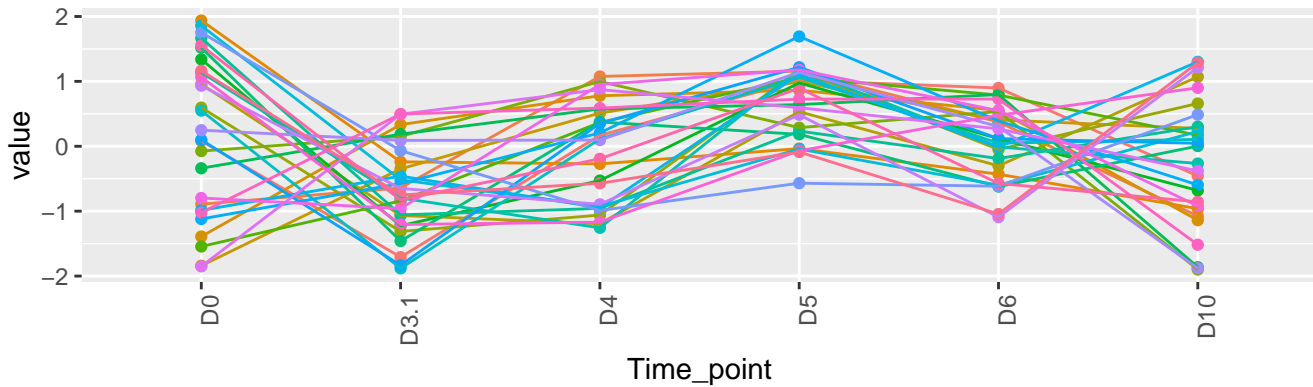
28 genes – KO-cluster-210-standardized



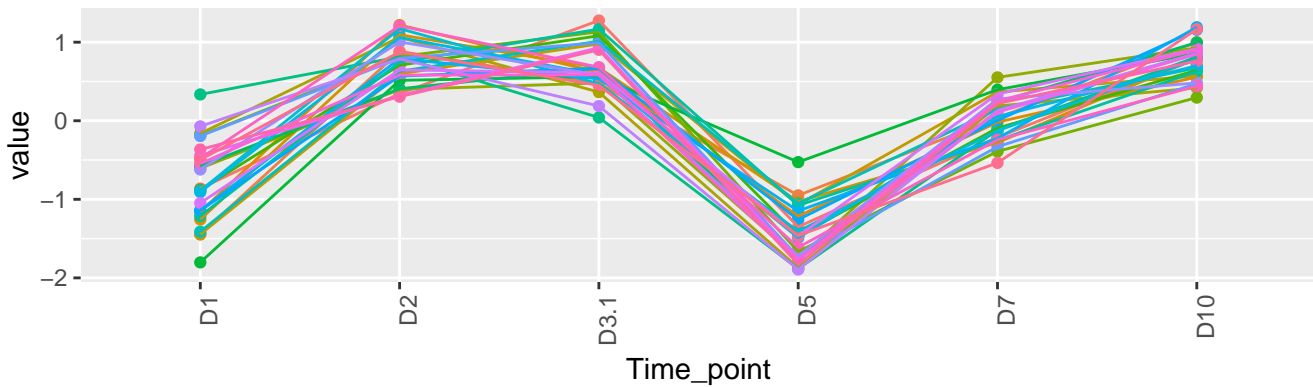
28 genes – WT-cluster-209-standardized



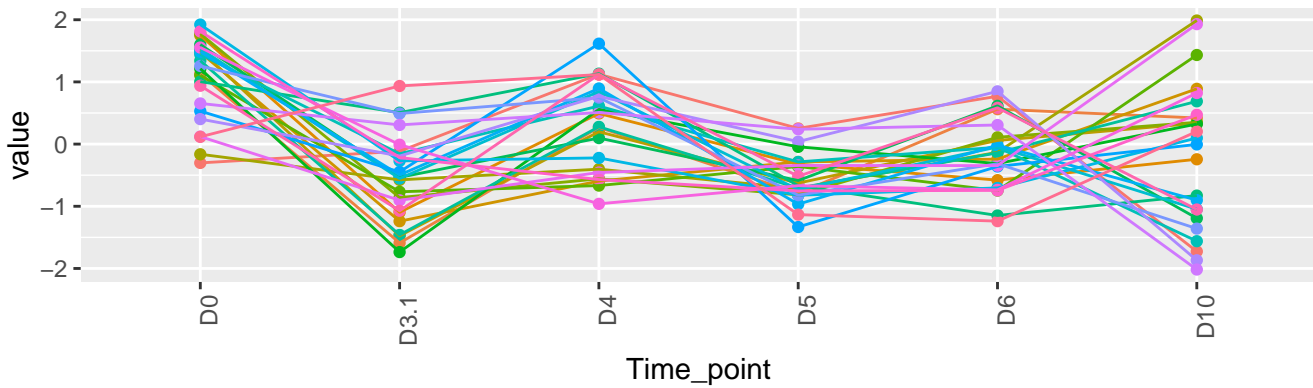
28 genes – KO-cluster-209-standardized



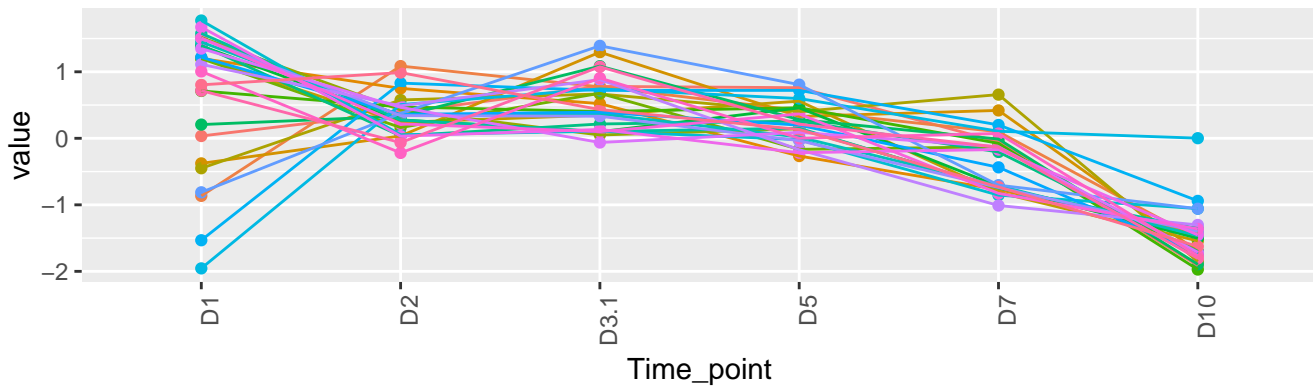
27 genes – WT-cluster-208-standardized



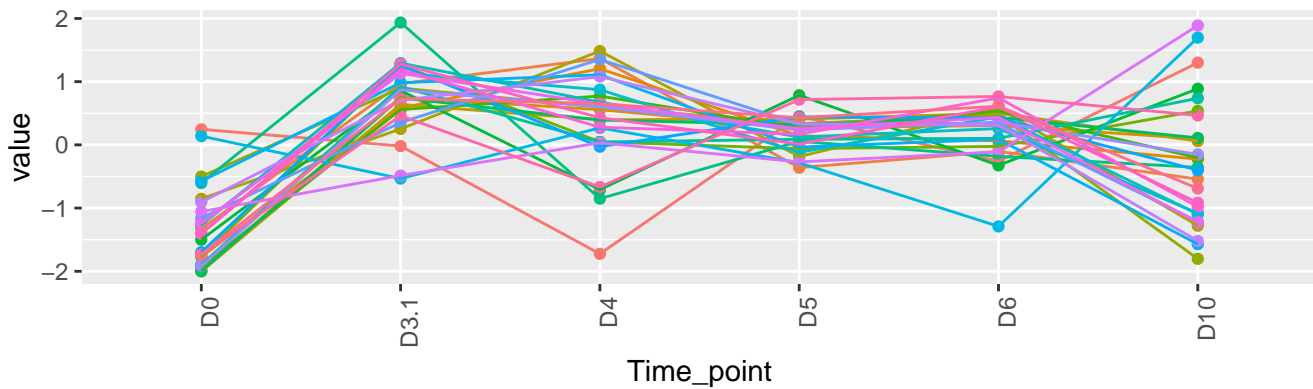
25 genes – KO-cluster-208-standardized



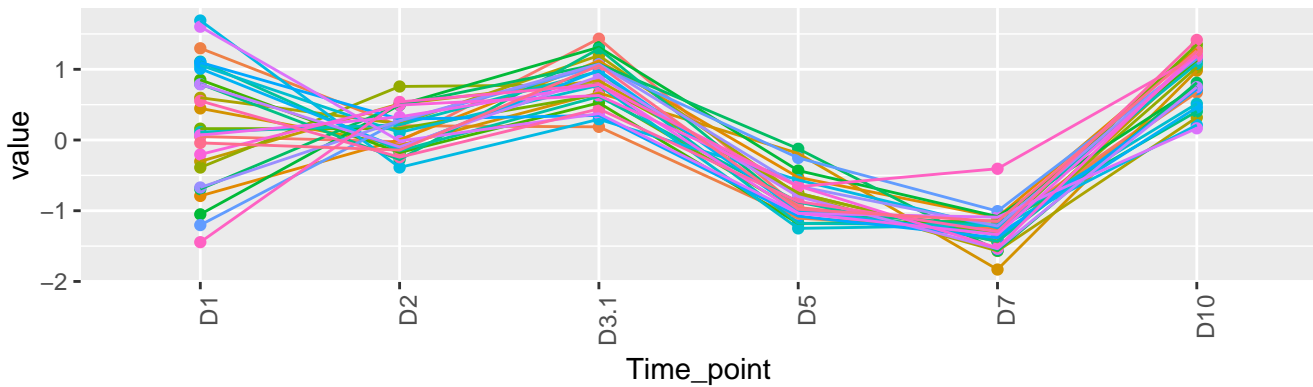
27 genes – WT-cluster-207-standardized



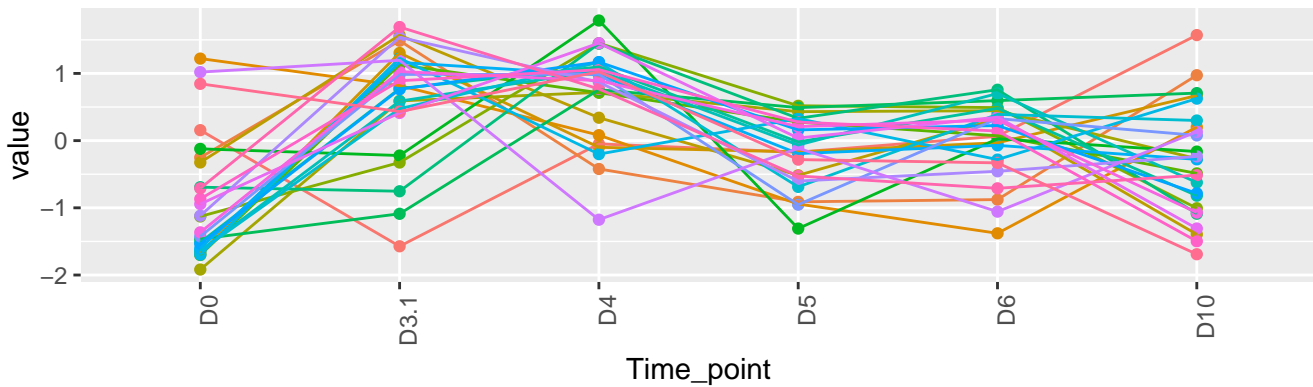
27 genes – KO-cluster-207-standardized



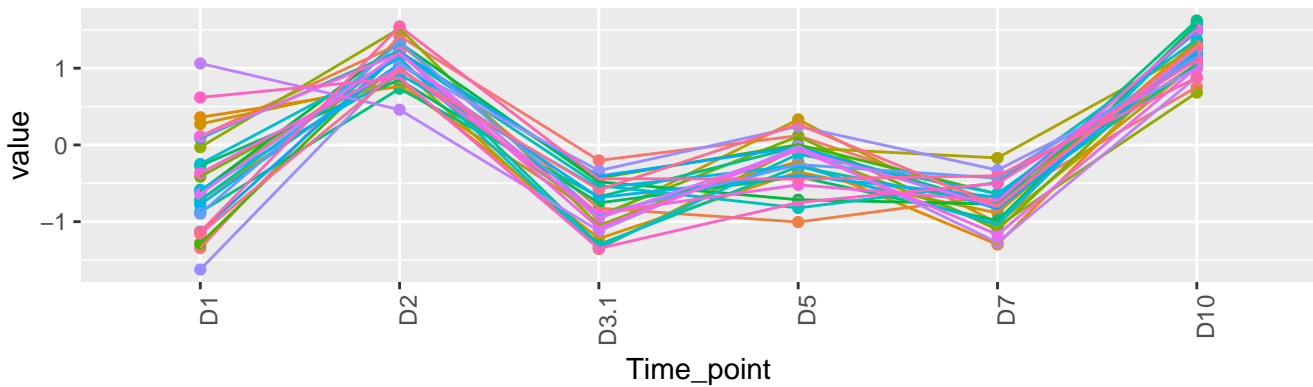
27 genes – WT-cluster-206-standardized



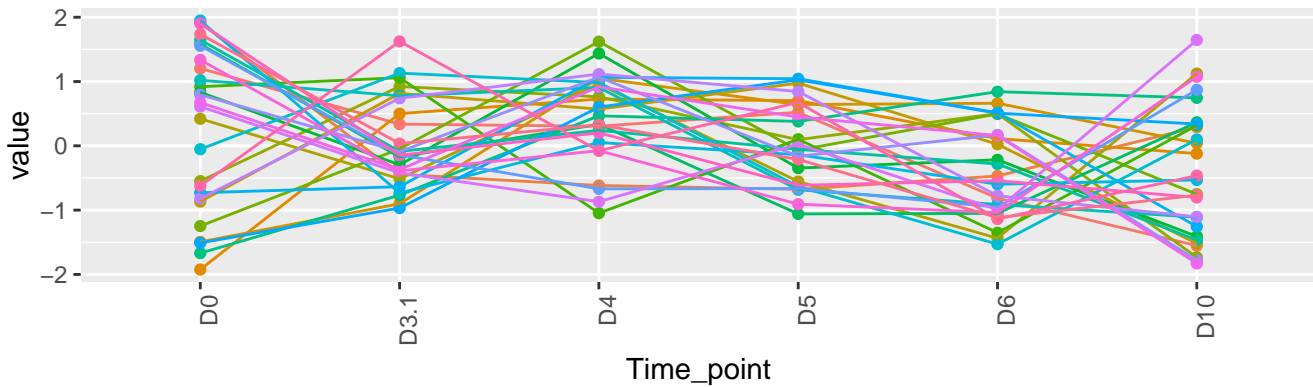
25 genes – KO-cluster-206-standardized



27 genes – WT-cluster-205-standardized

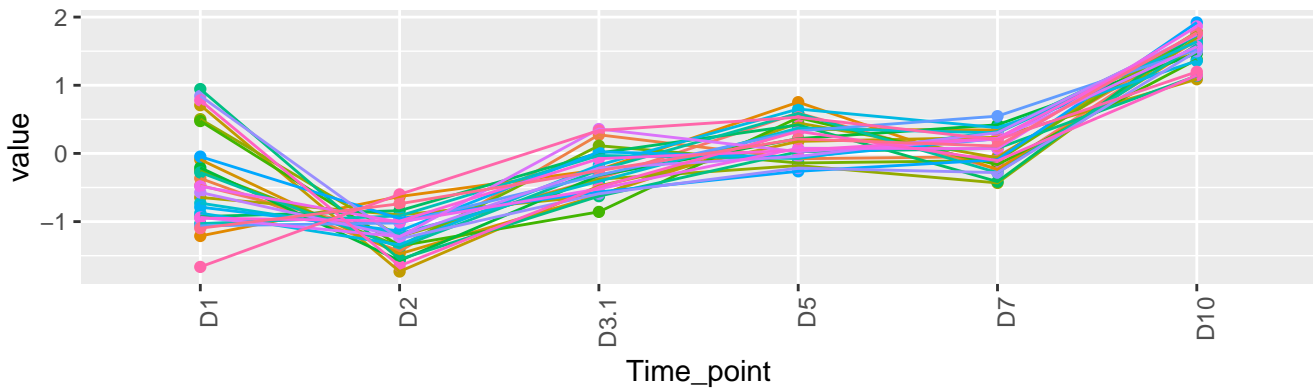


27 genes – KO-cluster-205-standardized

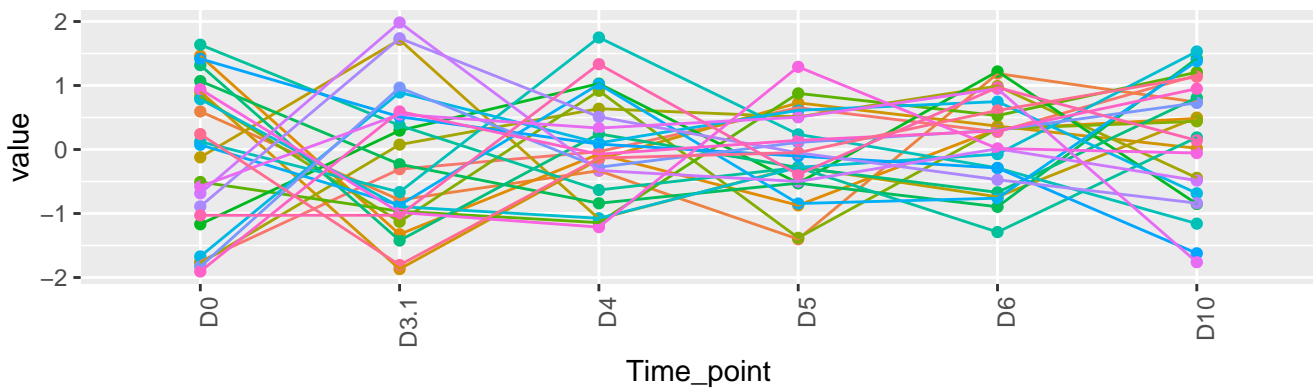




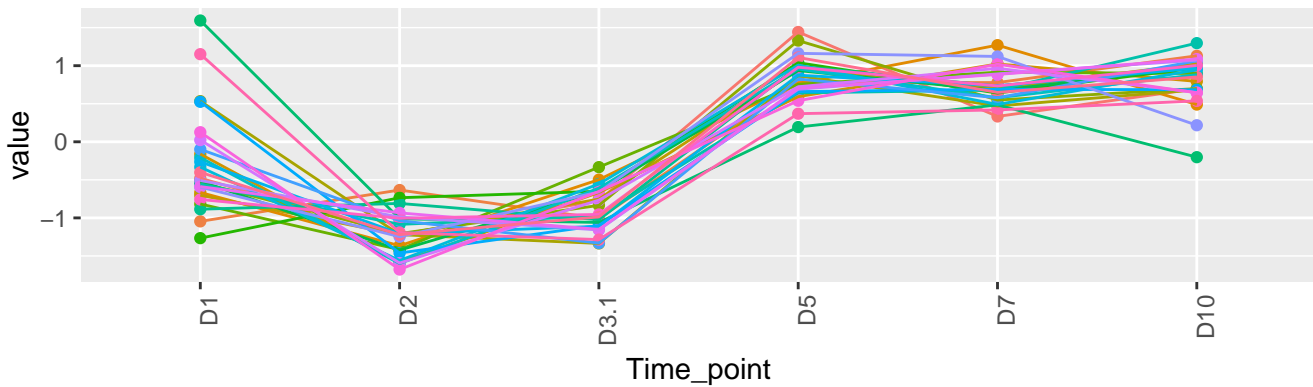
27 genes – WT-cluster-204-standardized



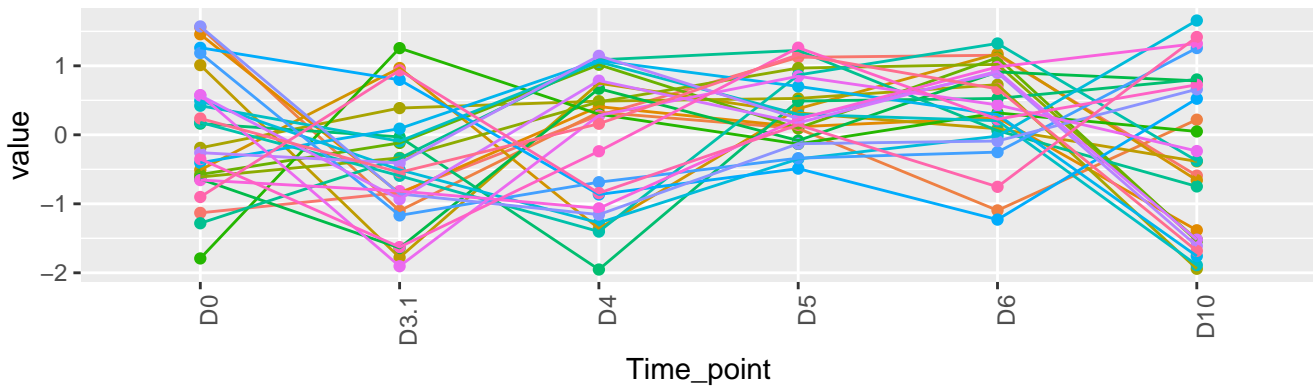
25 genes – KO-cluster-204-standardized



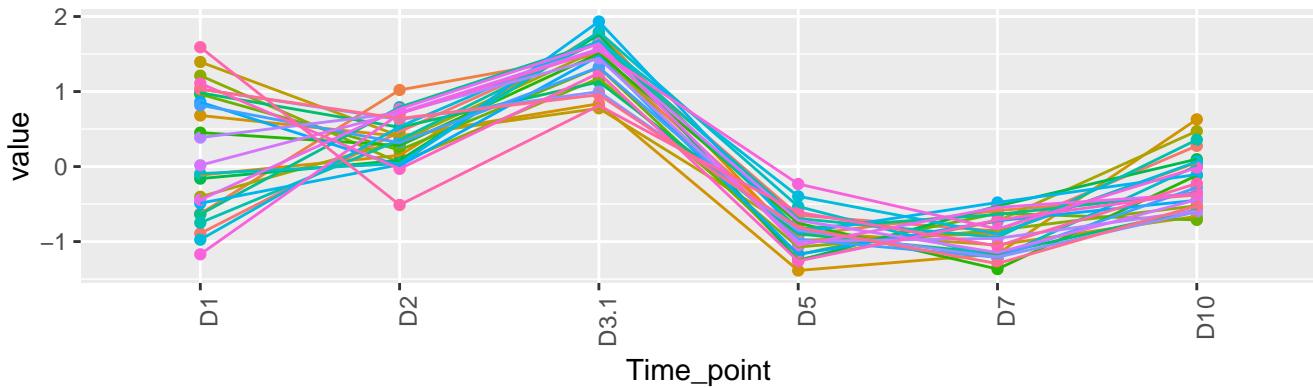
26 genes – WT-cluster-203-standardized



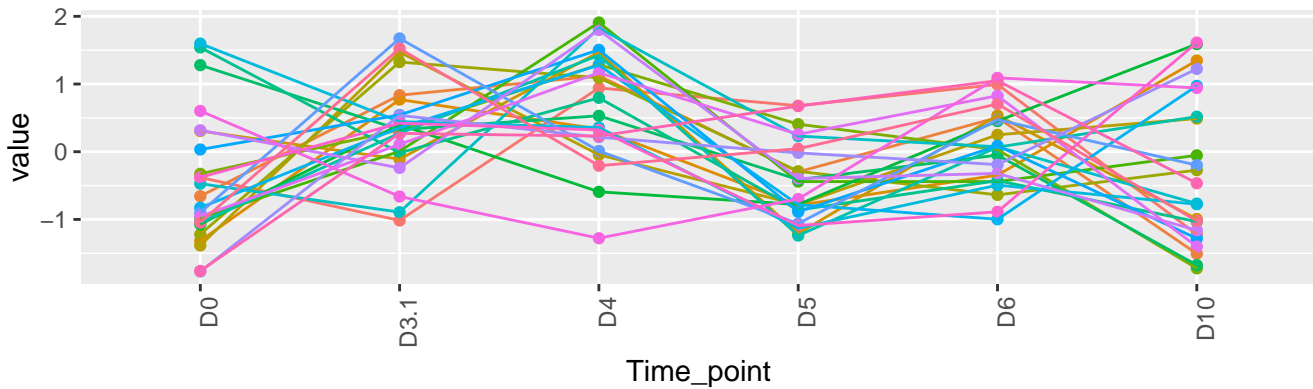
26 genes – KO-cluster-203-standardized



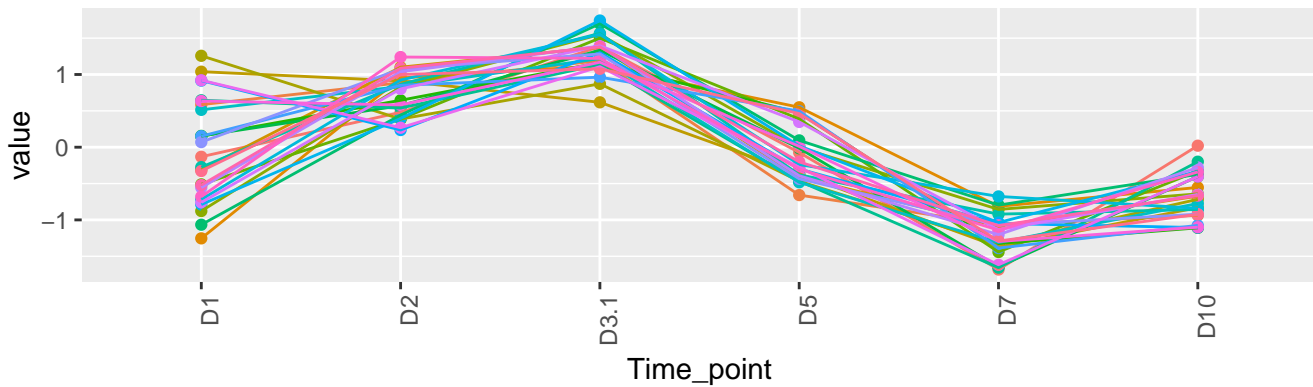
26 genes – WT-cluster-202-standardized



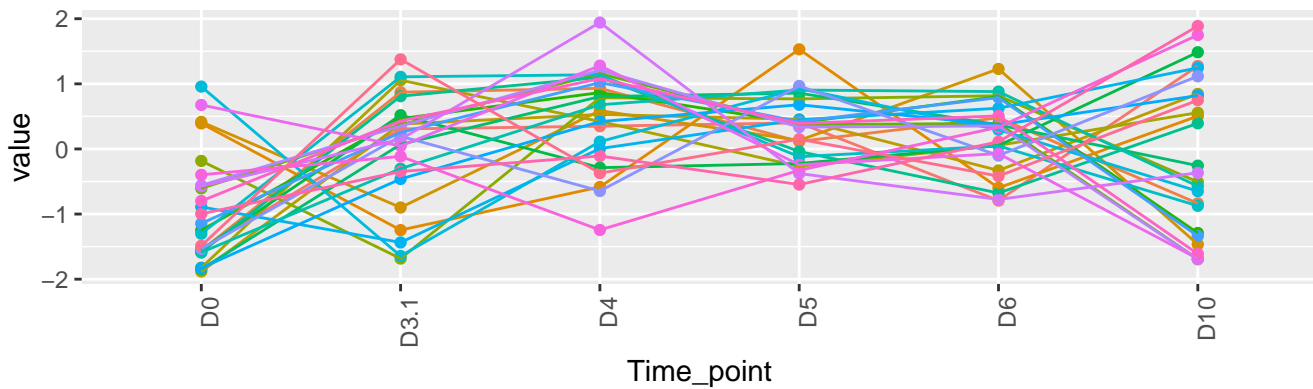
24 genes – KO-cluster-202-standardized



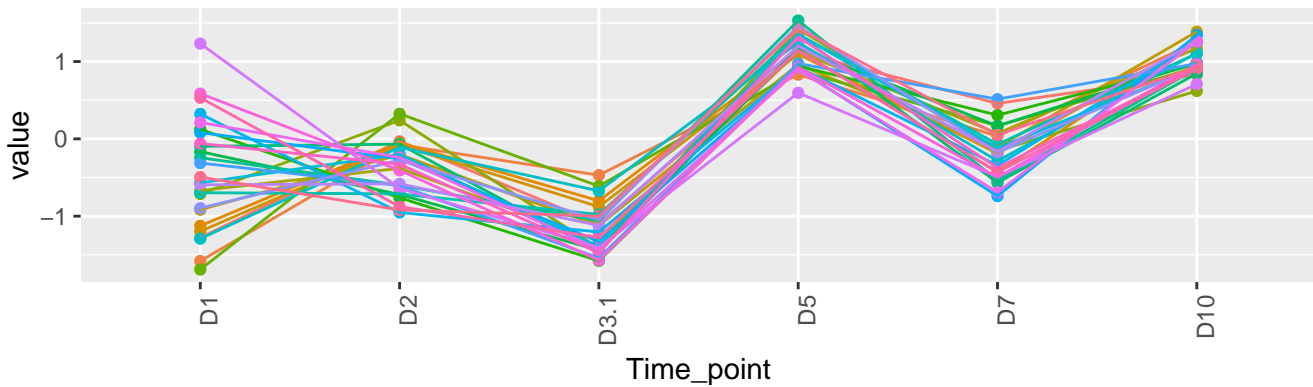
26 genes – WT-cluster-201-standardized



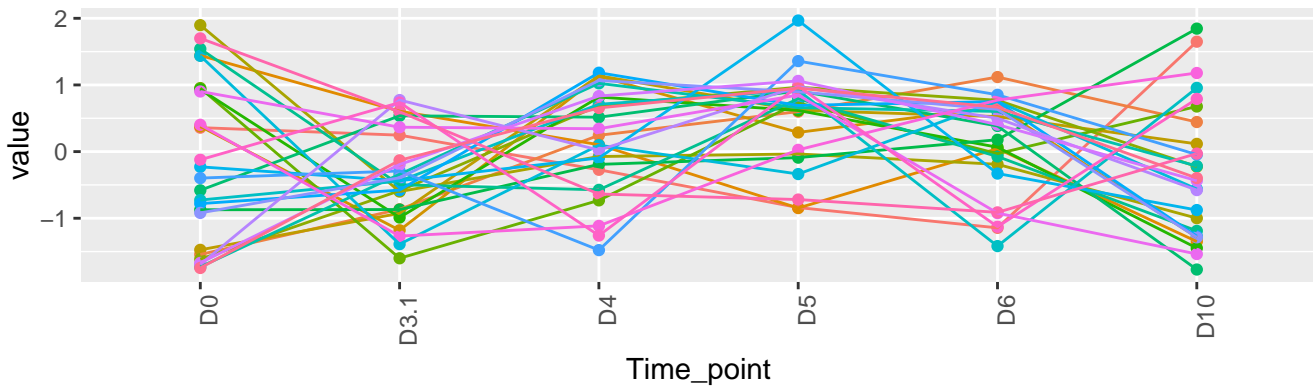
26 genes – KO-cluster-201-standardized



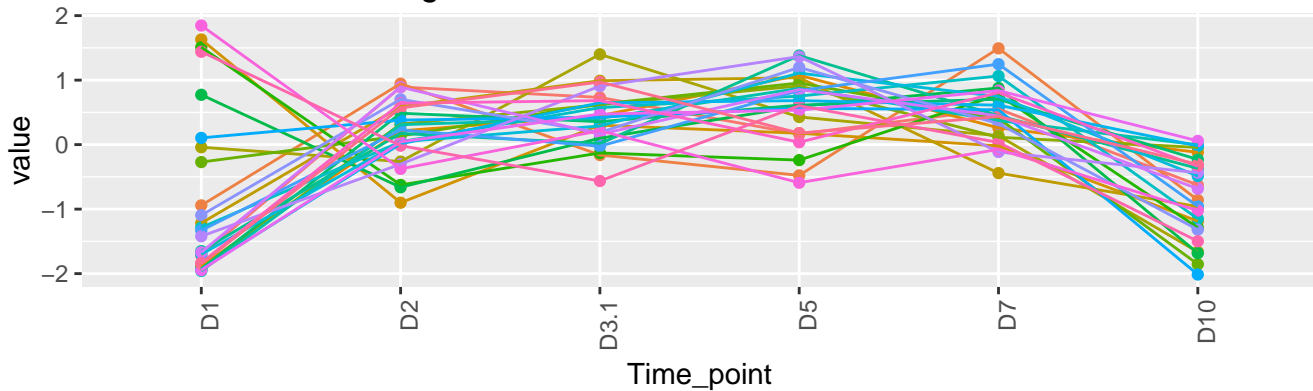
26 genes – WT-cluster-200-standardized



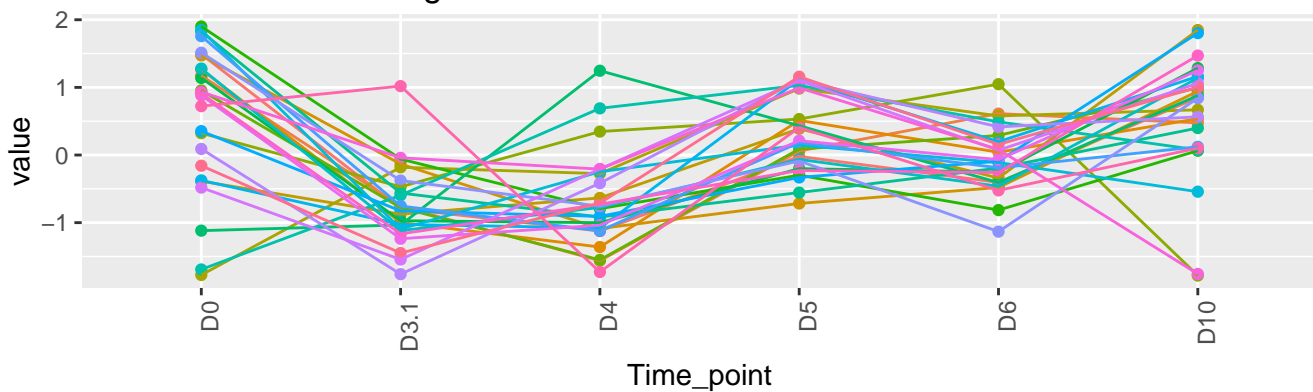
26 genes – KO-cluster-200-standardized



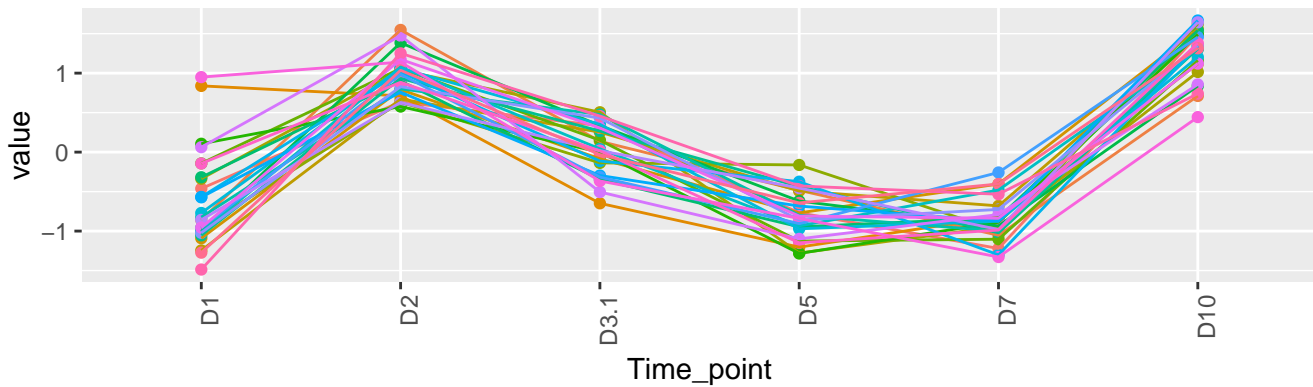
26 genes – WT-cluster-199-standardized



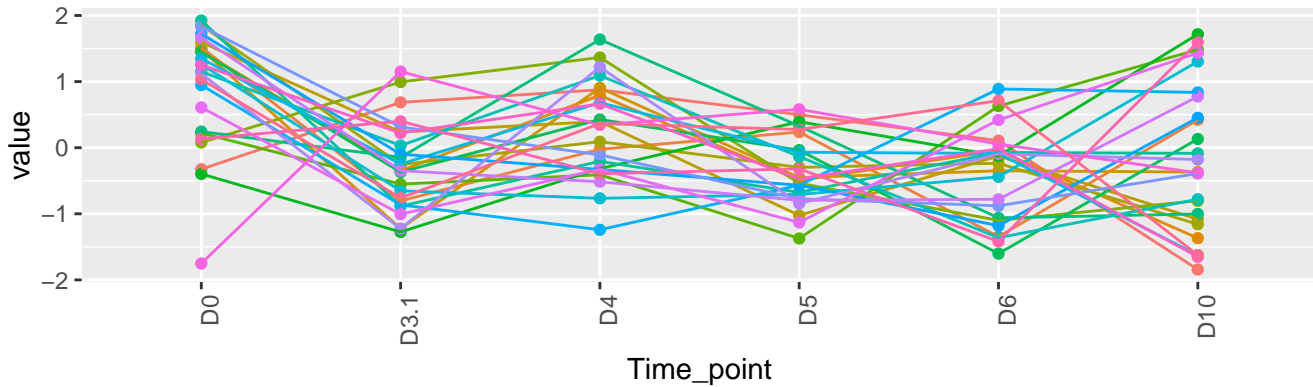
26 genes – KO-cluster-199-standardized



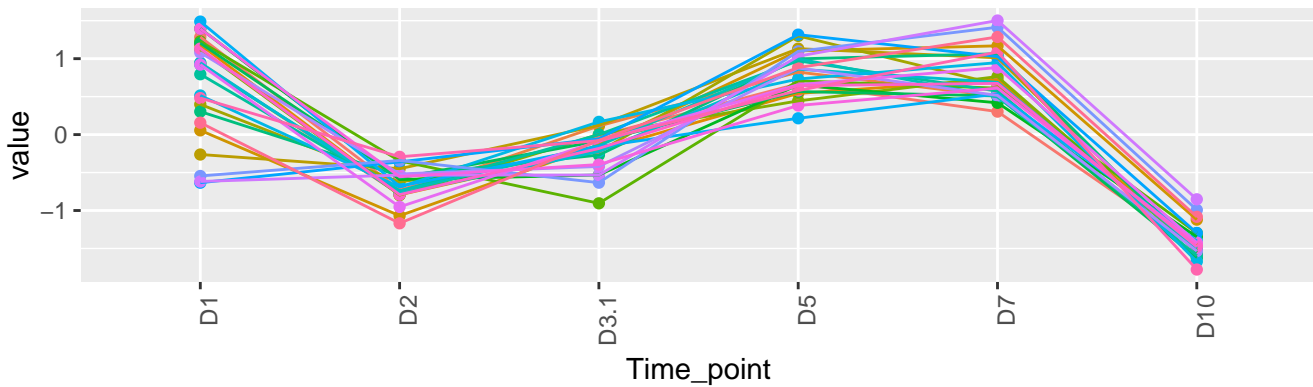
26 genes – WT-cluster-198-standardized



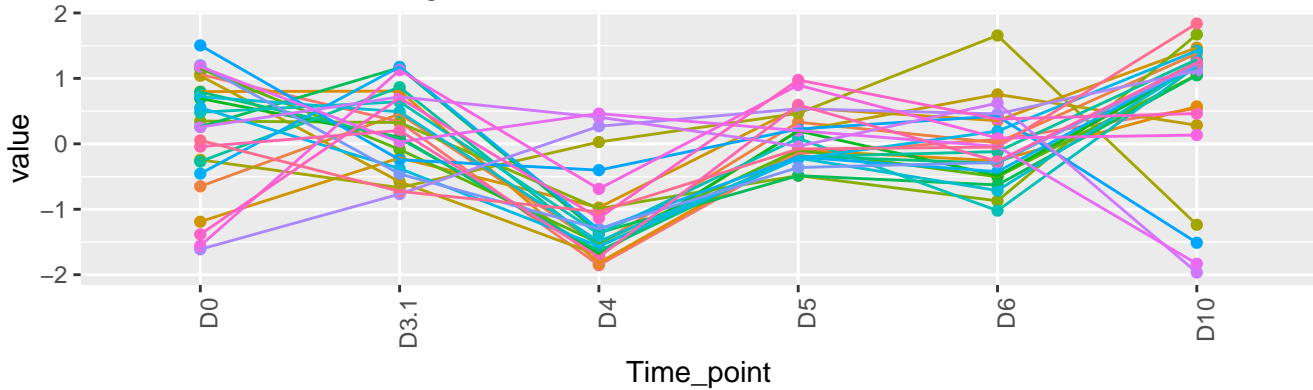
25 genes – KO-cluster-198-standardized



25 genes – WT-cluster-197-standardized

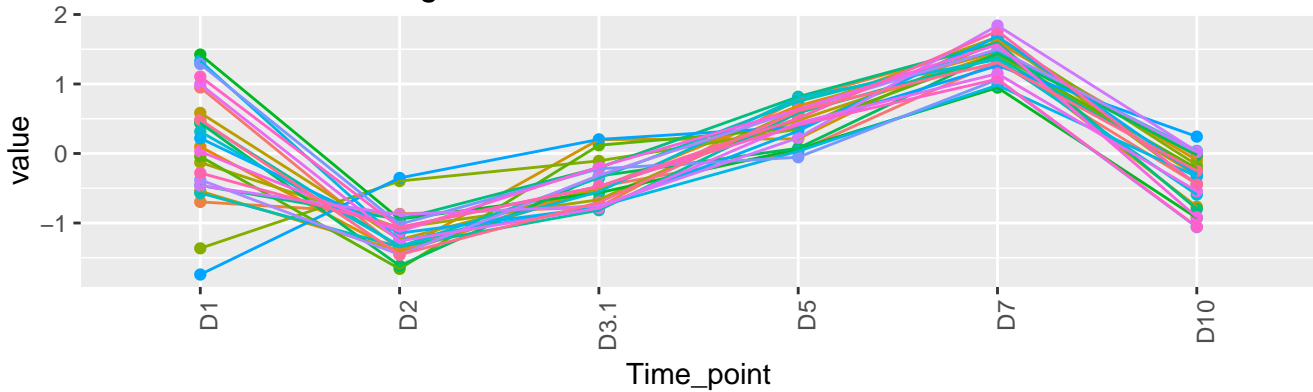


25 genes – KO-cluster-197-standardized

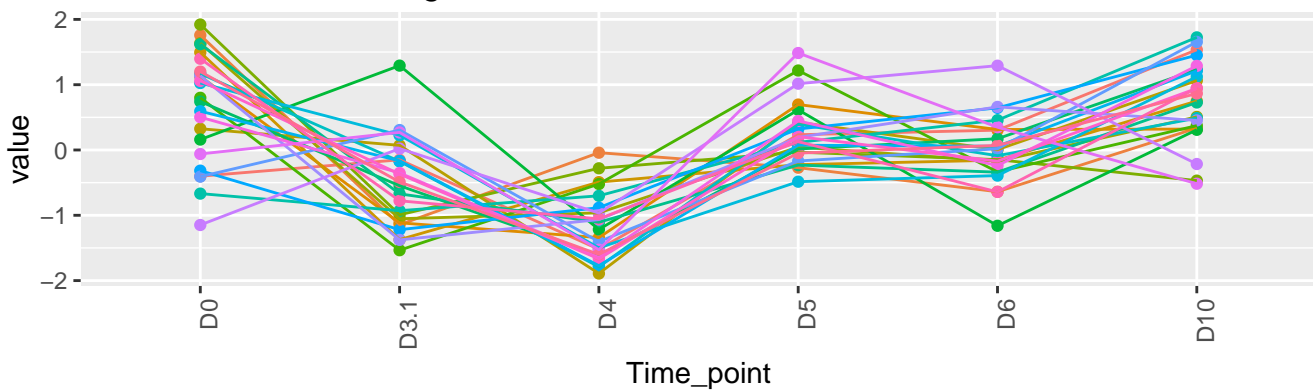




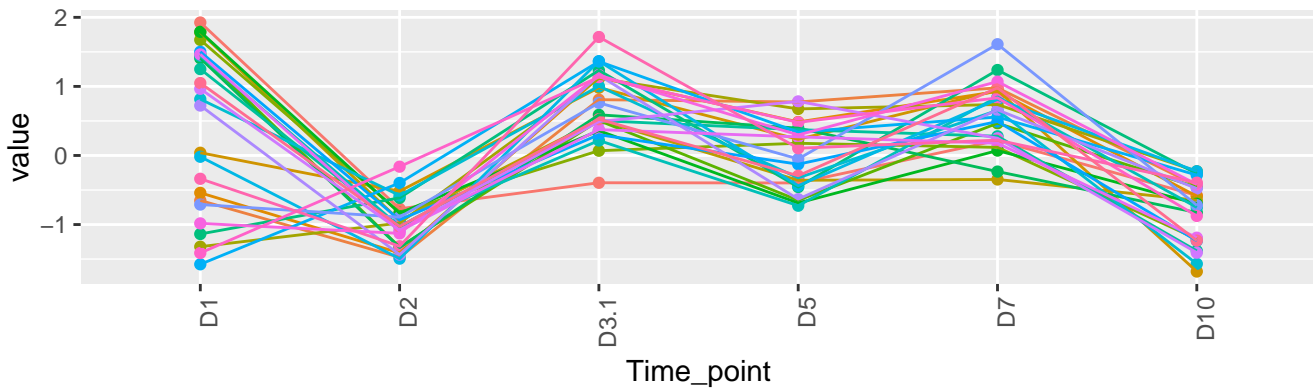
25 genes – WT-cluster-196-standardized



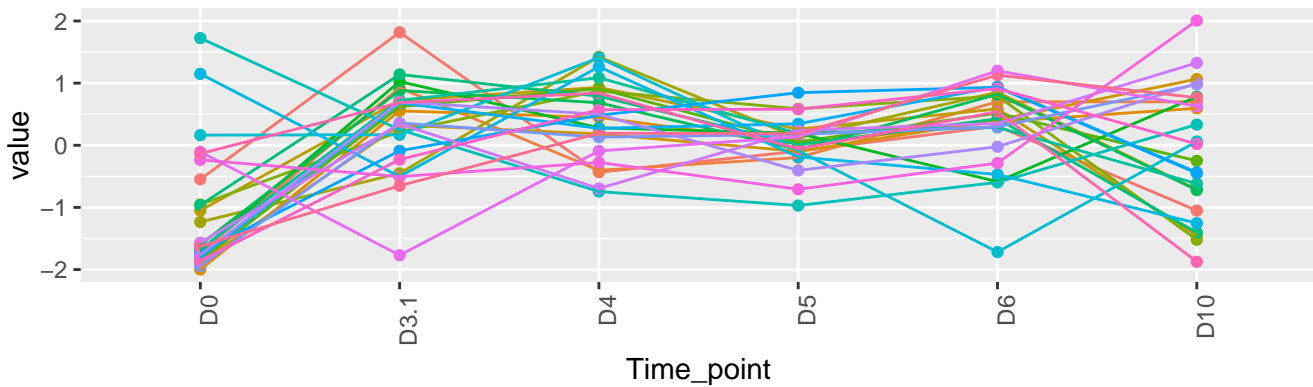
24 genes – KO-cluster-196-standardized



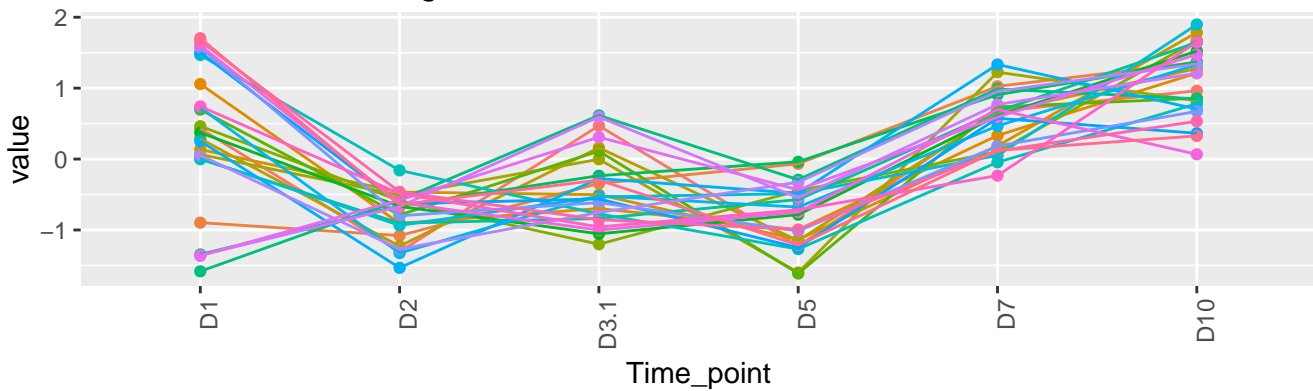
25 genes – WT-cluster-195-standardized



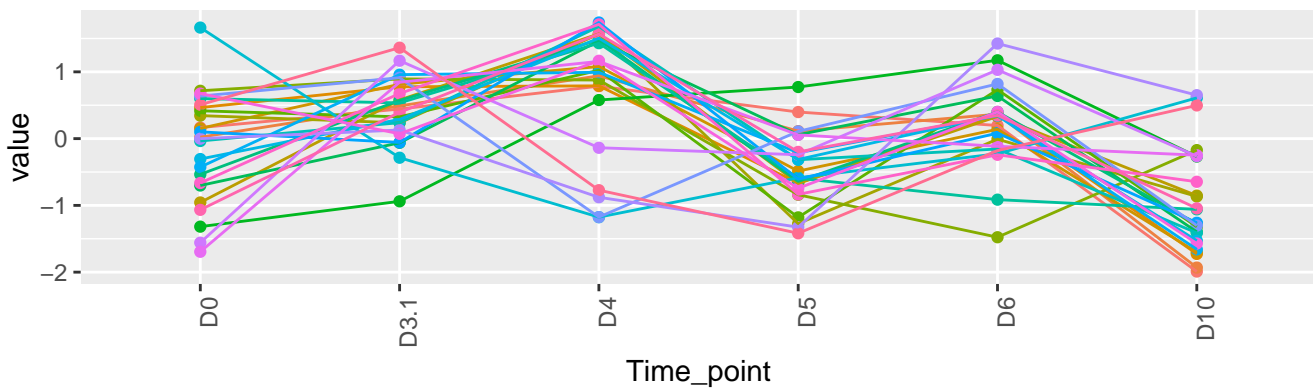
25 genes – KO-cluster-195-standardized



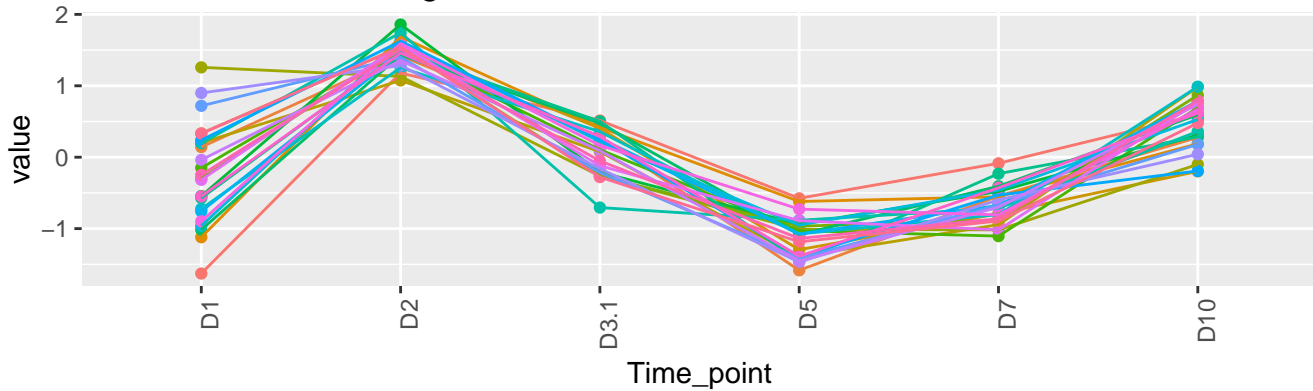
25 genes – WT-cluster-194-standardized



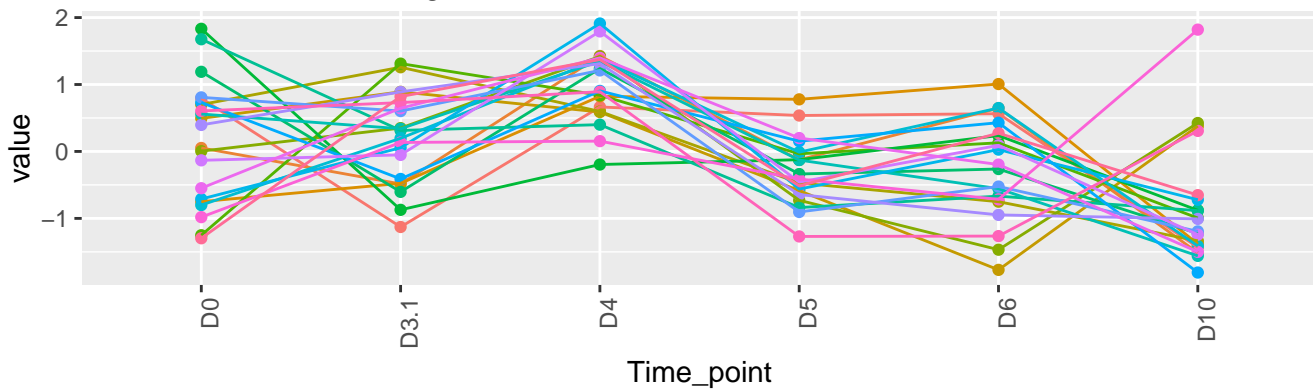
25 genes – KO-cluster-194-standardized



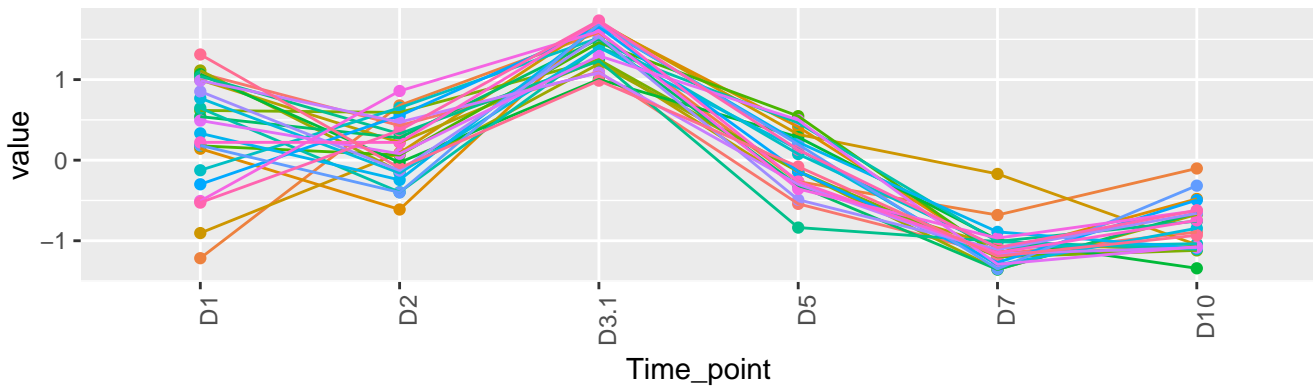
24 genes – WT-cluster-193-standardized



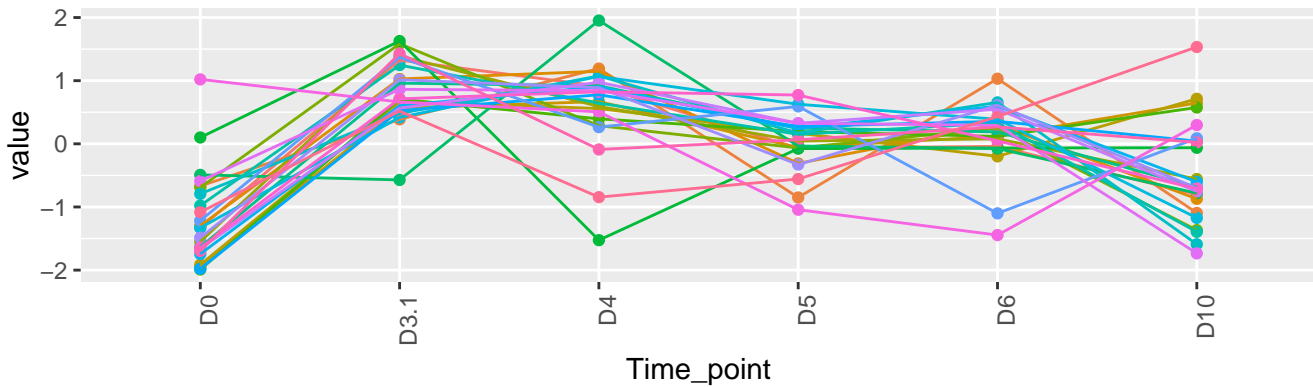
21 genes – KO-cluster-193-standardized



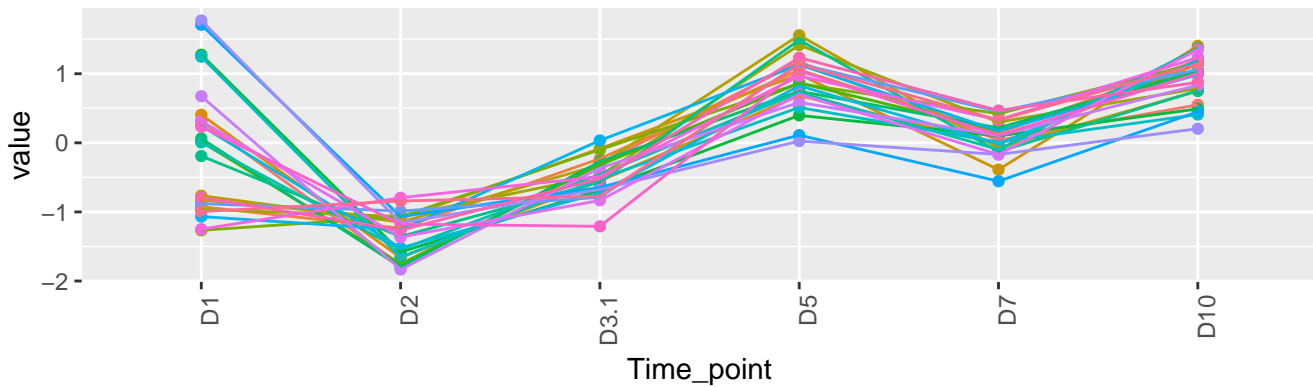
24 genes – WT-cluster-192-standardized



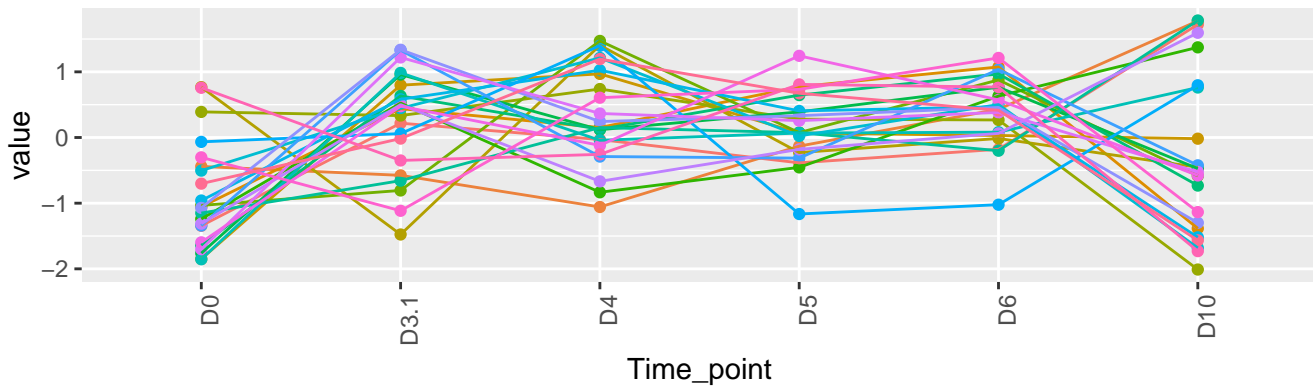
24 genes – KO-cluster-192-standardized



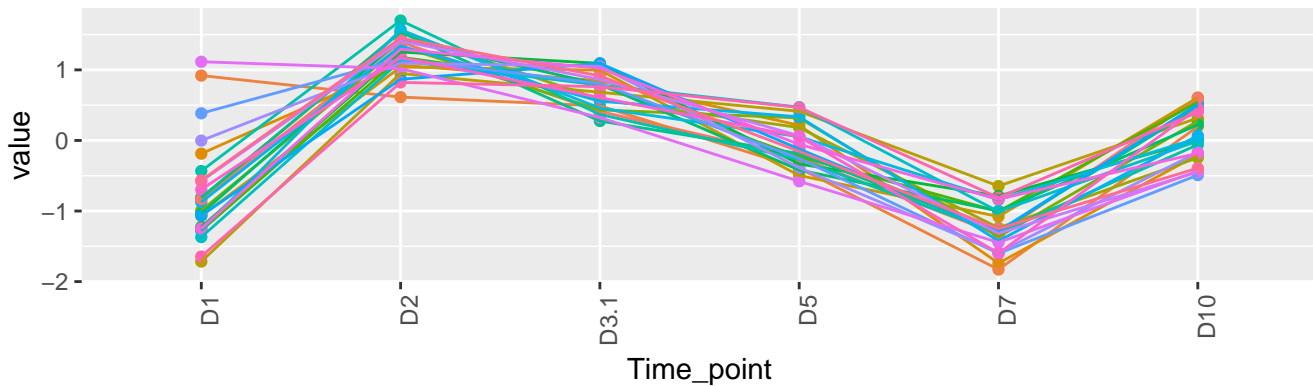
24 genes – WT-cluster-191-standardized



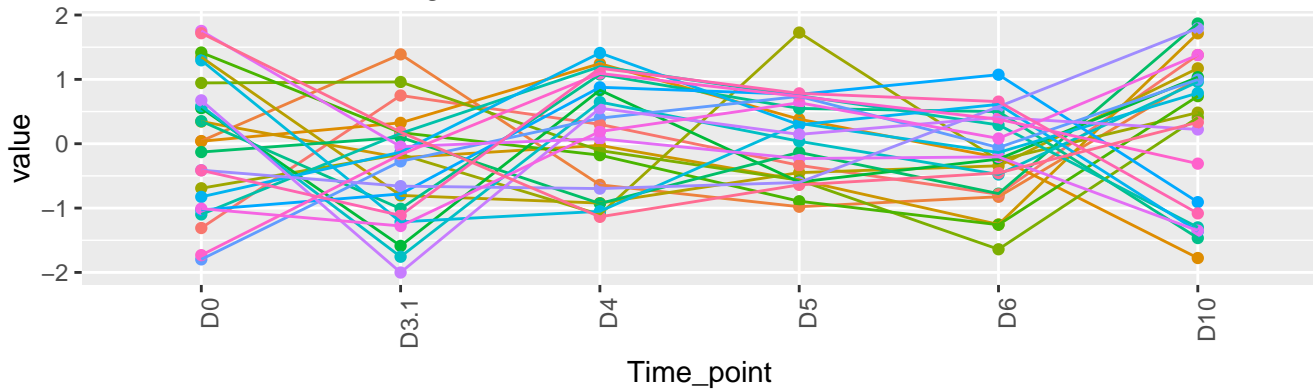
23 genes – KO-cluster-191-standardized



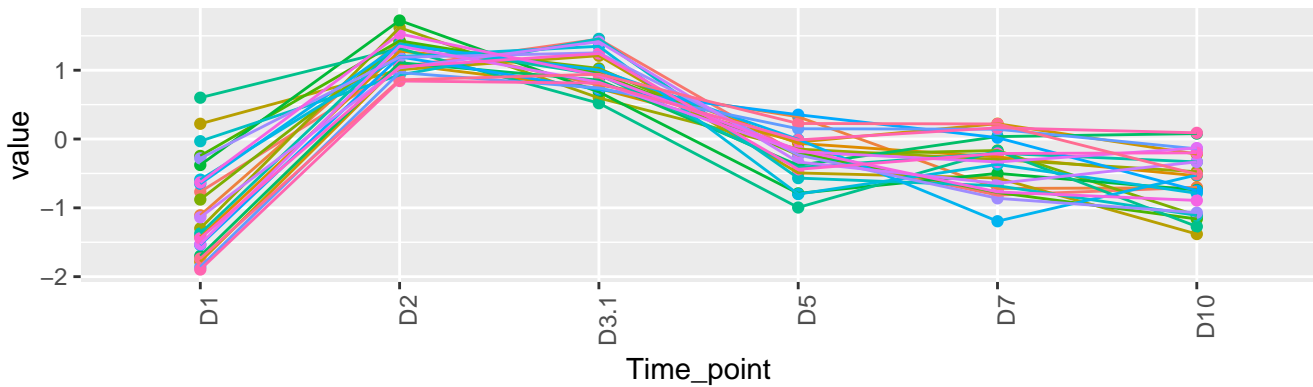
24 genes – WT-cluster-190-standardized



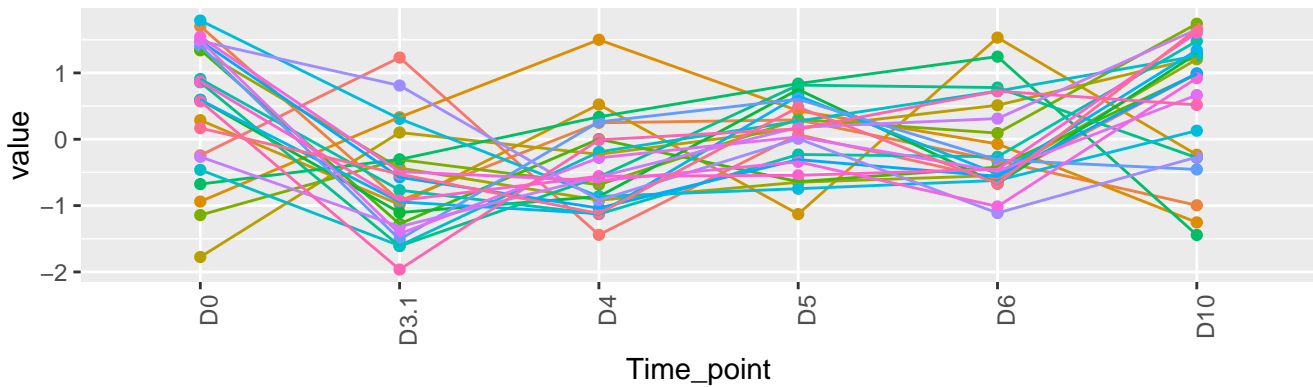
24 genes – KO-cluster-190-standardized



24 genes – WT-cluster-189-standardized

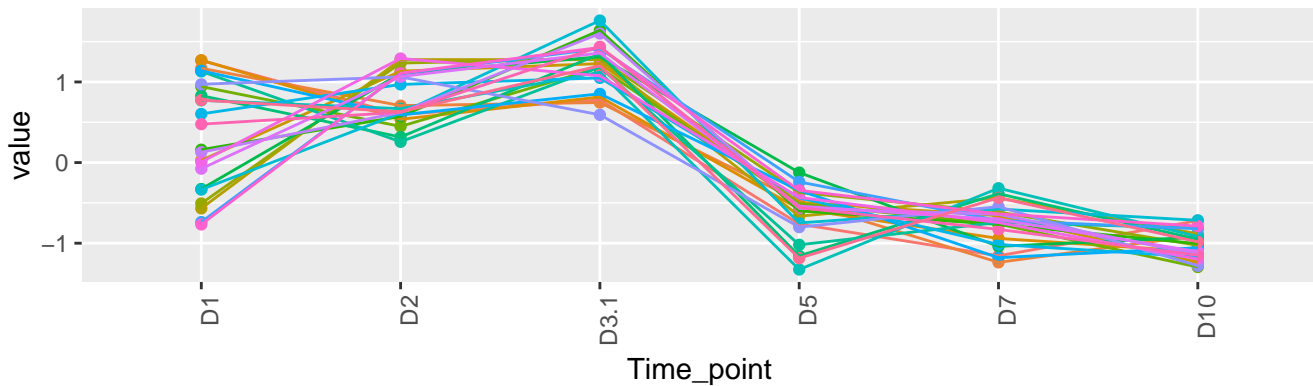


24 genes – KO-cluster-189-standardized

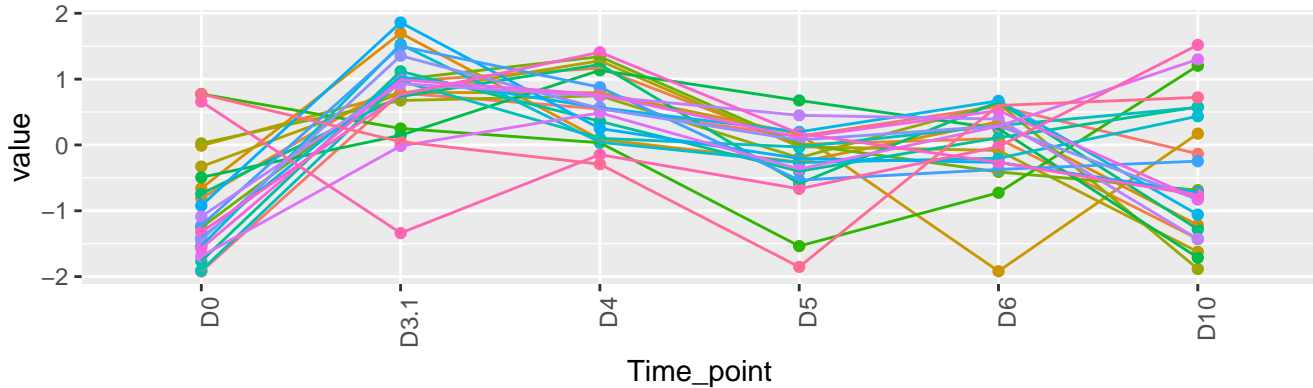




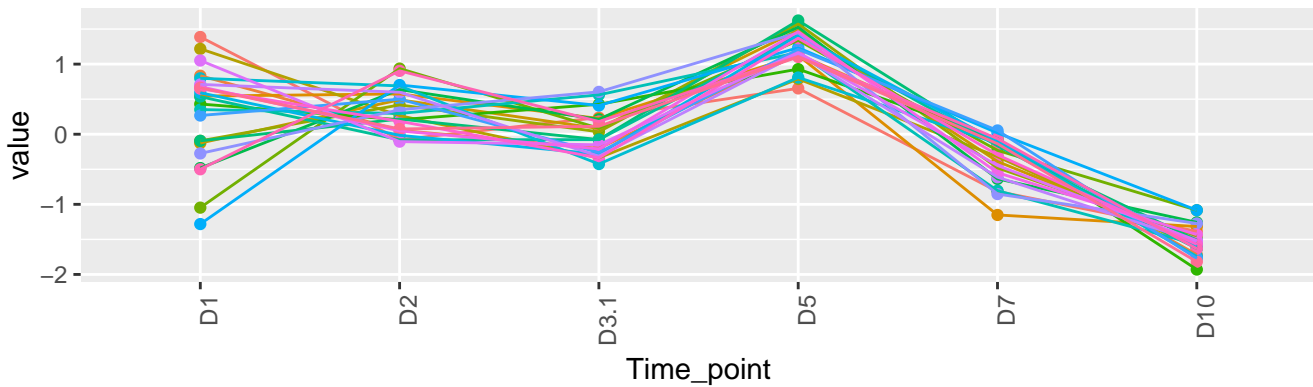
23 genes – WT-cluster-188-standardized



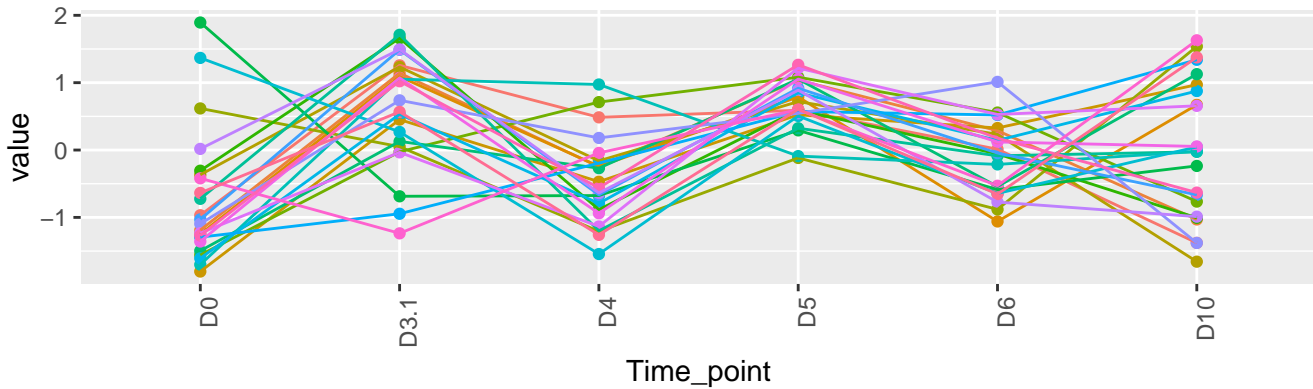
23 genes – KO-cluster-188-standardized



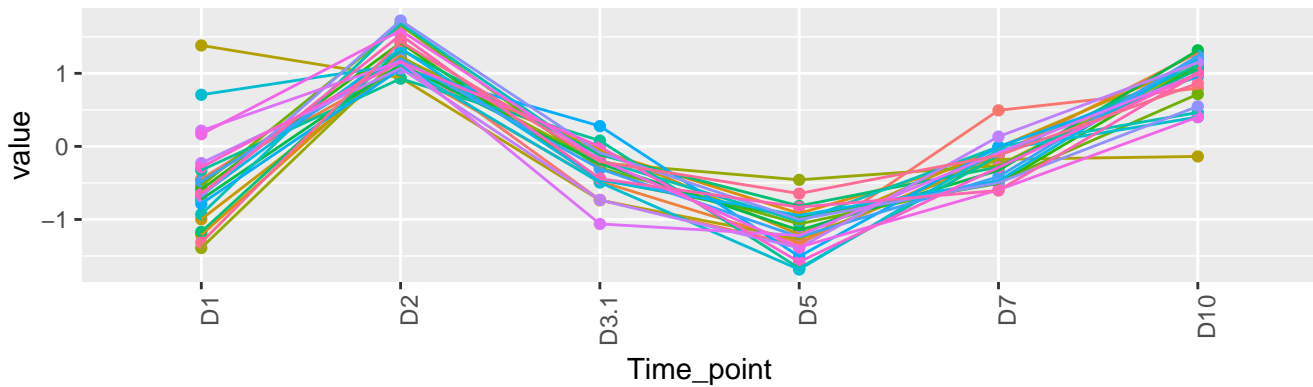
23 genes – WT-cluster-187-standardized



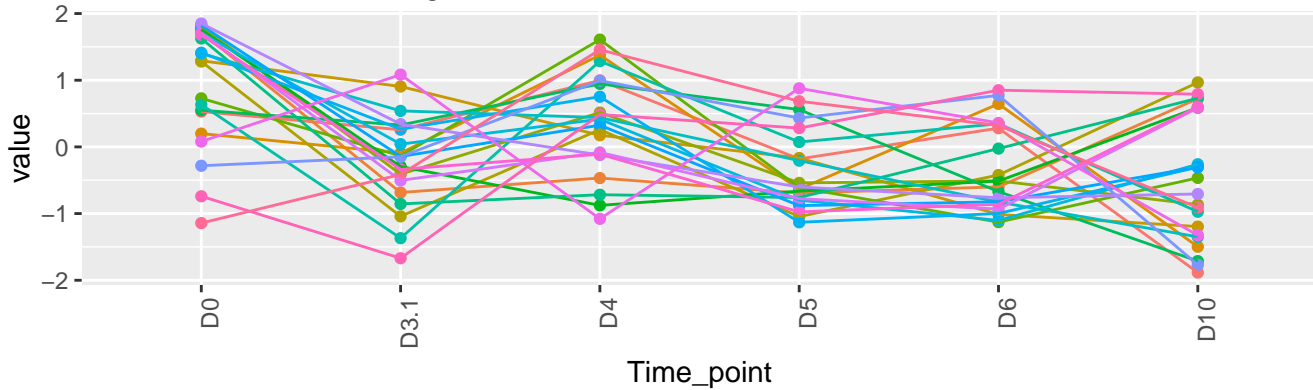
23 genes – KO-cluster-187-standardized



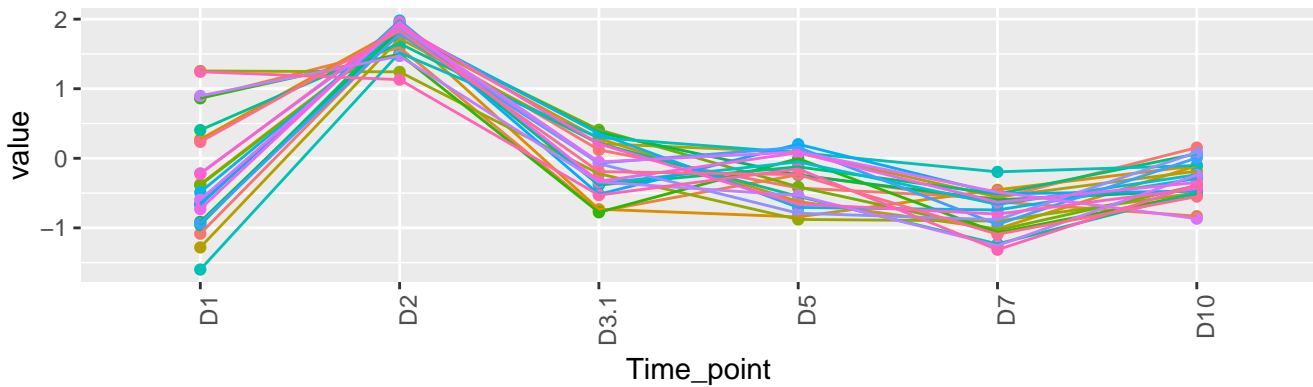
23 genes – WT-cluster-186-standardized



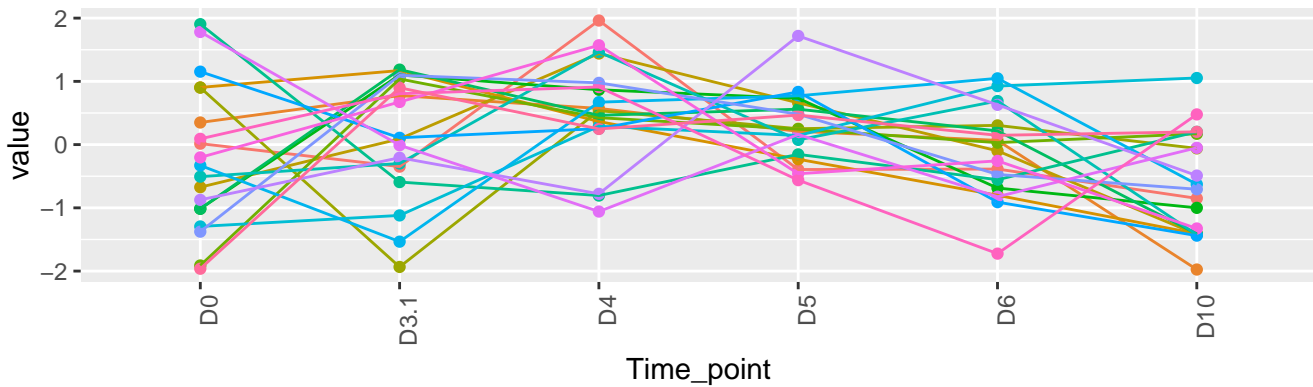
22 genes – KO-cluster-186-standardized



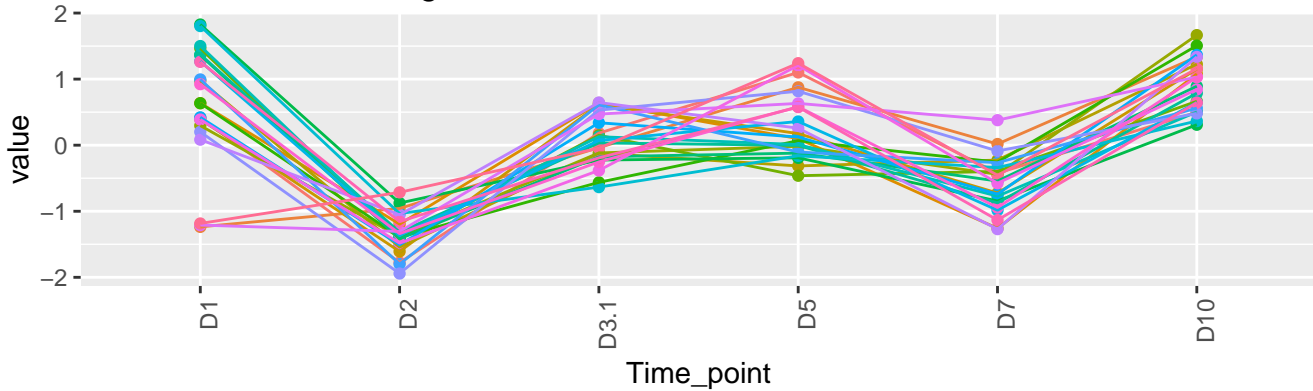
23 genes – WT-cluster-185-standardized



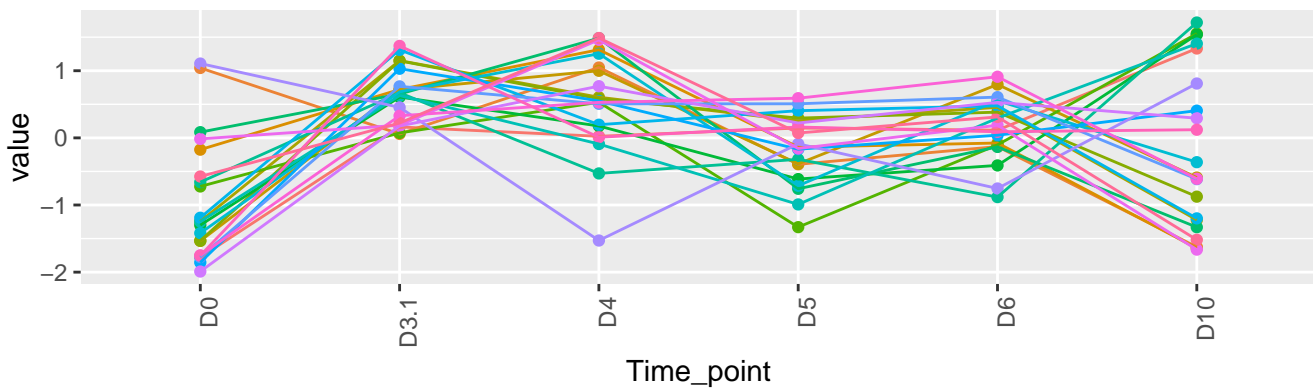
19 genes – KO-cluster-185-standardized



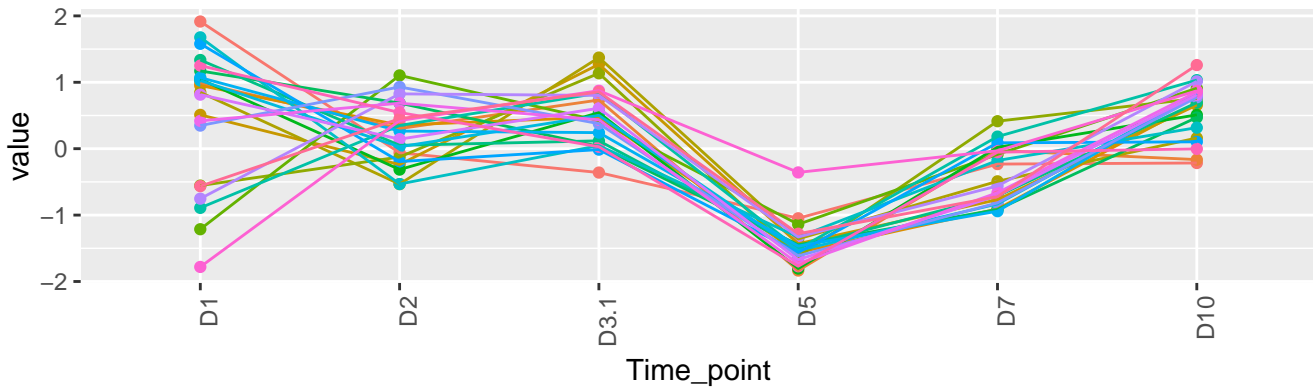
23 genes – WT-cluster-184-standardized



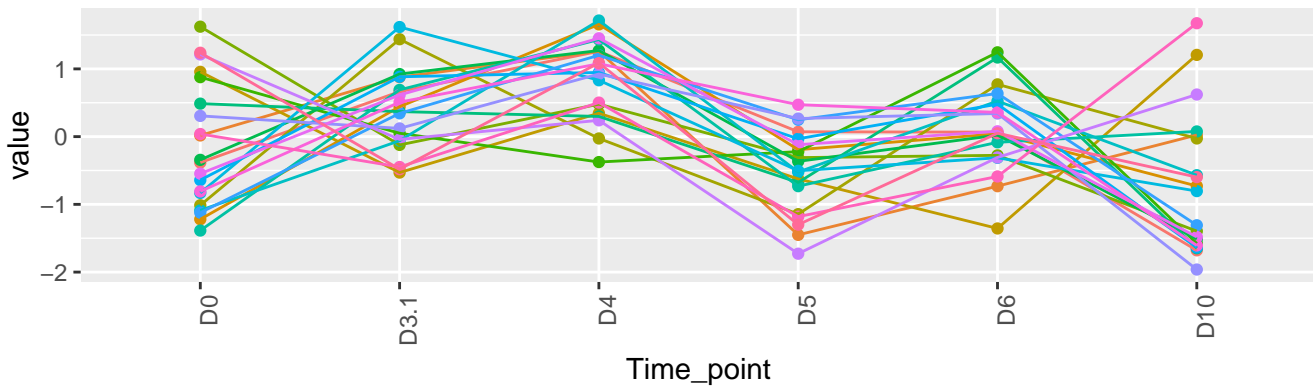
21 genes – KO-cluster-184-standardized



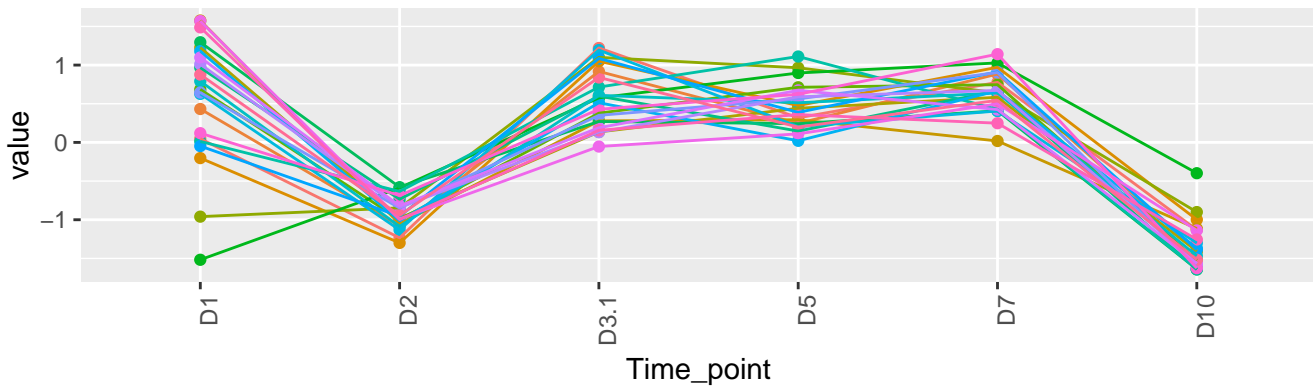
22 genes – WT-cluster-183-standardized



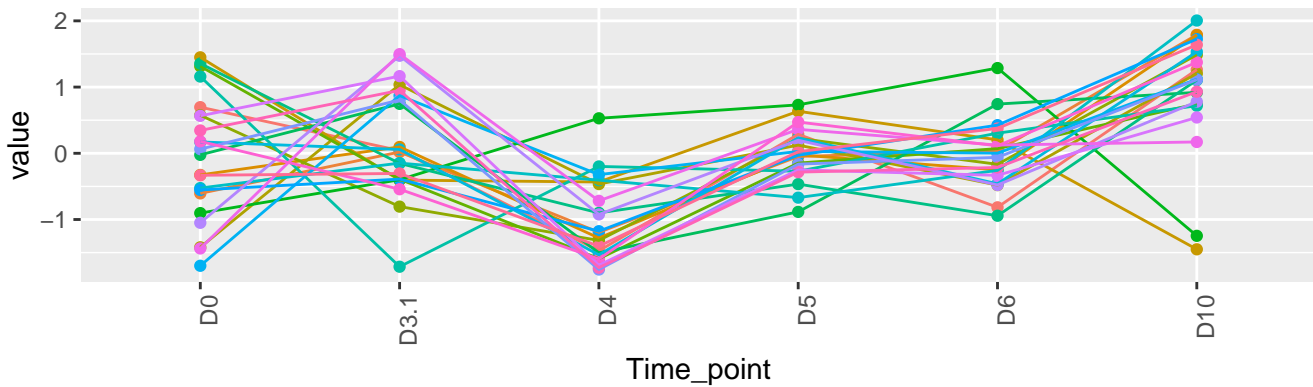
20 genes – KO-cluster-183-standardized



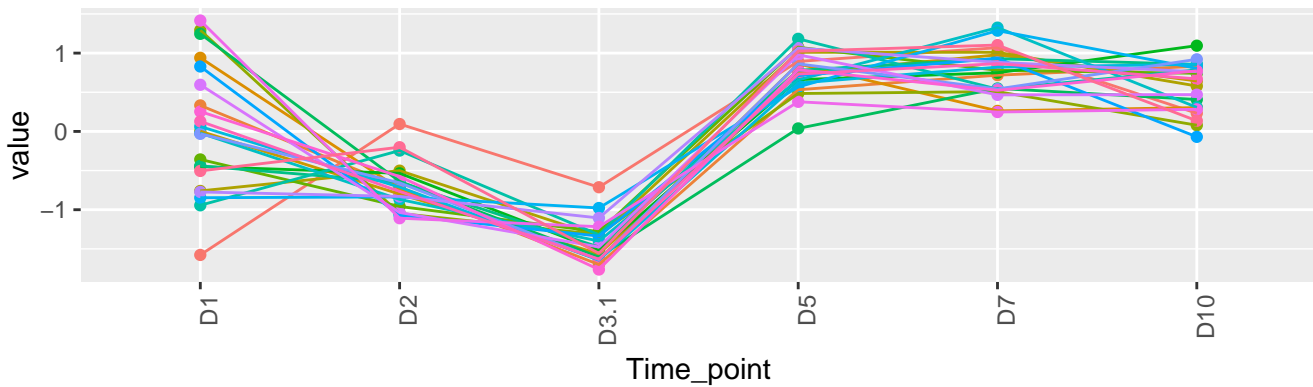
22 genes – WT-cluster-182-standardized



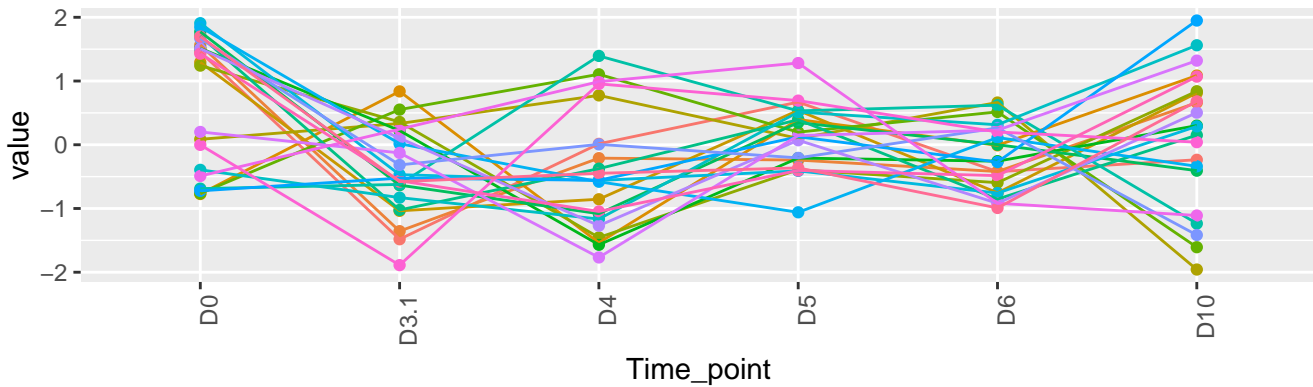
22 genes – KO-cluster-182-standardized



22 genes – WT-cluster-181-standardized

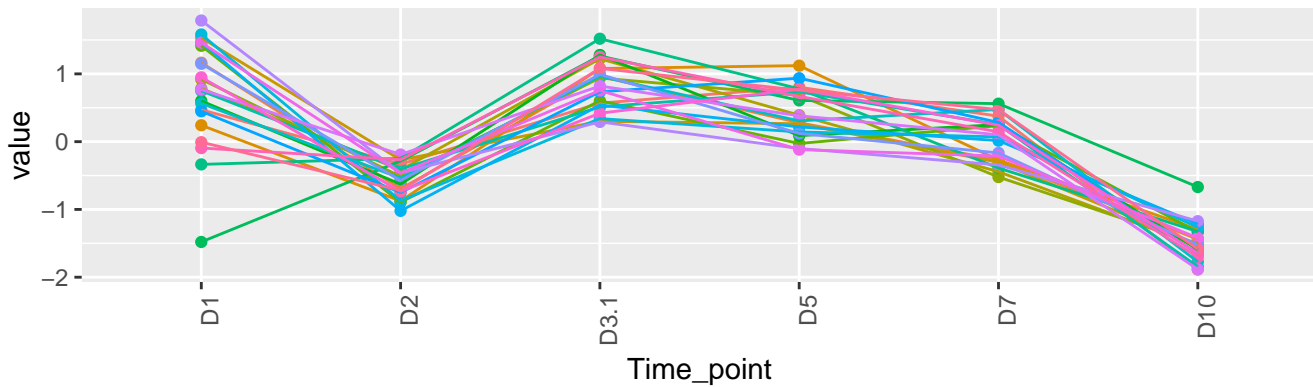


22 genes – KO-cluster-181-standardized

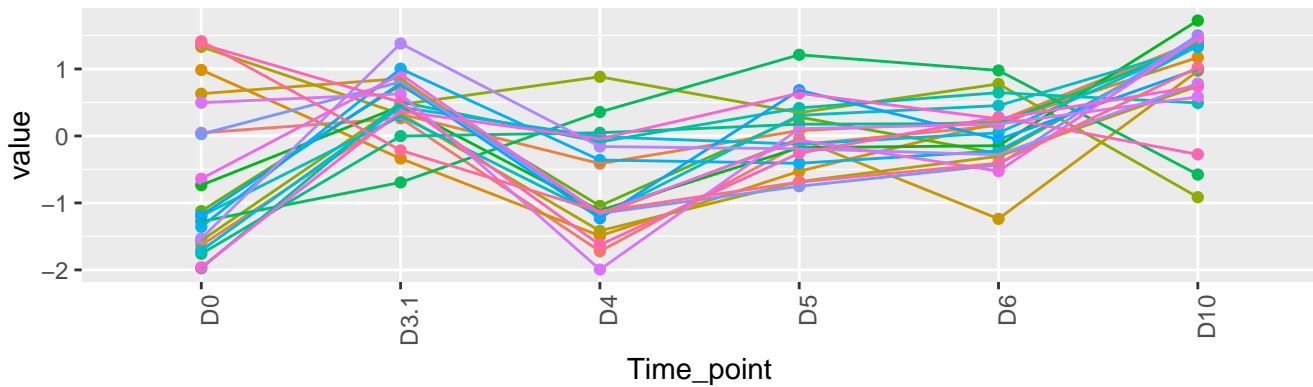




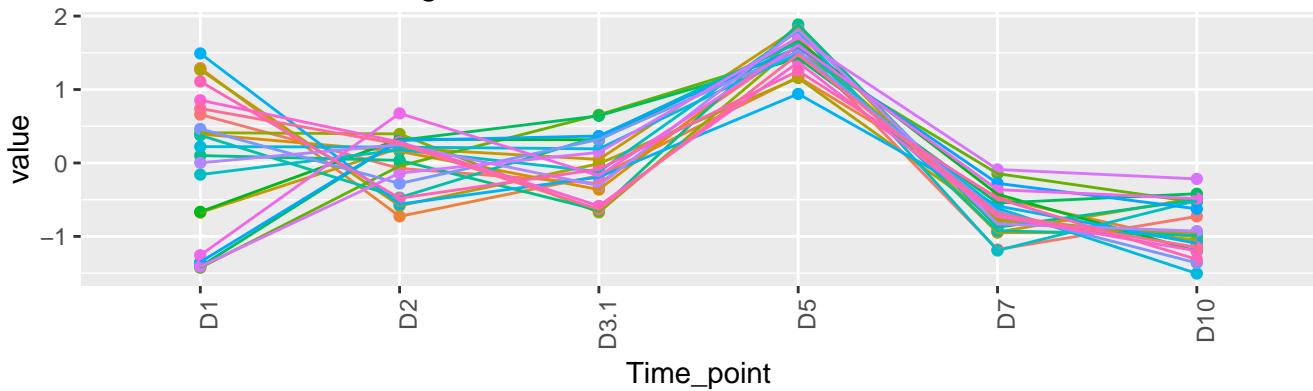
22 genes – WT-cluster-180-standardized



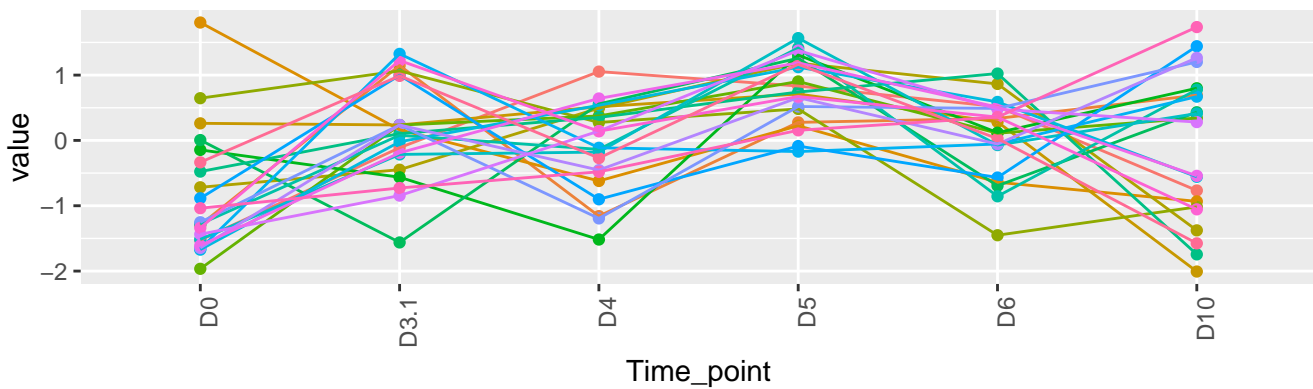
22 genes – KO-cluster-180-standardized



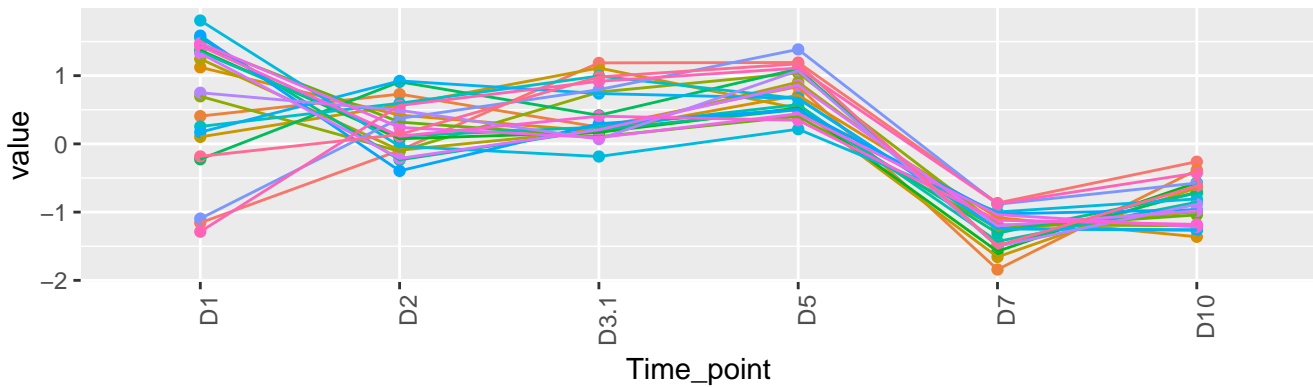
22 genes – WT-cluster-179-standardized



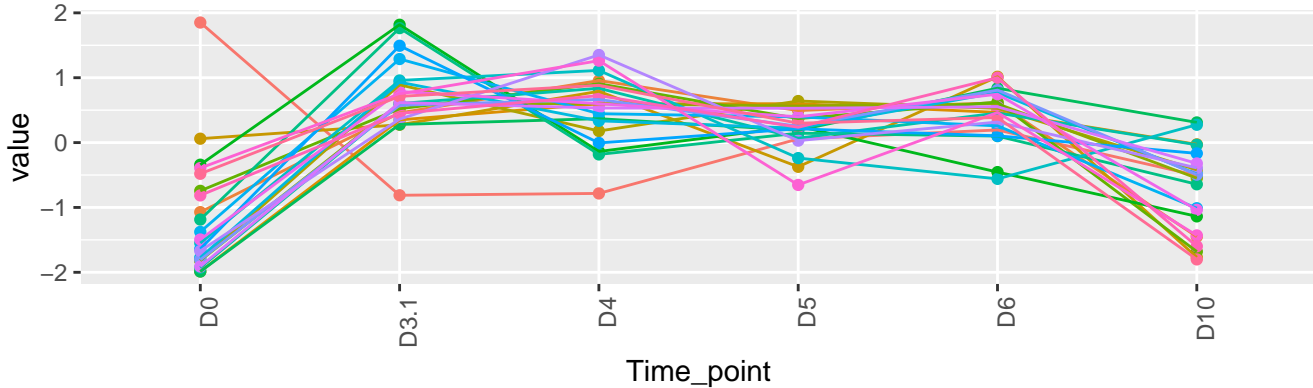
22 genes – KO-cluster-179-standardized



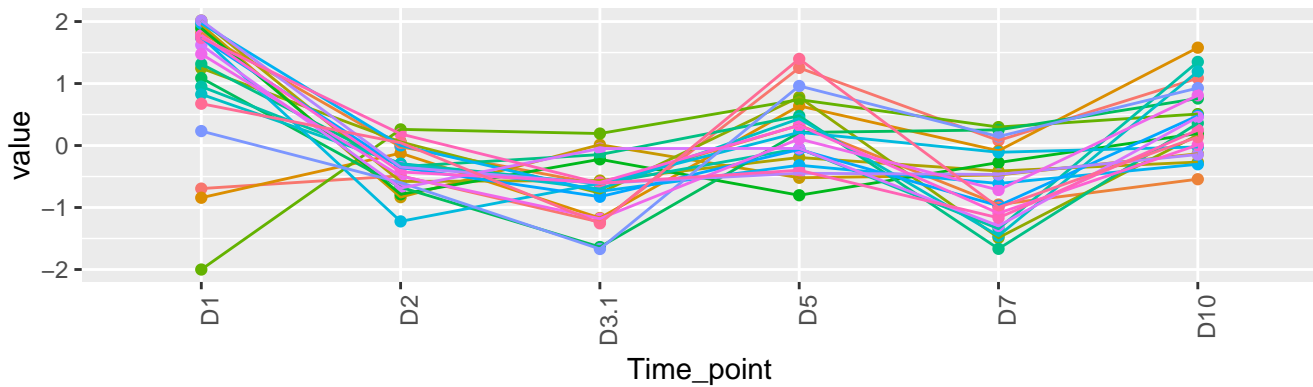
22 genes – WT-cluster-178-standardized



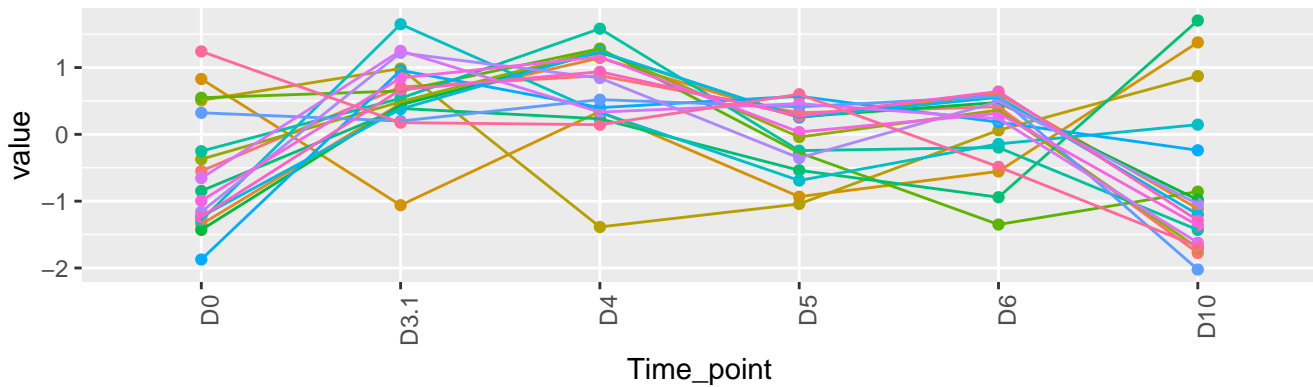
22 genes – KO-cluster-178-standardized



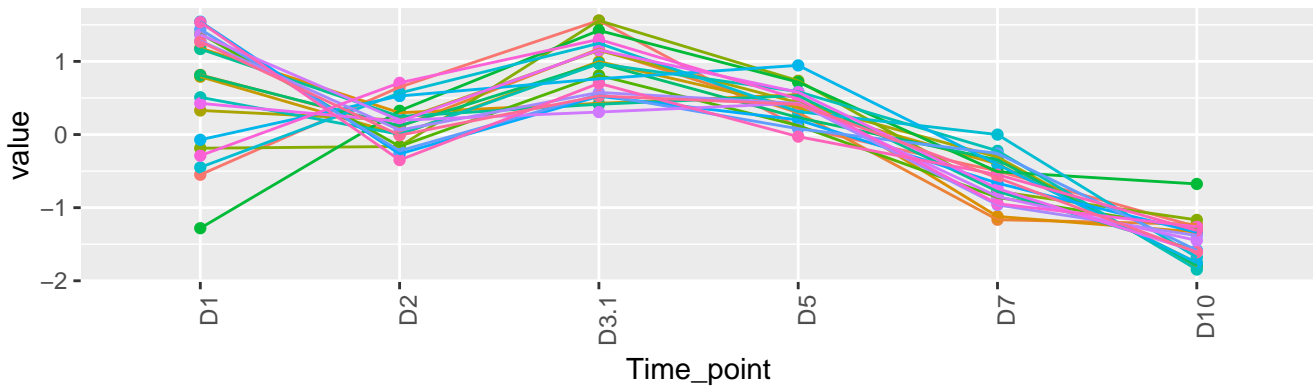
22 genes – WT-cluster-177-standardized



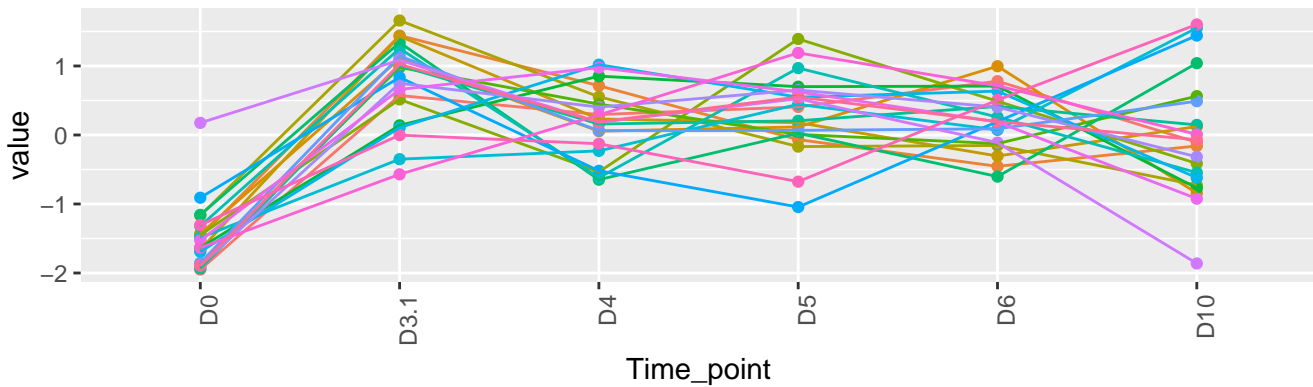
18 genes – KO-cluster-177-standardized



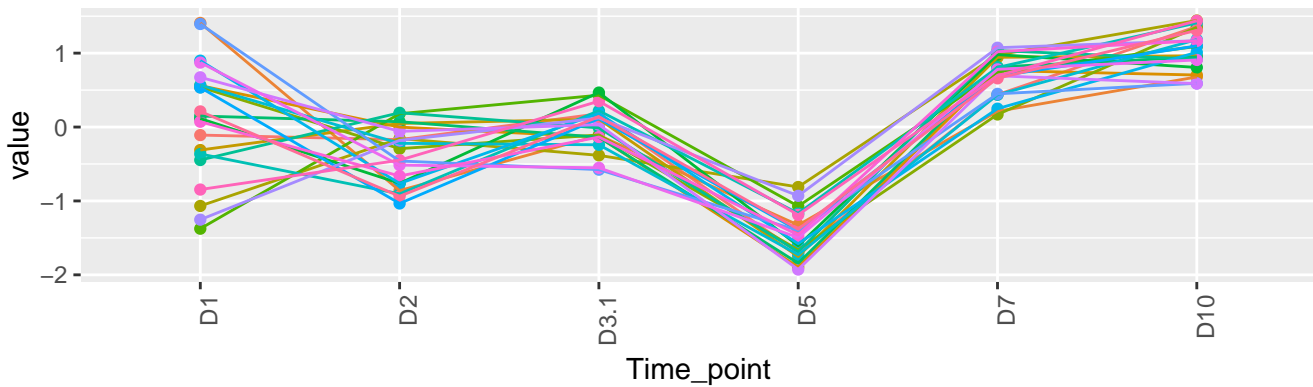
21 genes – WT-cluster-176-standardized



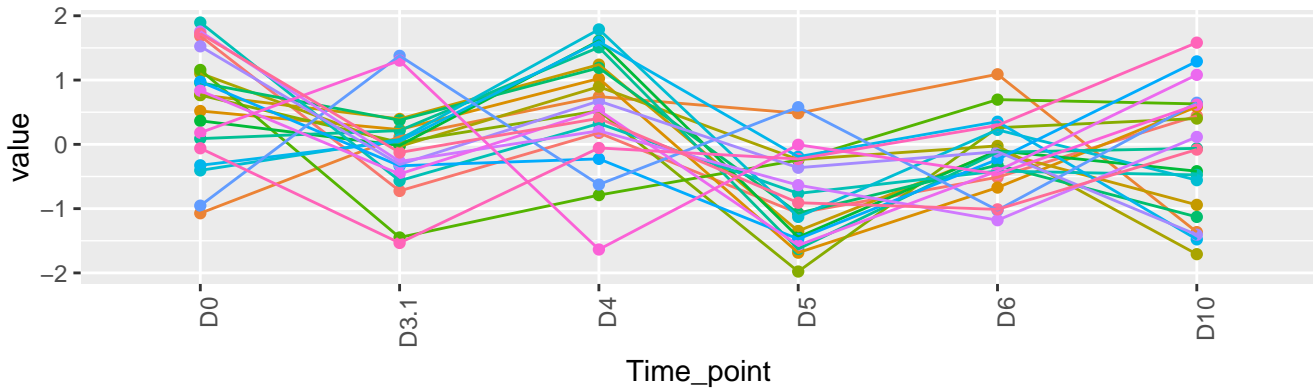
21 genes – KO-cluster-176-standardized



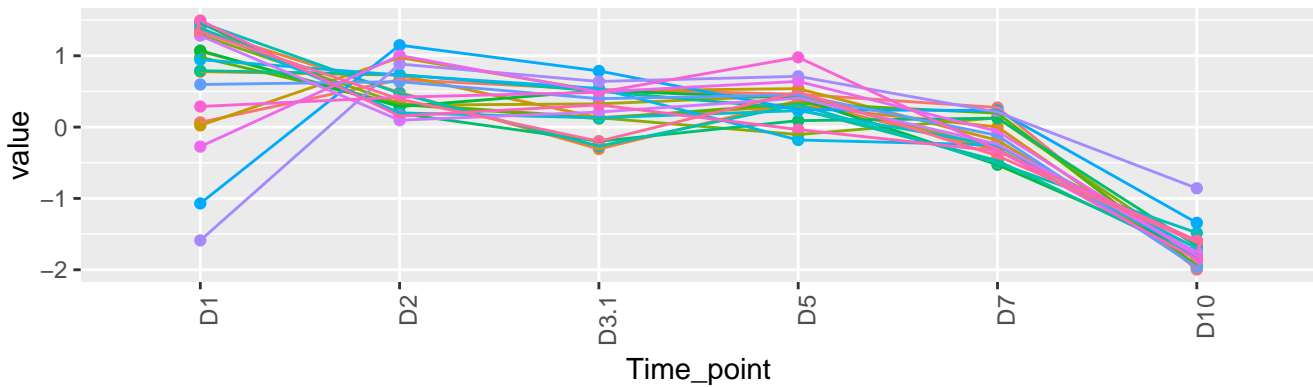
21 genes – WT-cluster-175-standardized



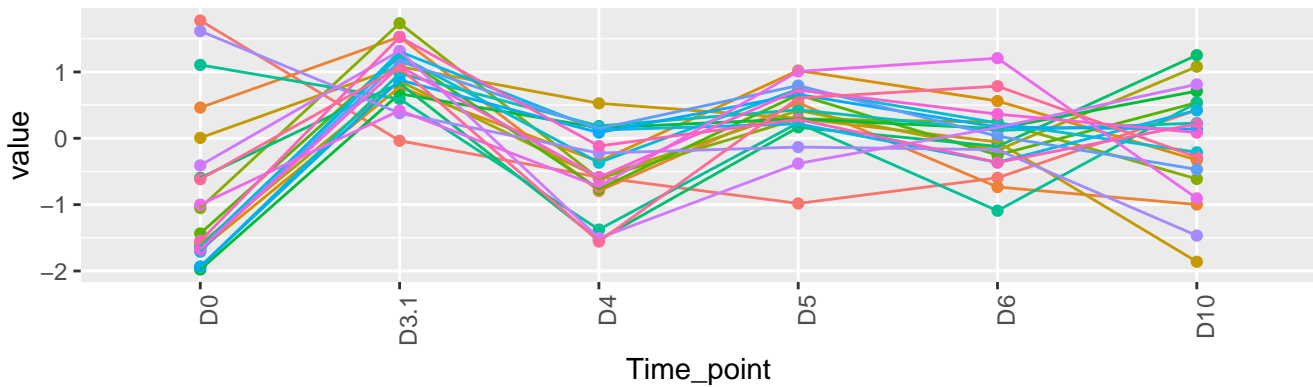
21 genes – KO-cluster-175-standardized



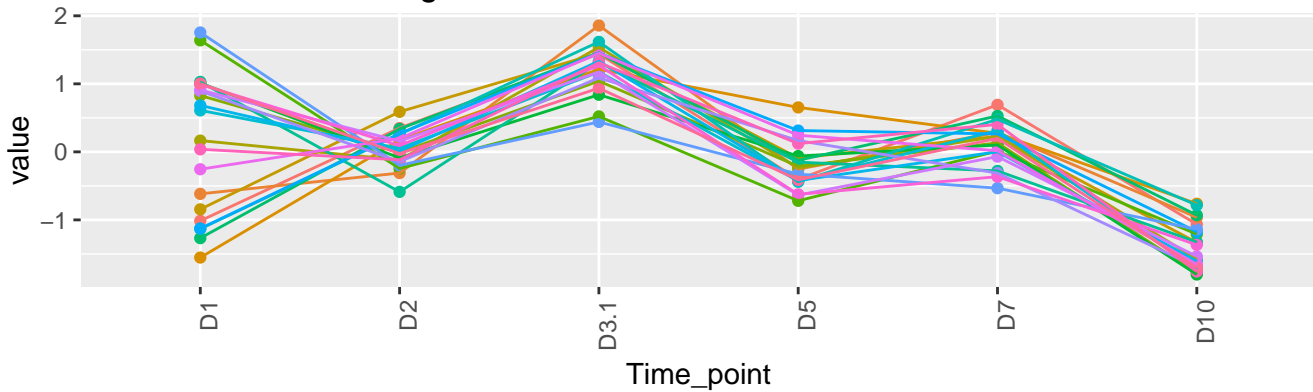
21 genes – WT-cluster-174-standardized



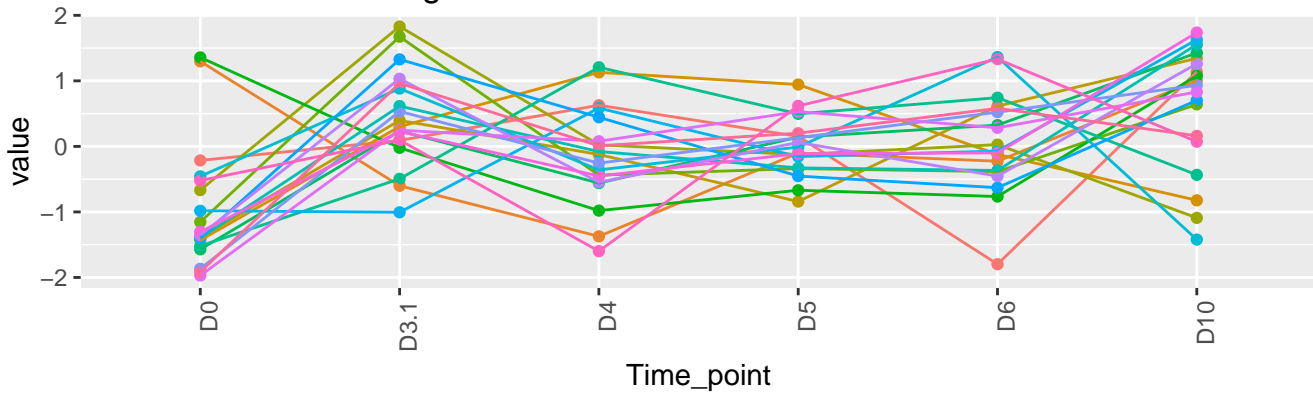
21 genes – KO-cluster-174-standardized



21 genes – WT-cluster-173-standardized

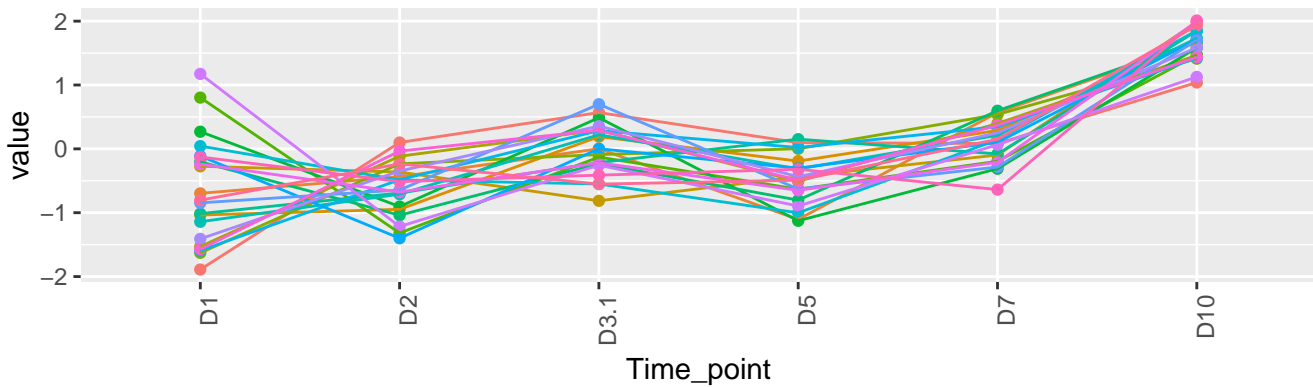


19 genes – KO-cluster-173-standardized

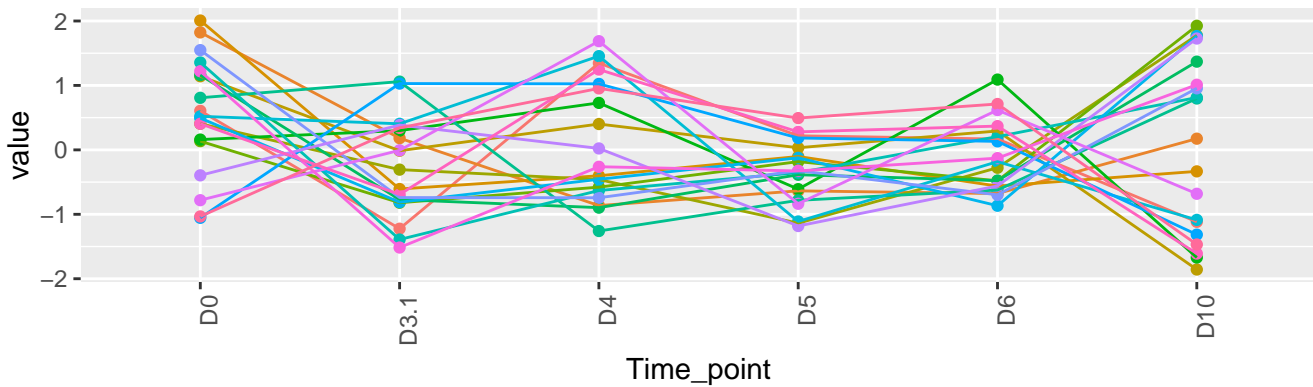




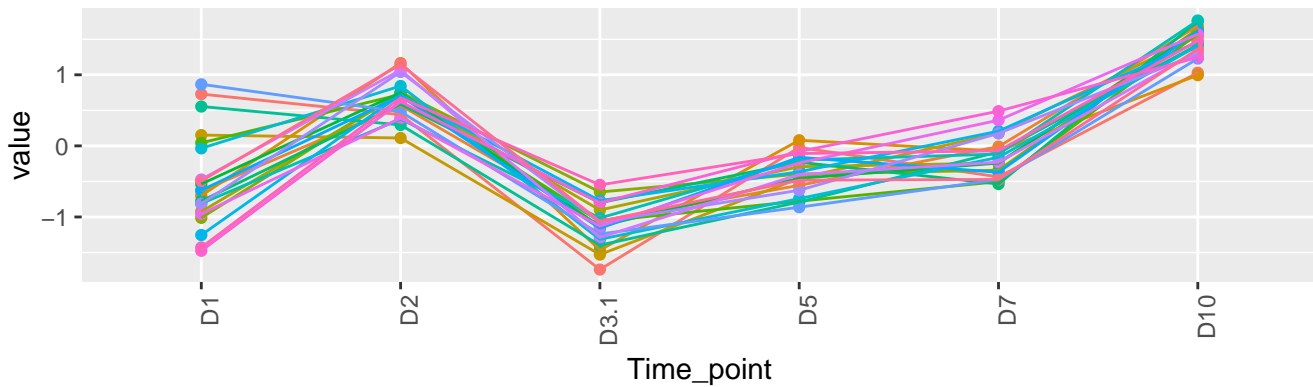
21 genes – WT-cluster-172-standardized



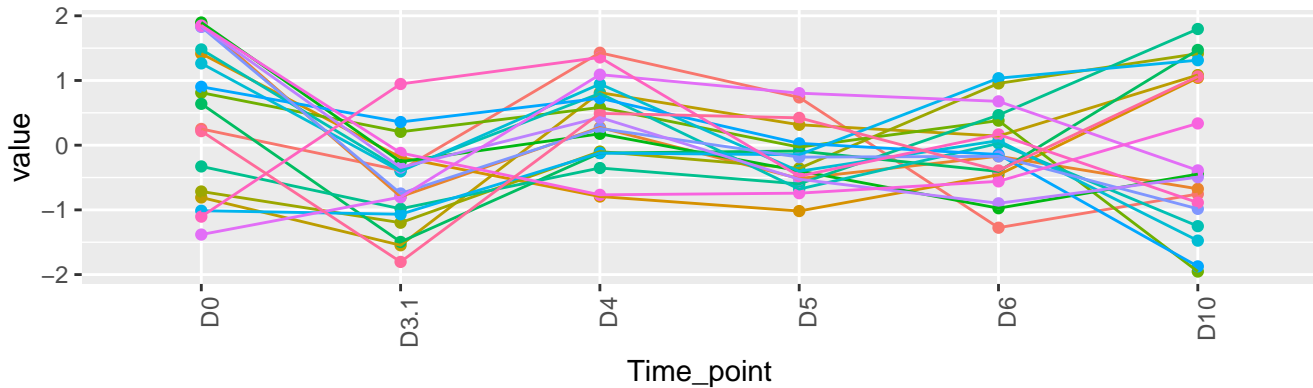
19 genes – KO-cluster-172-standardized



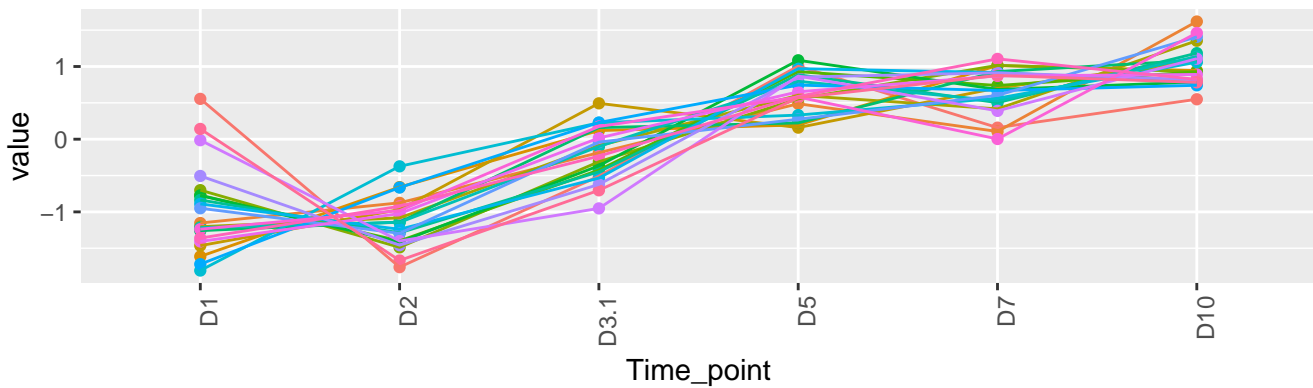
21 genes – WT-cluster-171-standardized



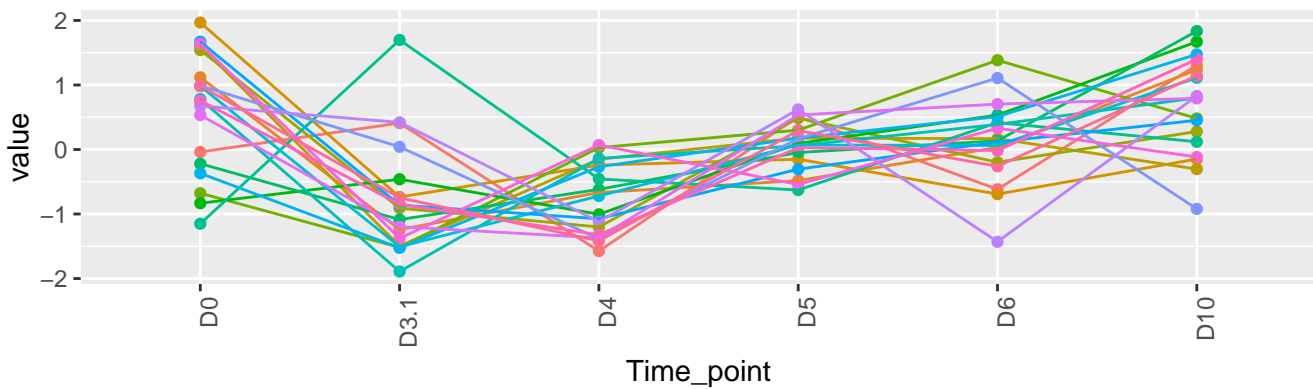
19 genes – KO-cluster-171-standardized



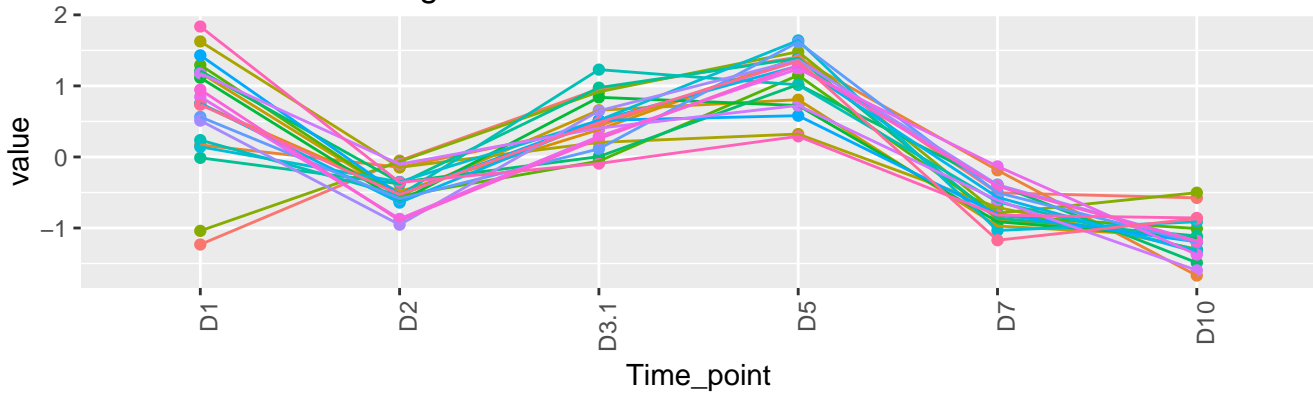
21 genes – WT-cluster-170-standardized



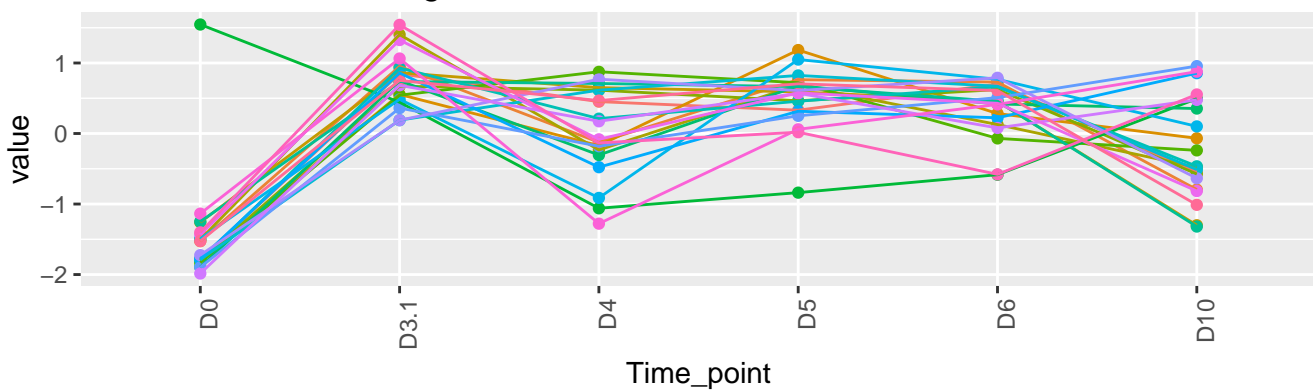
19 genes – KO-cluster-170-standardized



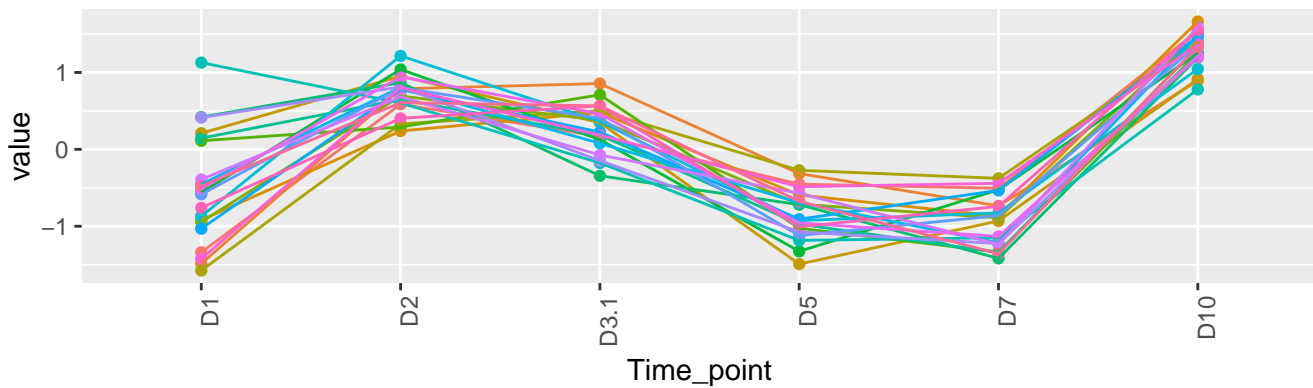
21 genes – WT-cluster-169-standardized



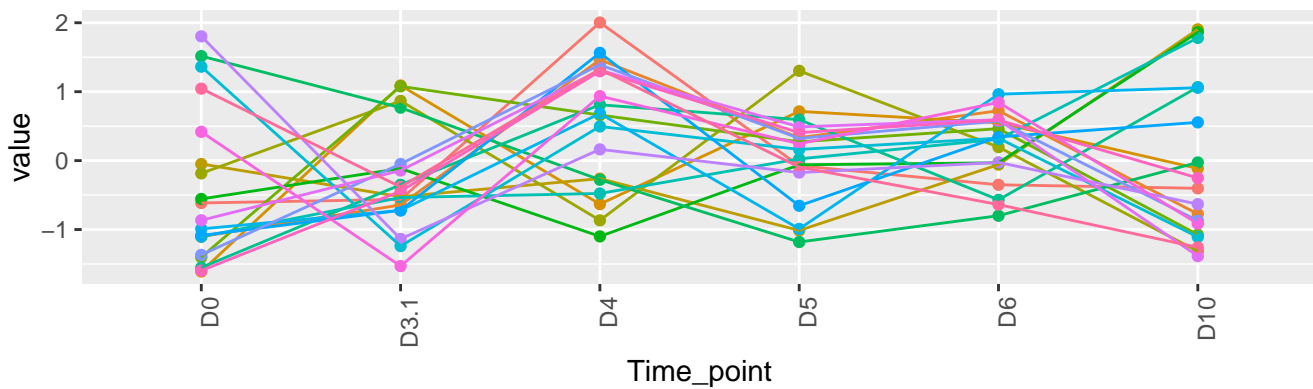
21 genes – KO-cluster-169-standardized



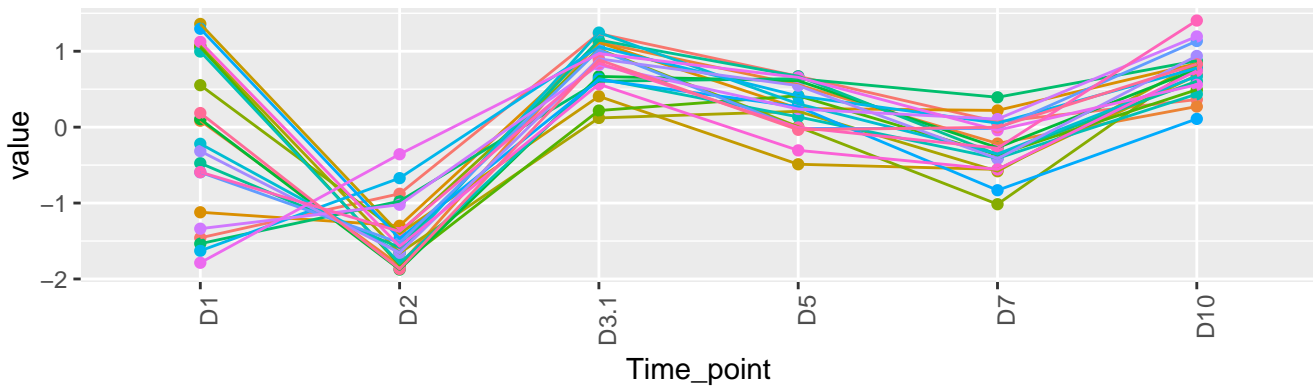
21 genes – WT-cluster-168-standardized



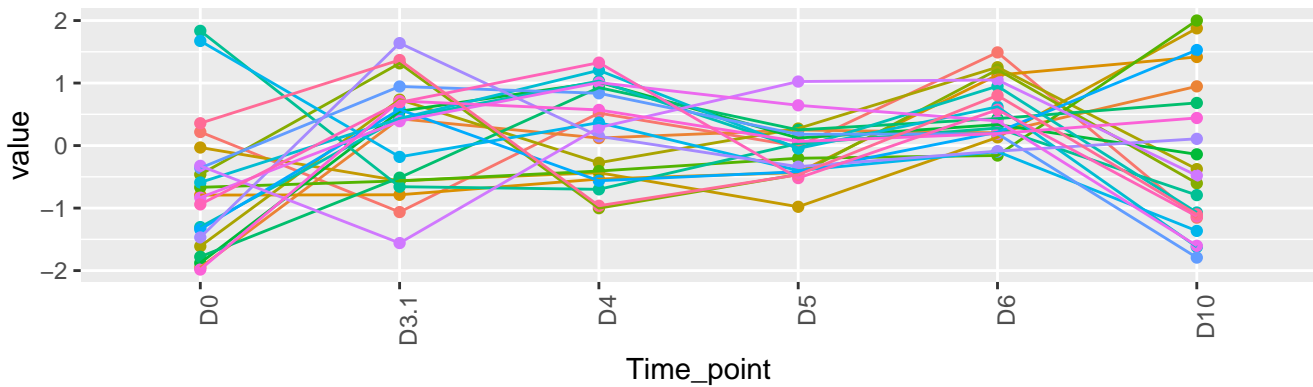
19 genes – KO-cluster-168-standardized



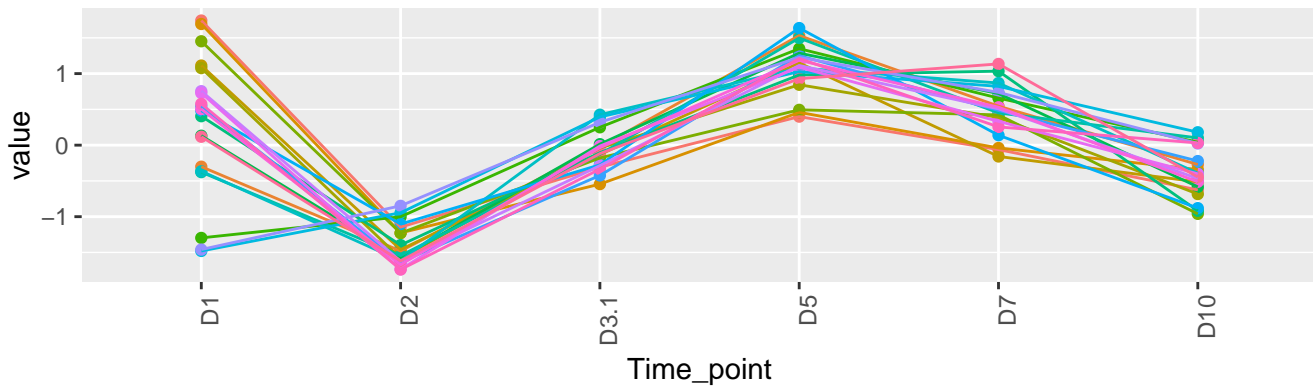
21 genes – WT-cluster-167-standardized



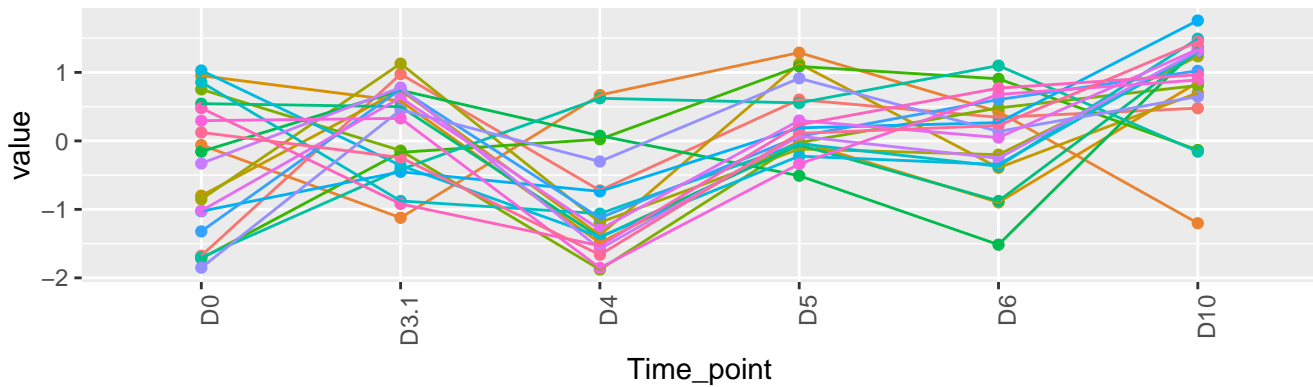
21 genes – KO-cluster-167-standardized



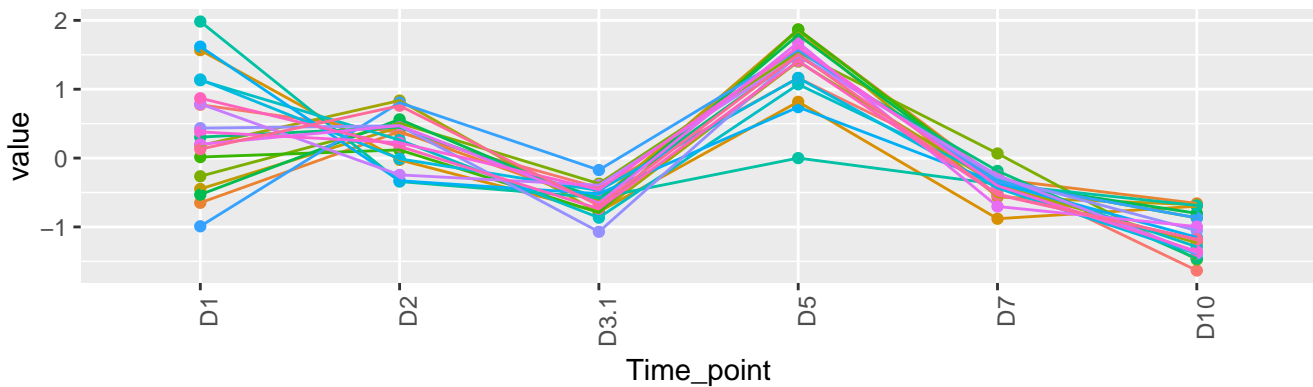
20 genes – WT-cluster-166-standardized



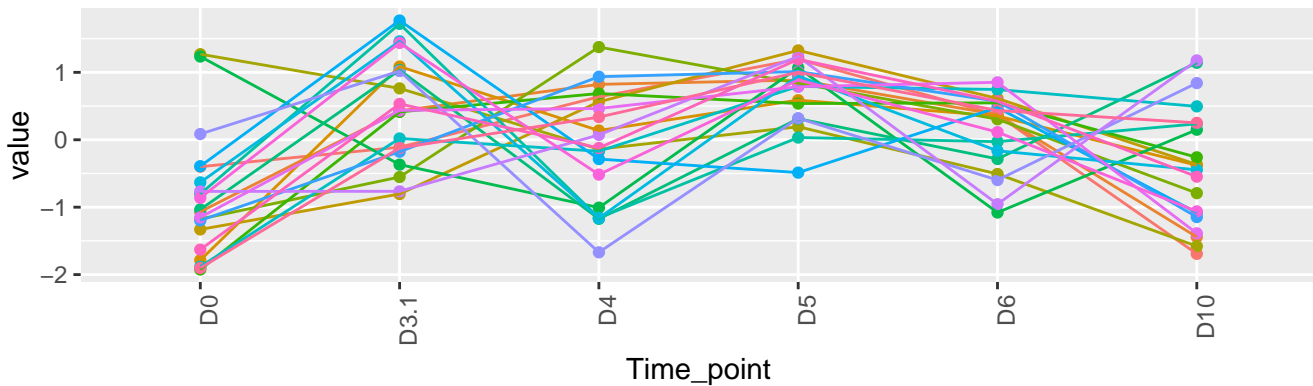
20 genes – KO-cluster-166-standardized



20 genes – WT-cluster-165-standardized

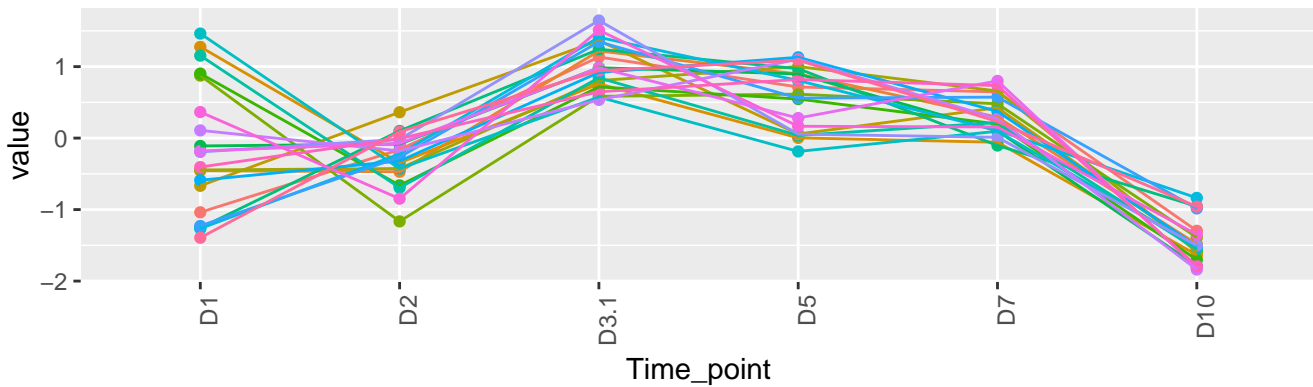


20 genes – KO-cluster-165-standardized

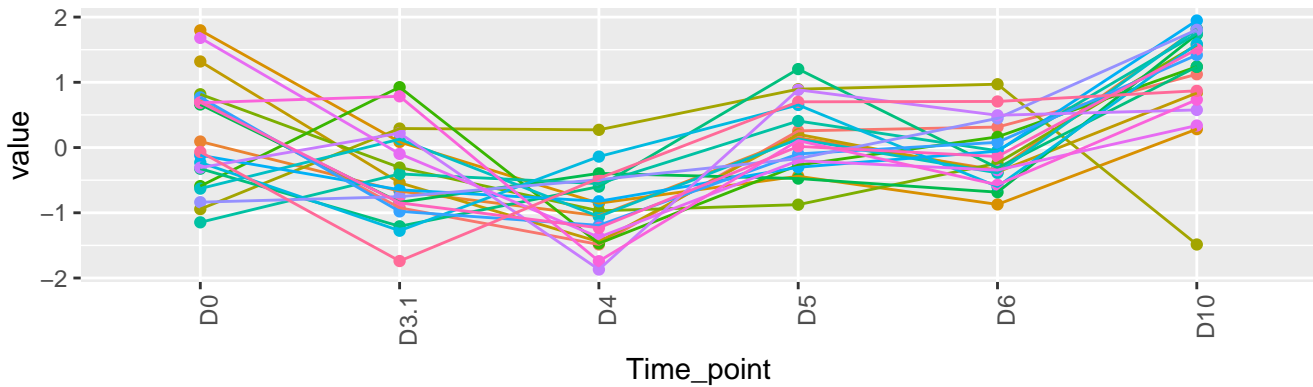




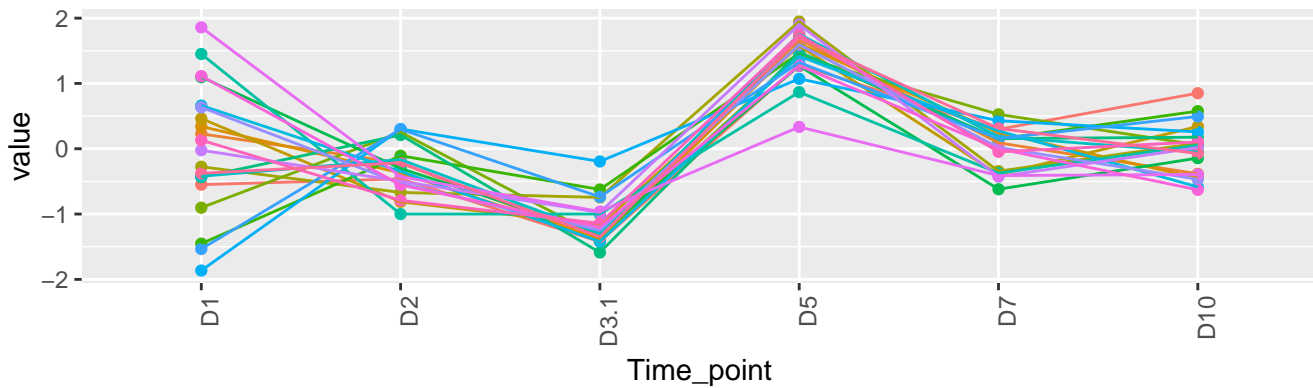
20 genes – WT-cluster-164-standardized



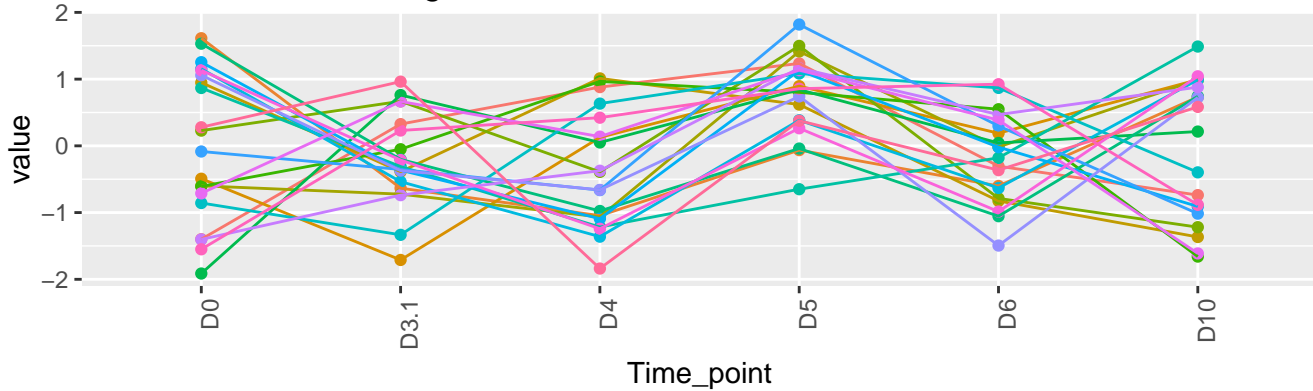
20 genes – KO-cluster-164-standardized



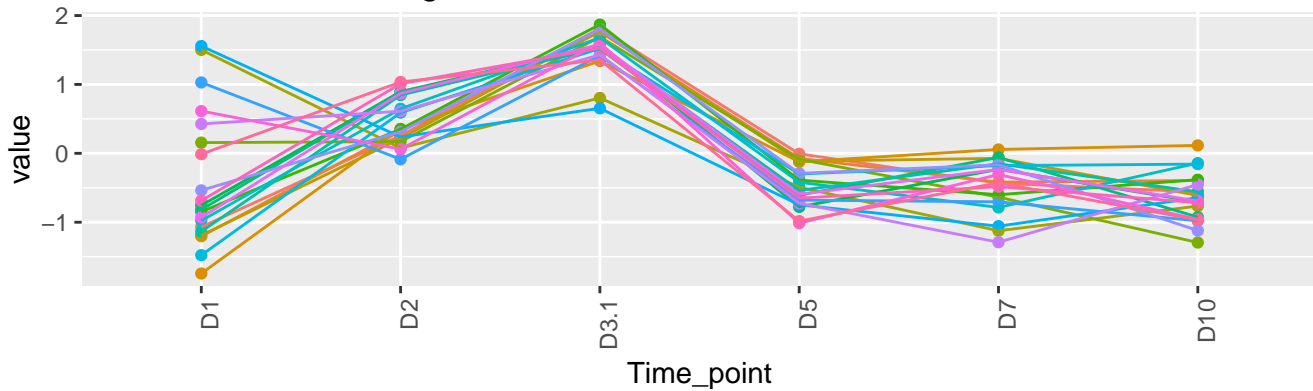
20 genes – WT-cluster-163-standardized



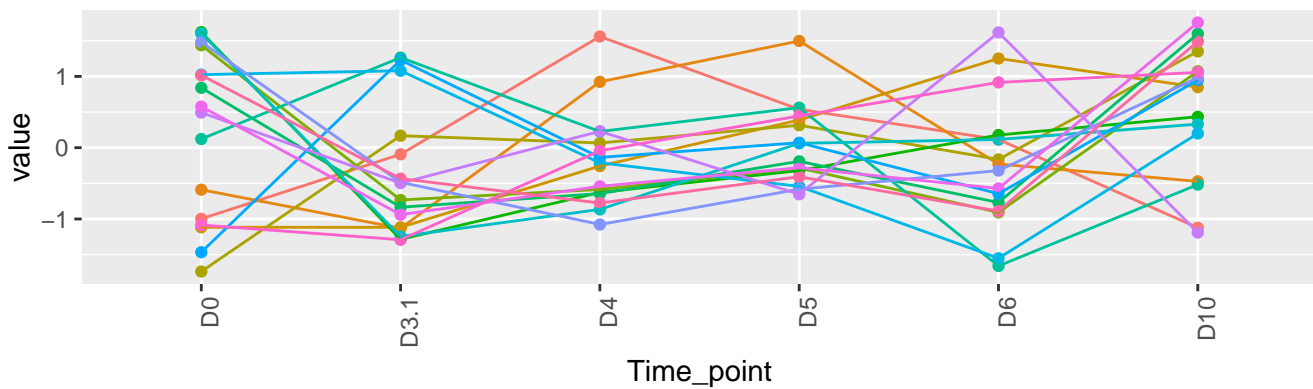
20 genes – KO-cluster-163-standardized



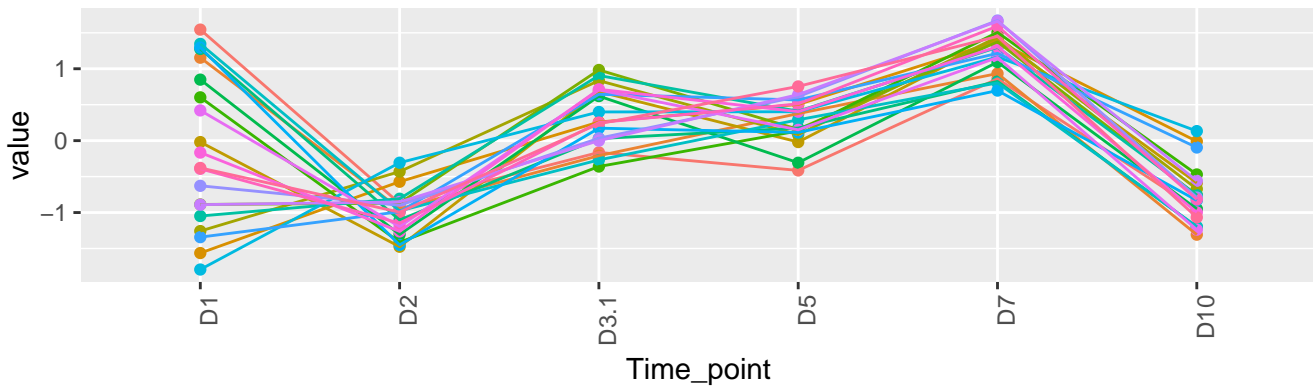
20 genes – WT-cluster-162-standardized



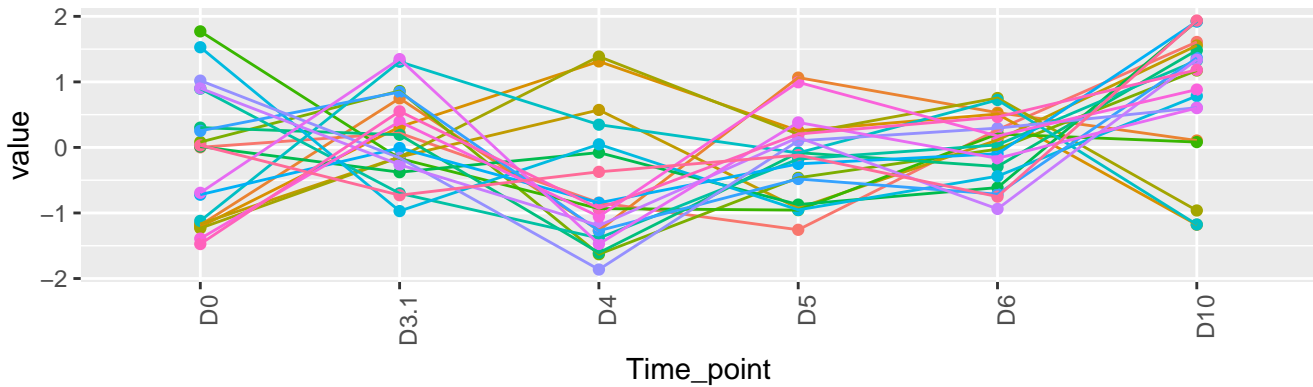
16 genes – KO-cluster-162-standardized



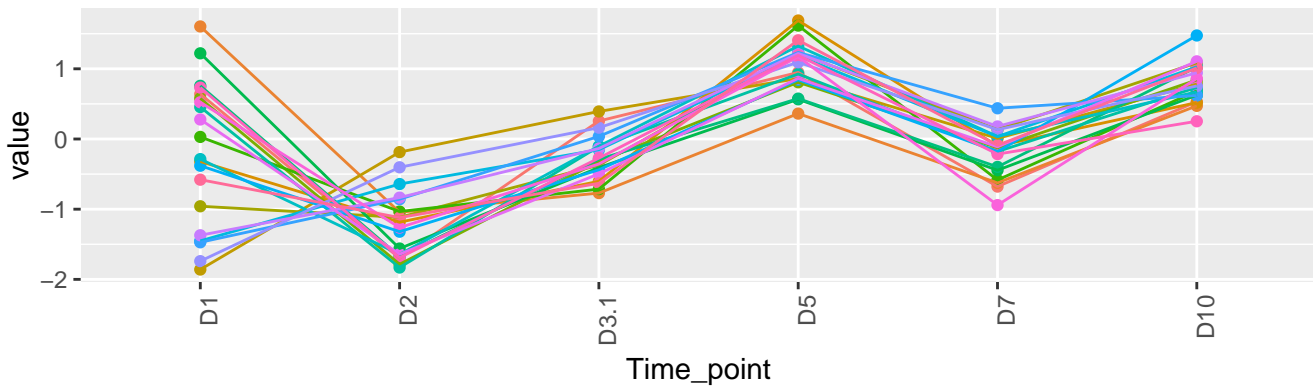
20 genes – WT-cluster-161-standardized



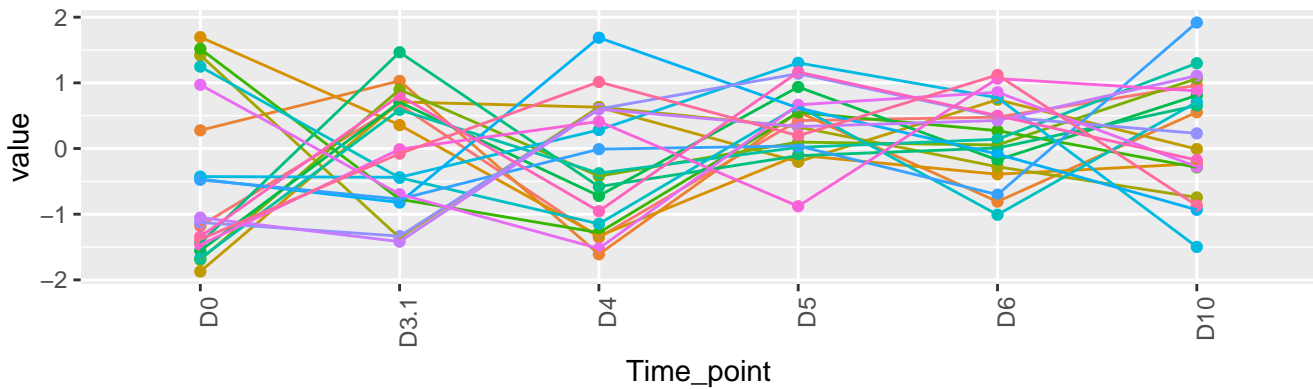
20 genes – KO-cluster-161-standardized



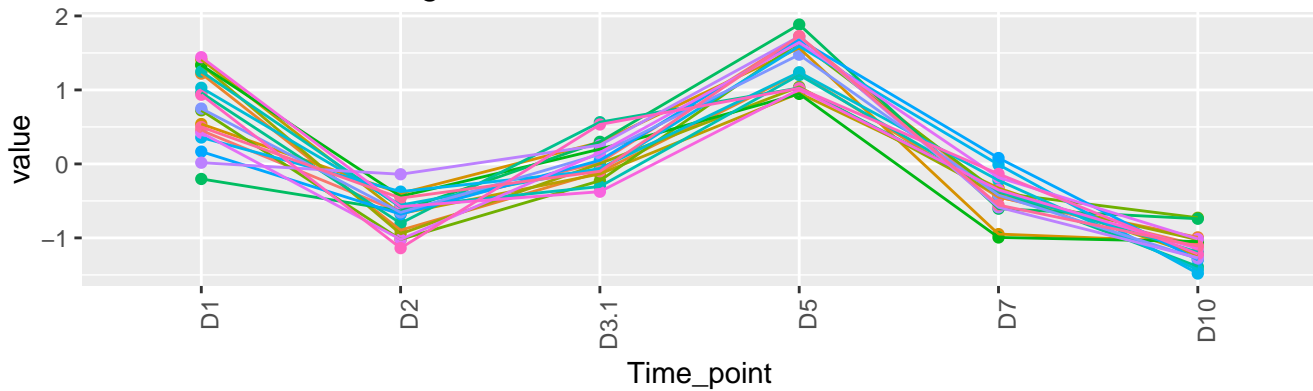
20 genes – WT-cluster-160-standardized



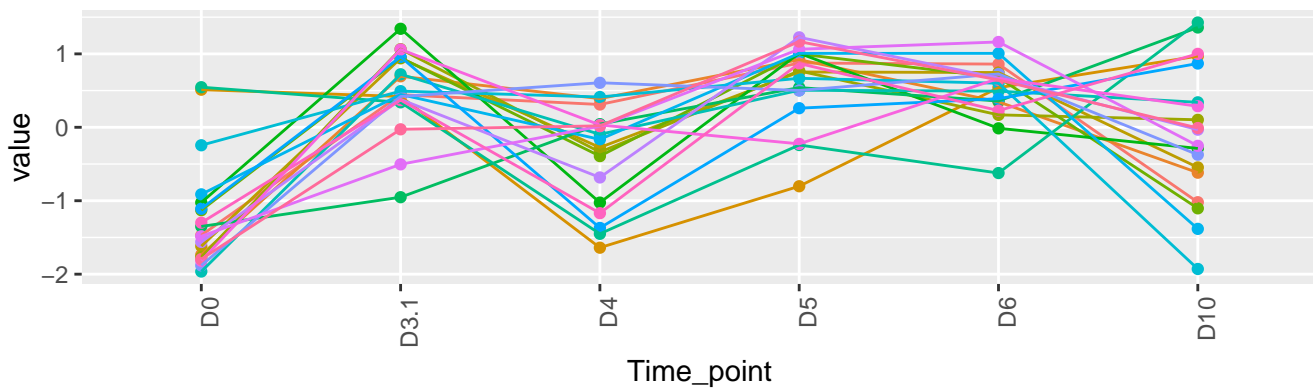
20 genes – KO-cluster-160-standardized



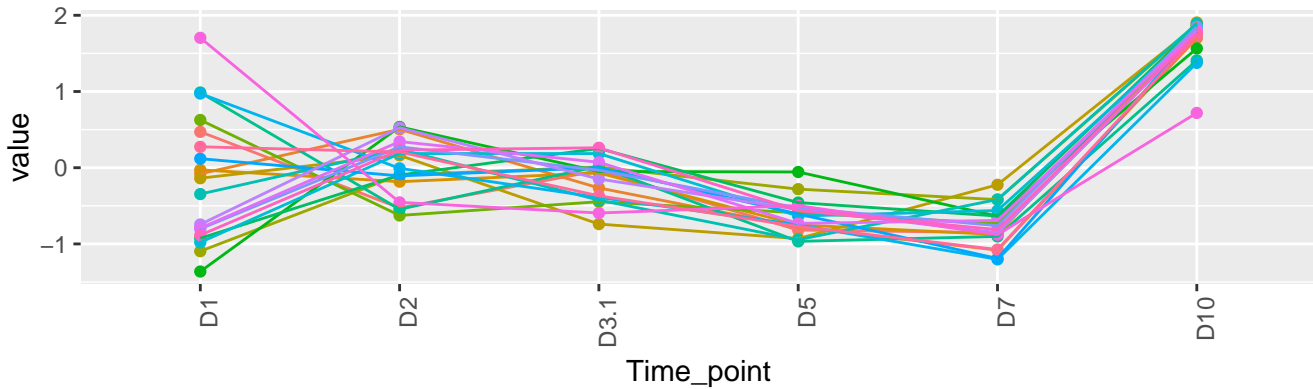
19 genes – WT-cluster-159-standardized



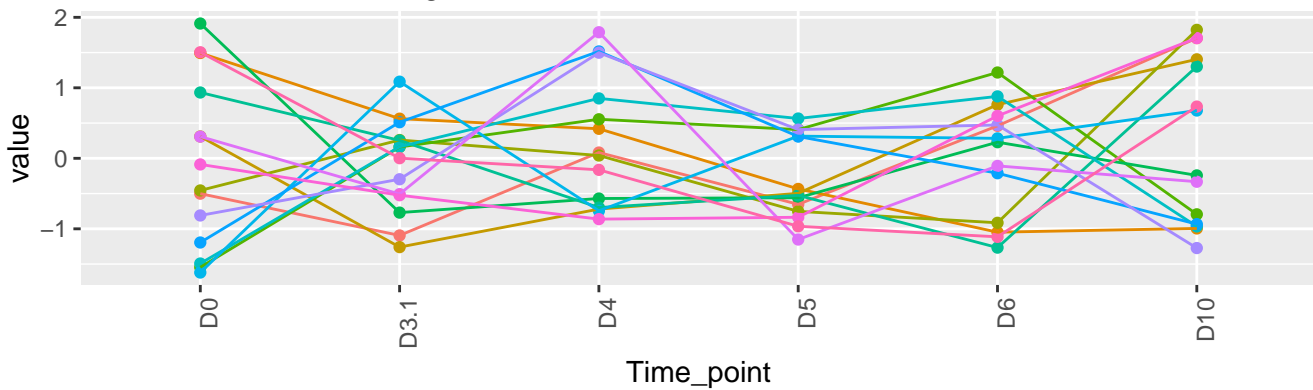
19 genes – KO-cluster-159-standardized



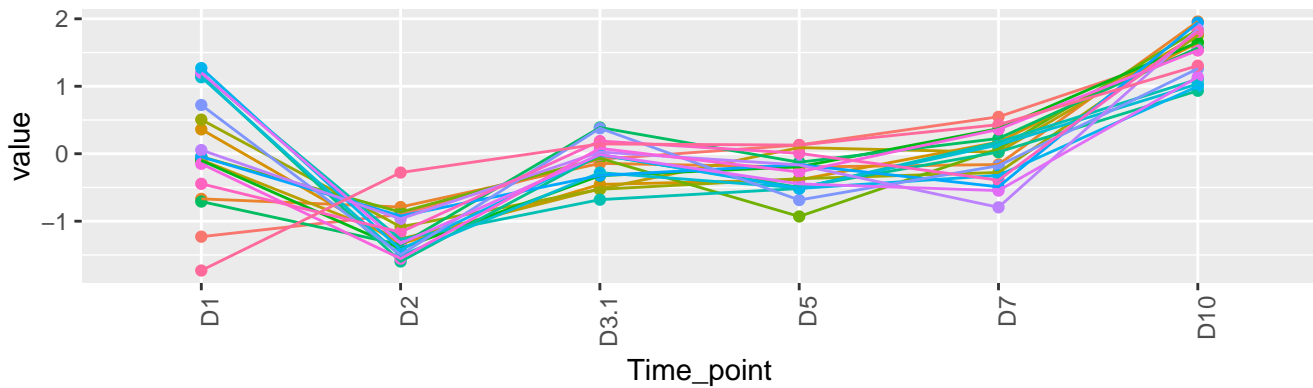
19 genes – WT-cluster-158-standardized



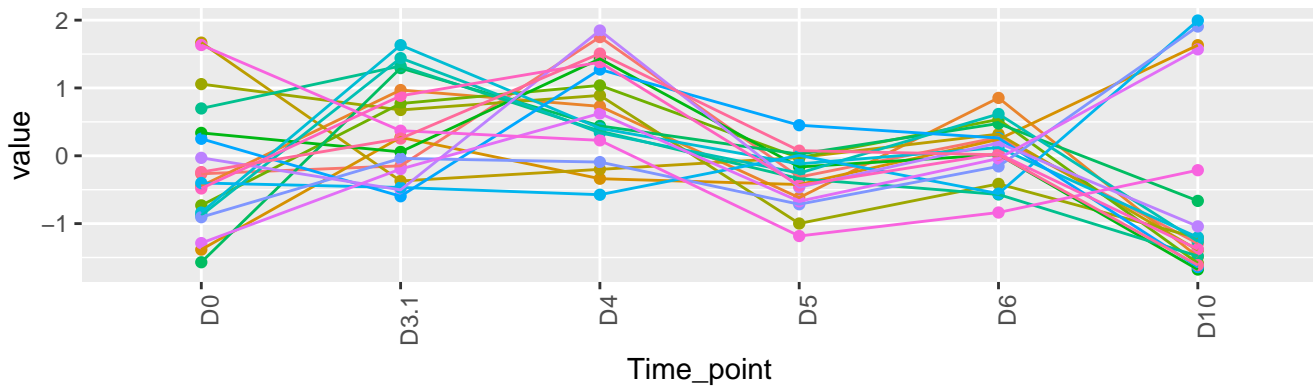
14 genes – KO-cluster-158-standardized



19 genes – WT-cluster-157-standardized

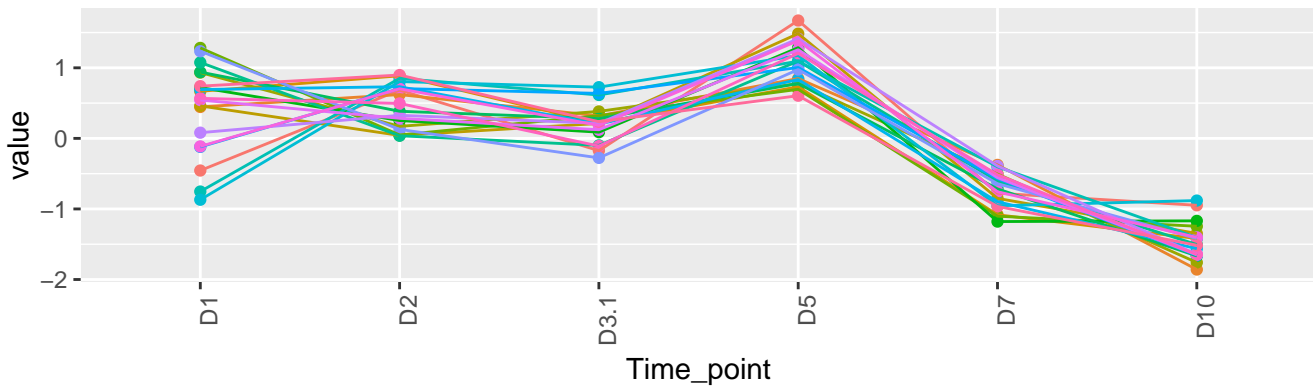


19 genes – KO-cluster-157-standardized

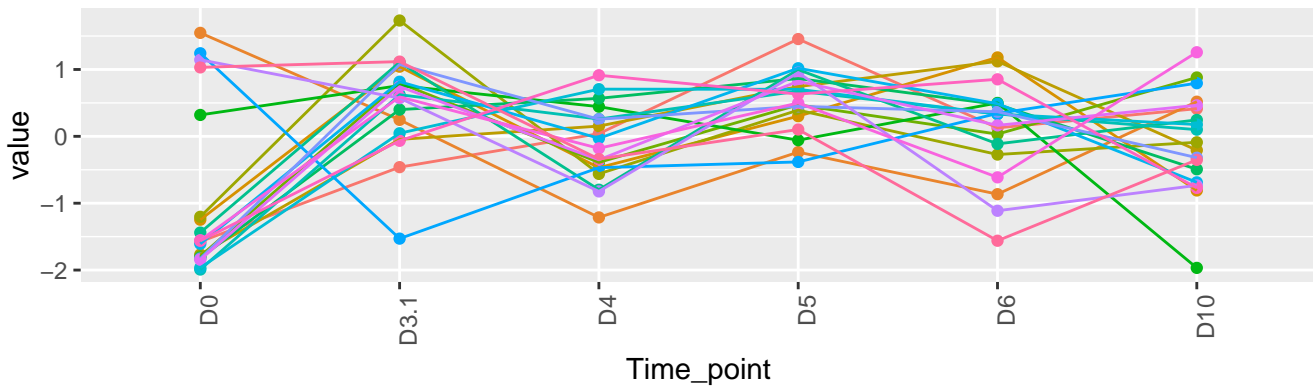




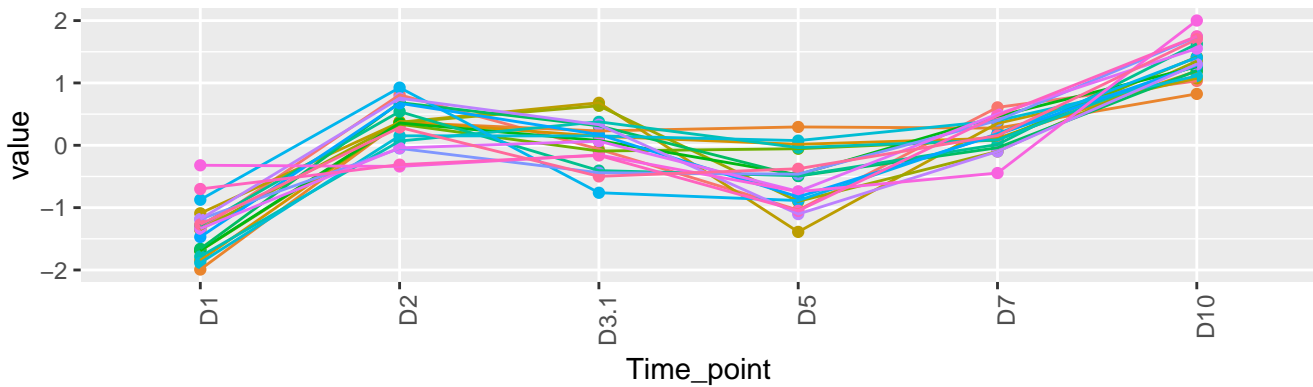
19 genes – WT-cluster-156-standardized



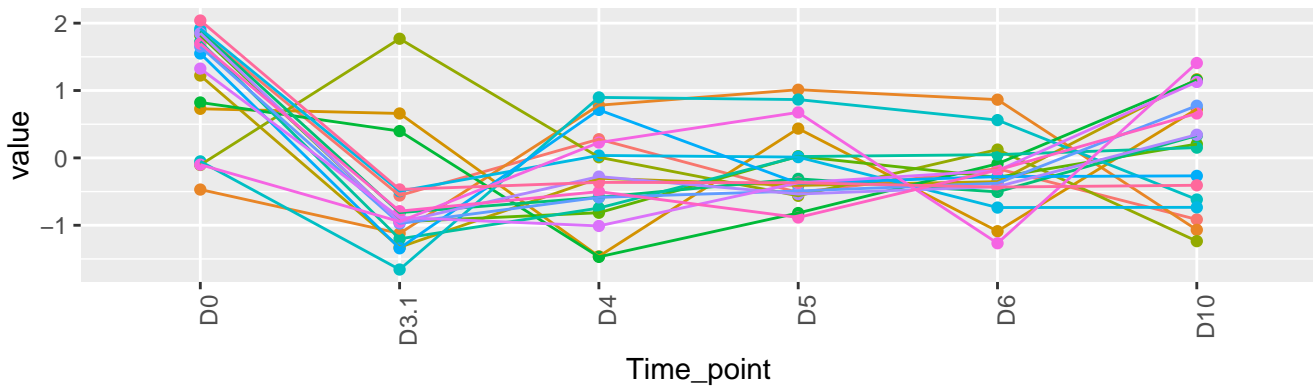
19 genes – KO-cluster-156-standardized



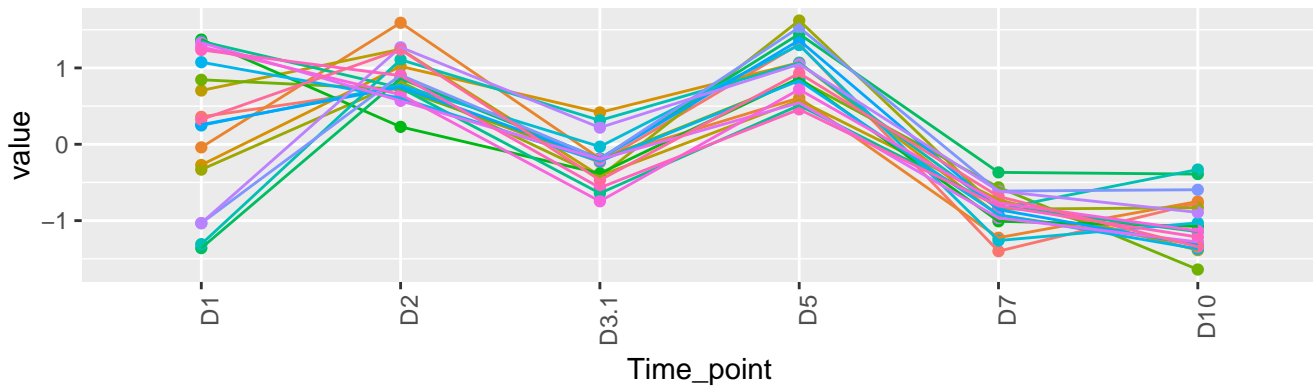
19 genes – WT-cluster-155-standardized



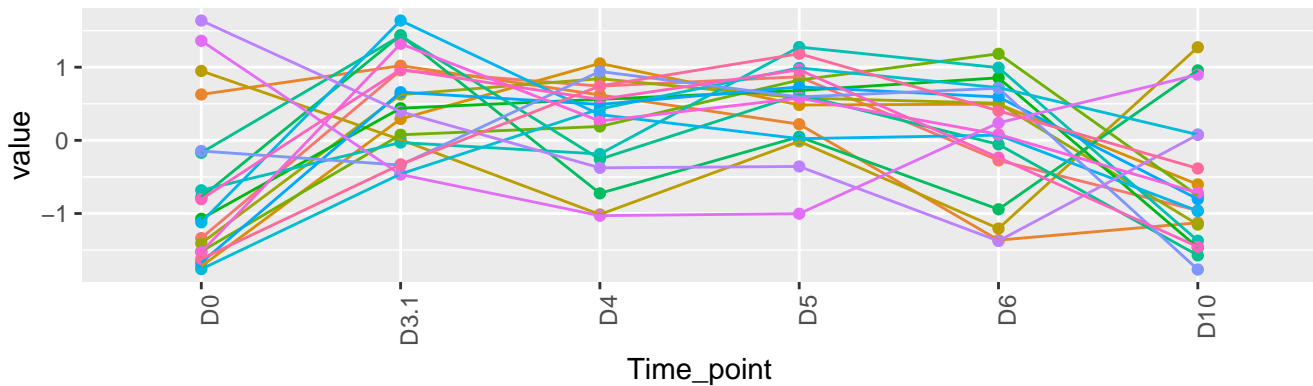
18 genes – KO-cluster-155-standardized



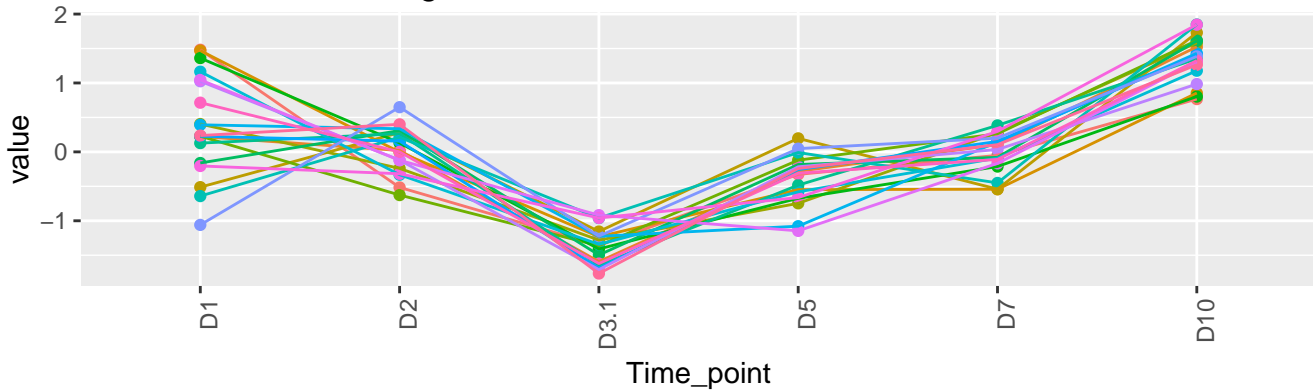
19 genes – WT-cluster-154-standardized



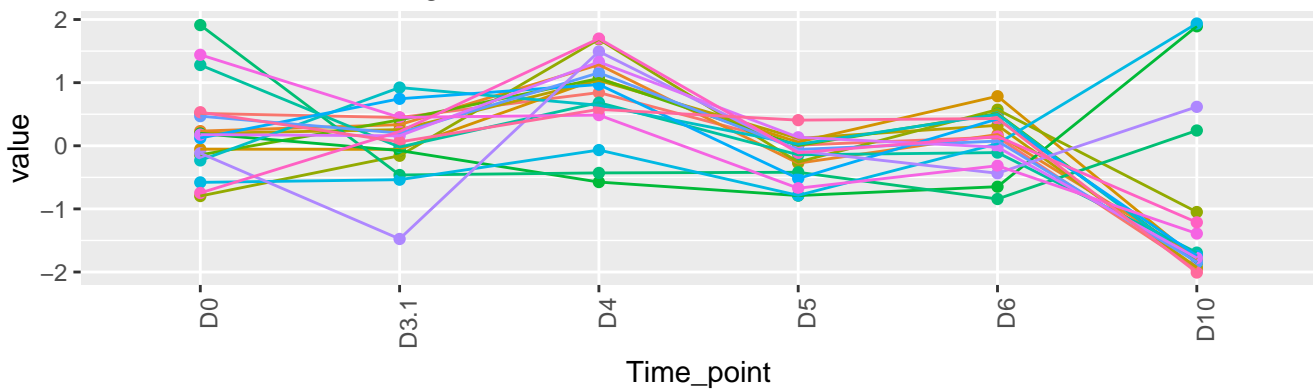
19 genes – KO-cluster-154-standardized



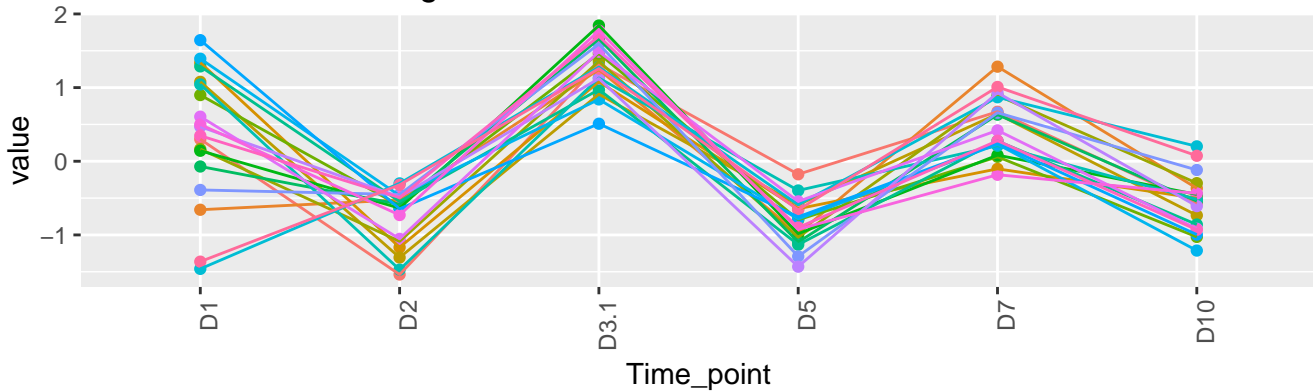
19 genes – WT-cluster-153-standardized



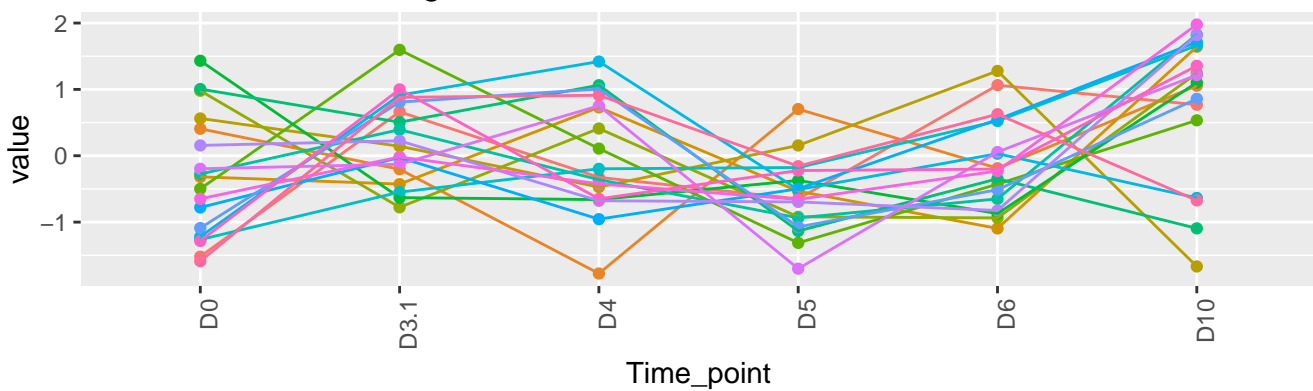
18 genes – KO-cluster-153-standardized



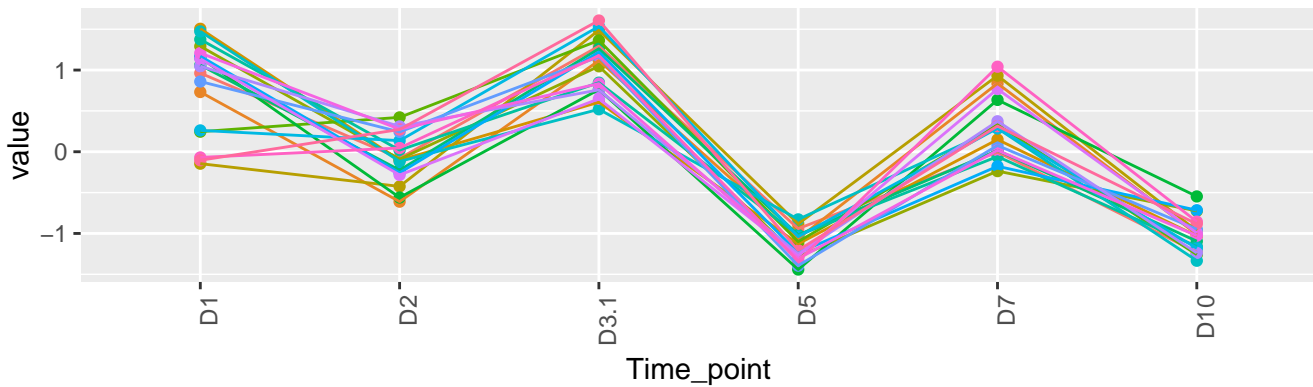
19 genes – WT-cluster-152-standardized



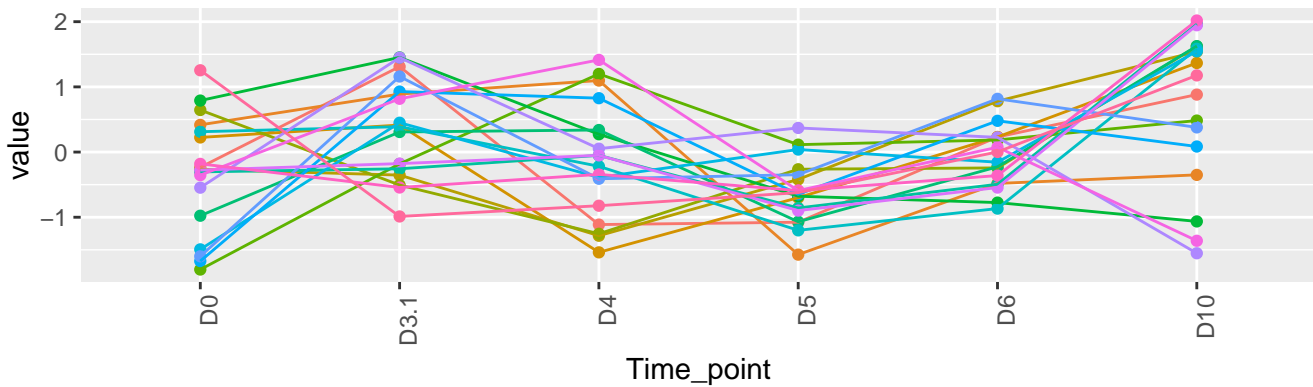
18 genes – KO-cluster-152-standardized



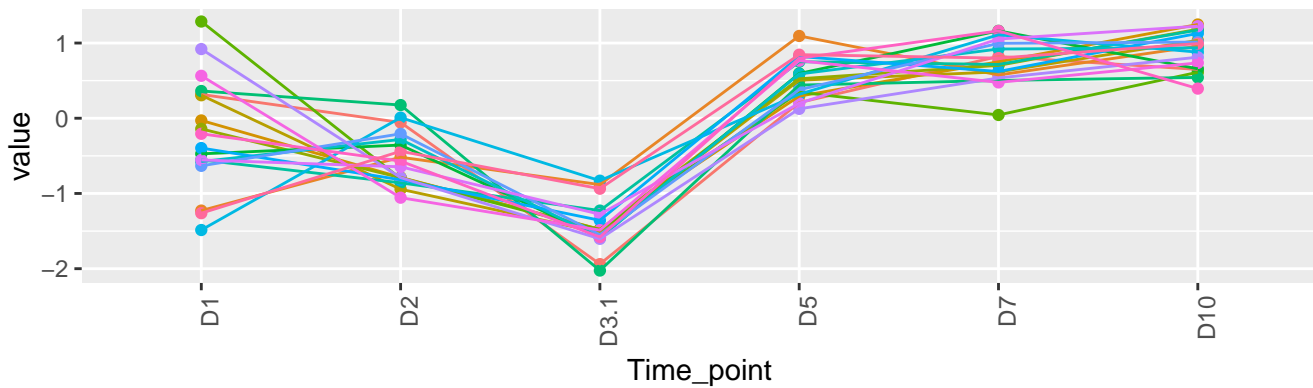
18 genes – WT-cluster-151-standardized



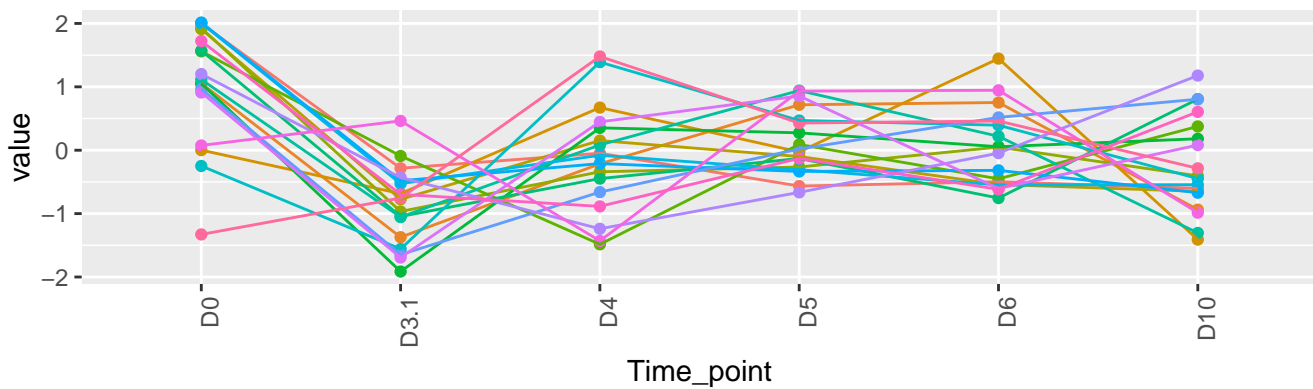
18 genes – KO-cluster-151-standardized



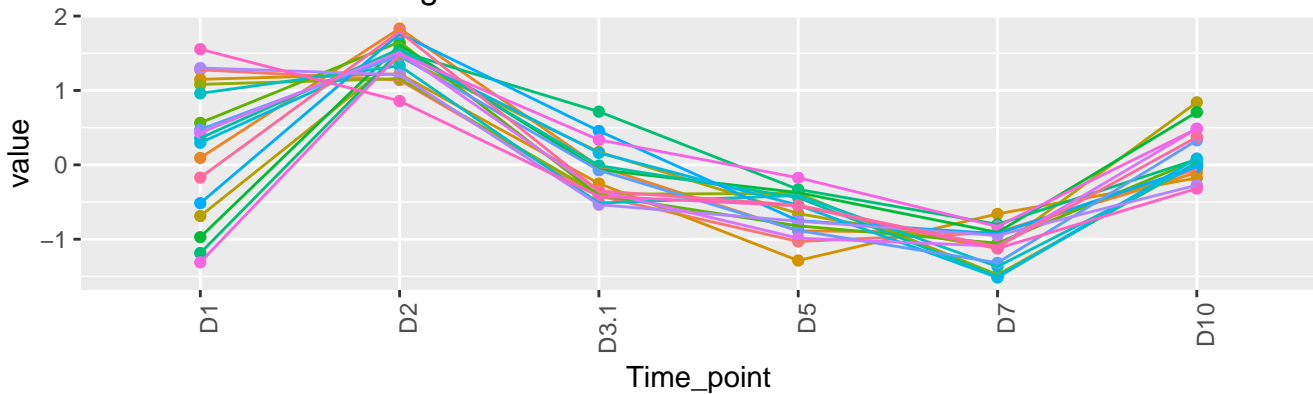
18 genes – WT-cluster-150-standardized



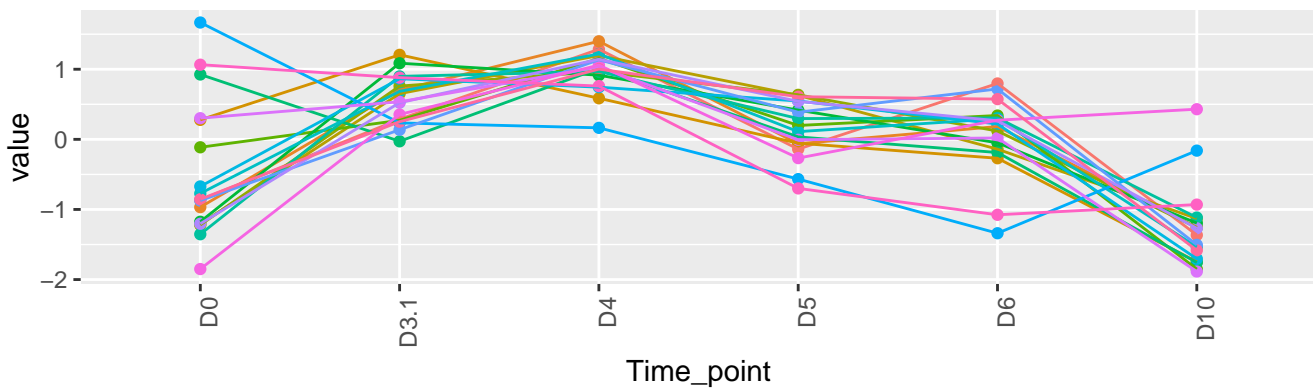
18 genes – KO-cluster-150-standardized



18 genes – WT-cluster-149-standardized

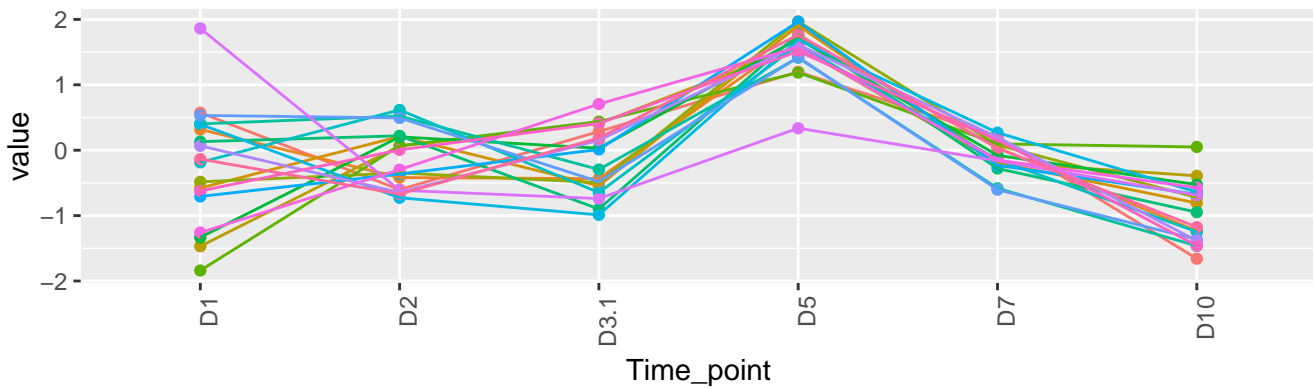


18 genes – KO-cluster-149-standardized

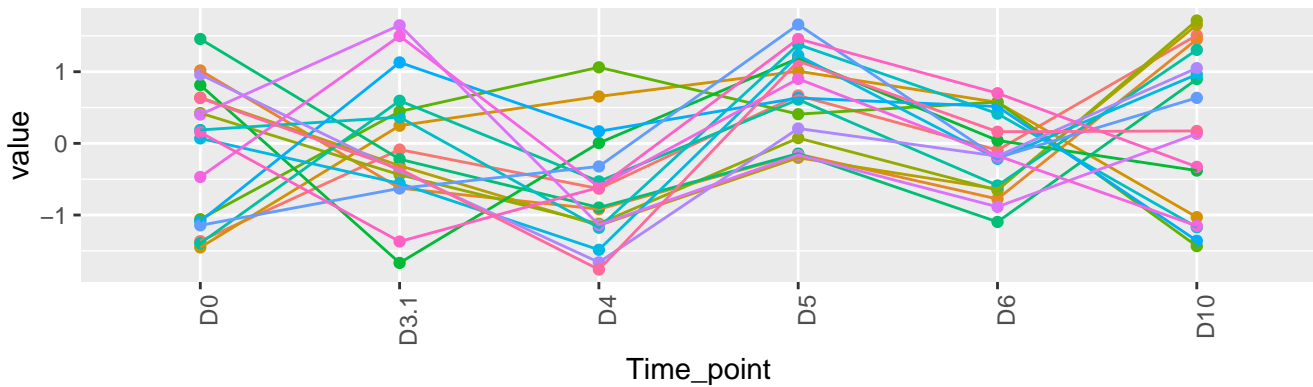




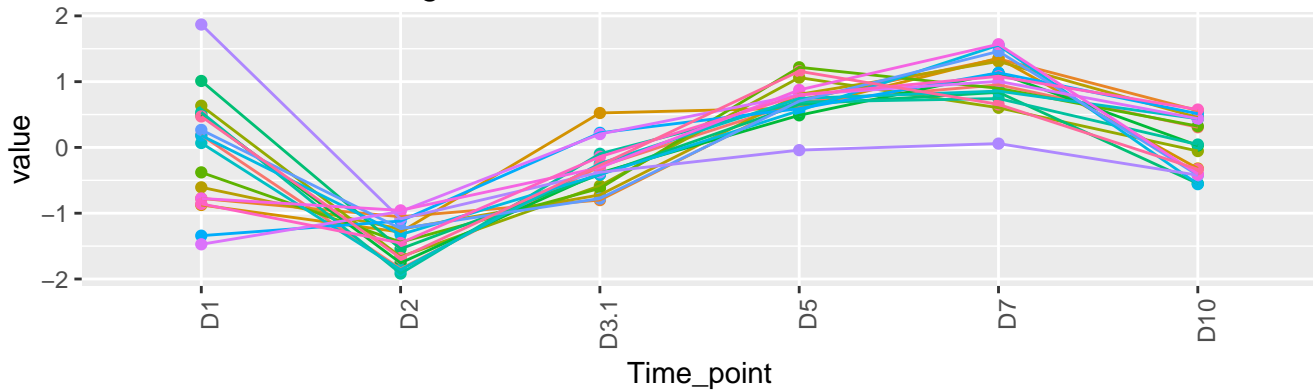
18 genes – WT-cluster-148-standardized



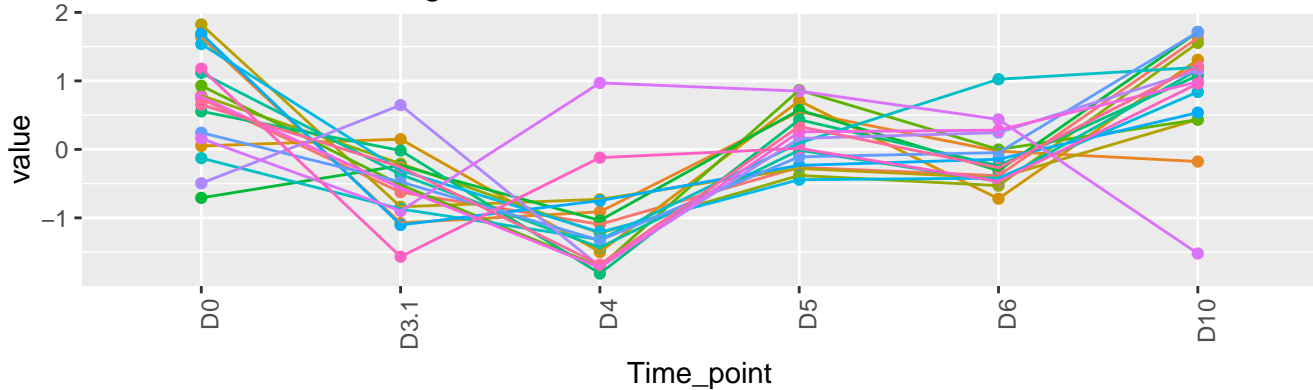
18 genes – KO-cluster-148-standardized



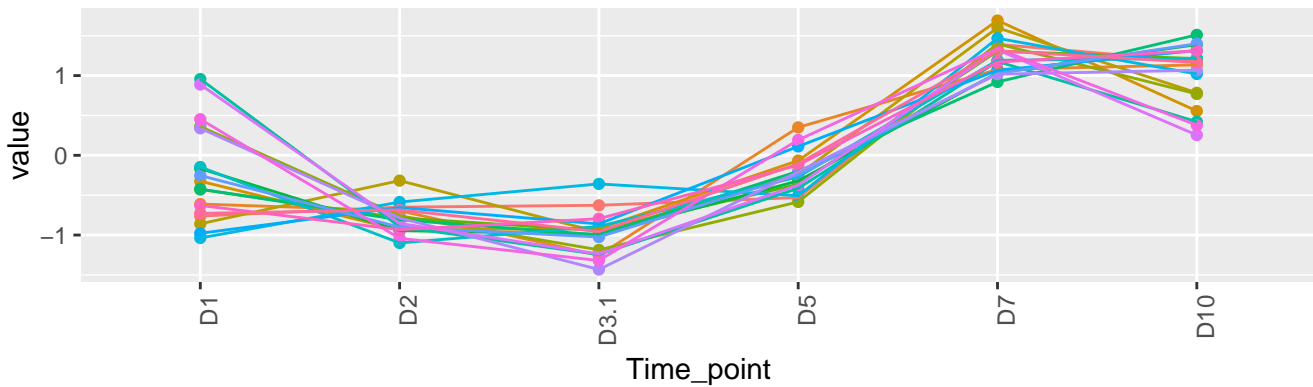
18 genes – WT-cluster-147-standardized



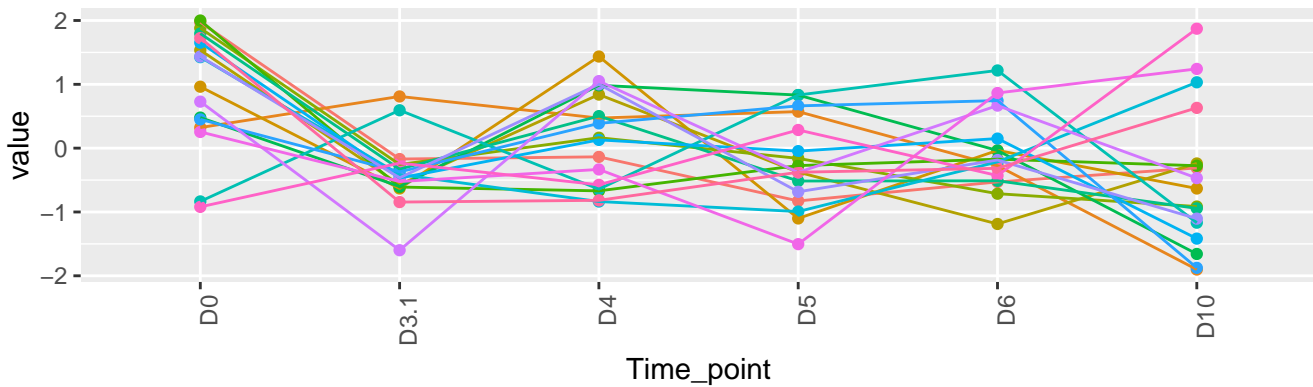
18 genes – KO-cluster-147-standardized



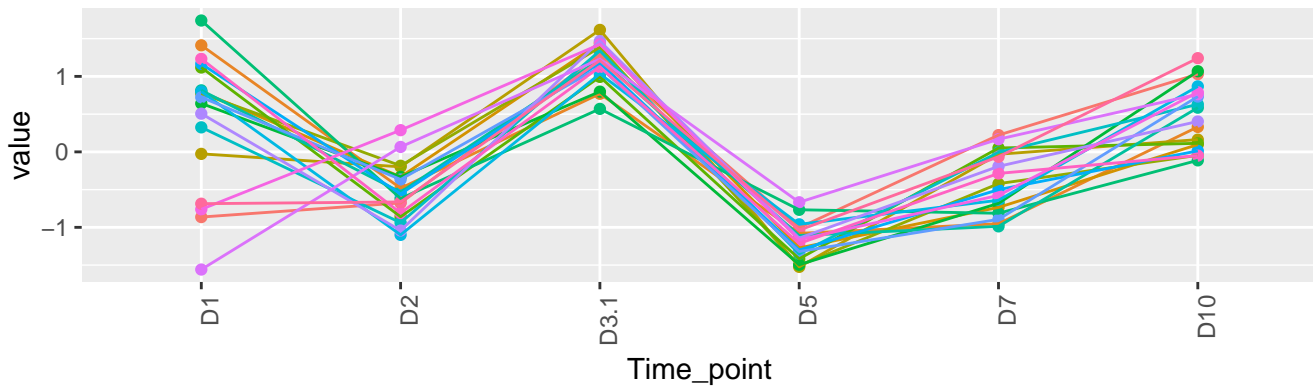
18 genes – WT-cluster-146-standardized



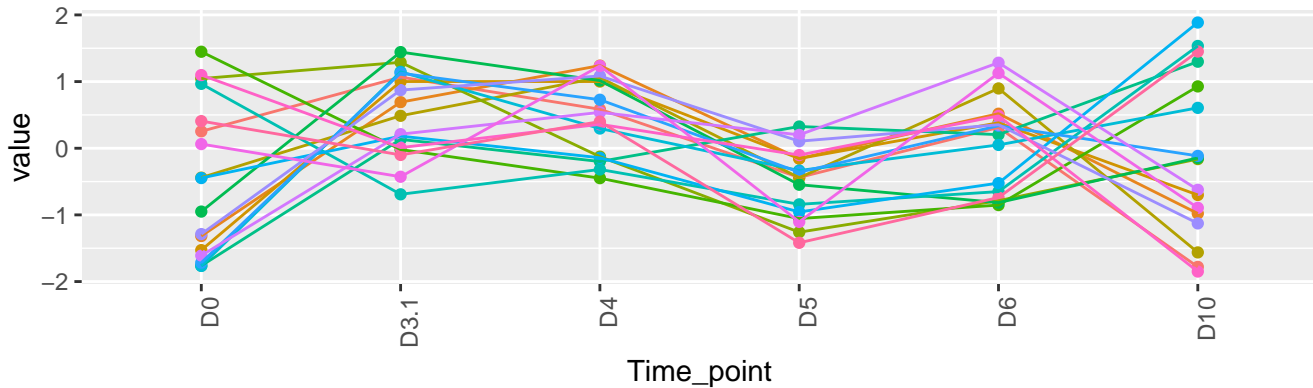
17 genes – KO-cluster-146-standardized



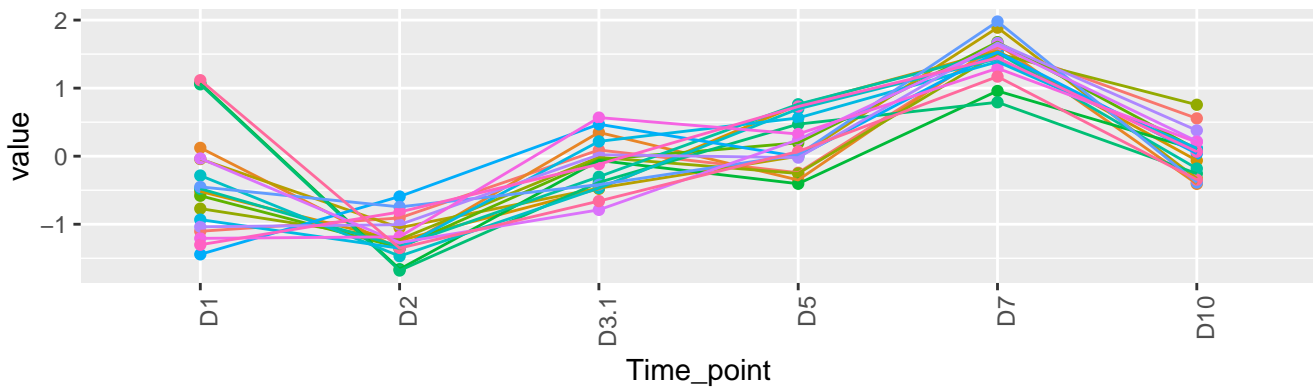
18 genes – WT-cluster-145-standardized



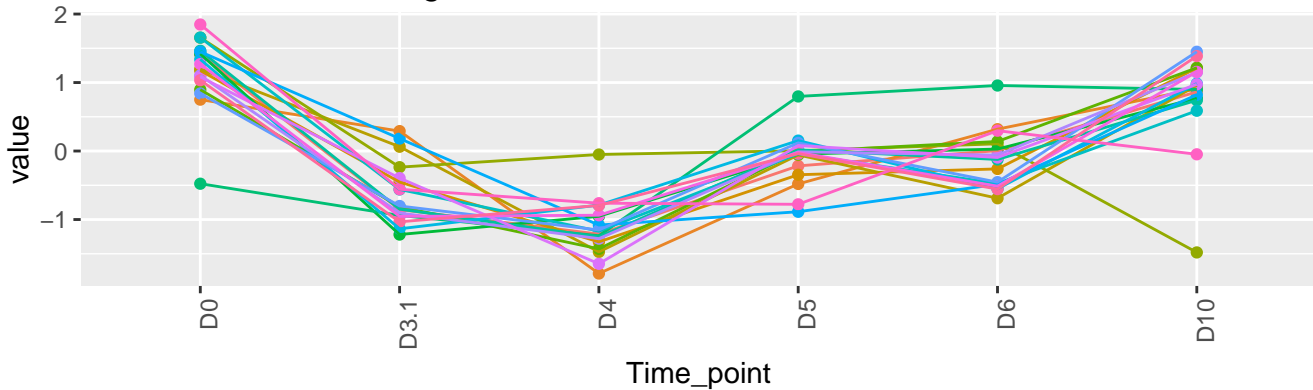
17 genes – KO-cluster-145-standardized



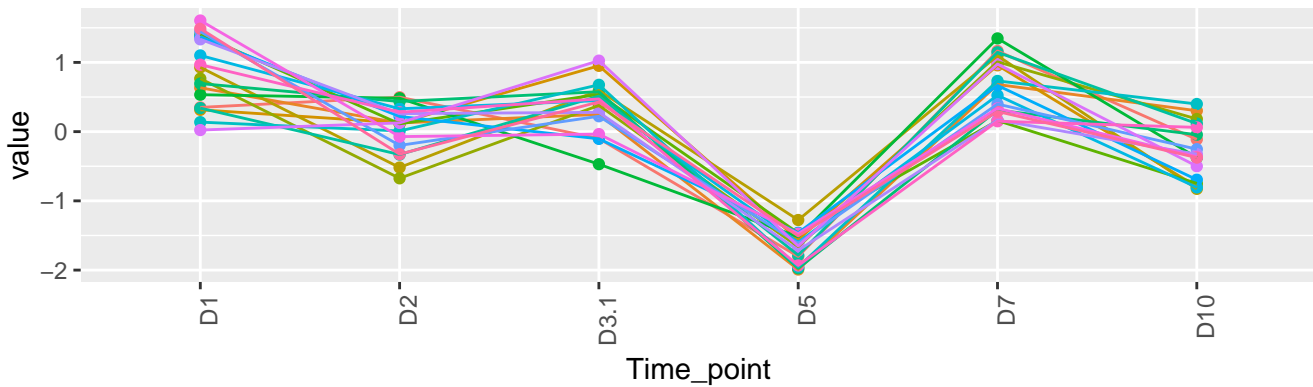
18 genes – WT-cluster-144-standardized



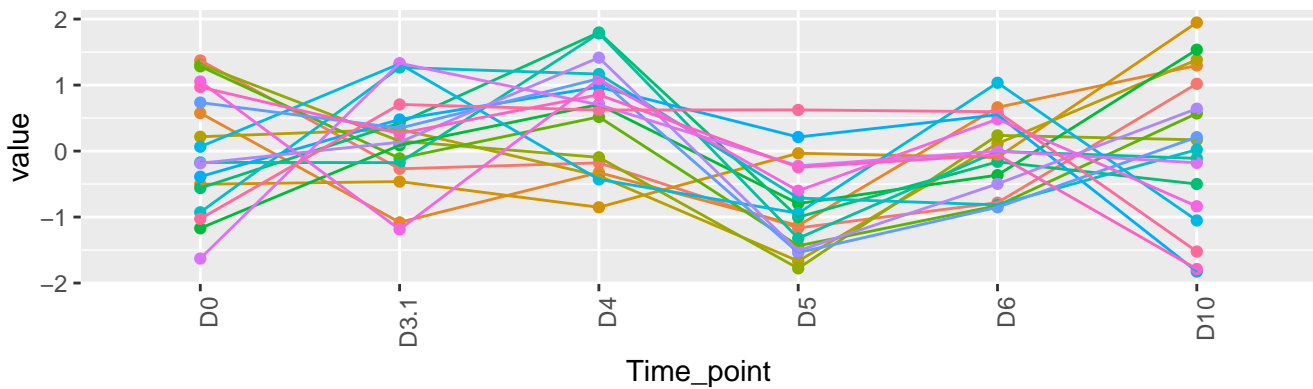
18 genes – KO-cluster-144-standardized



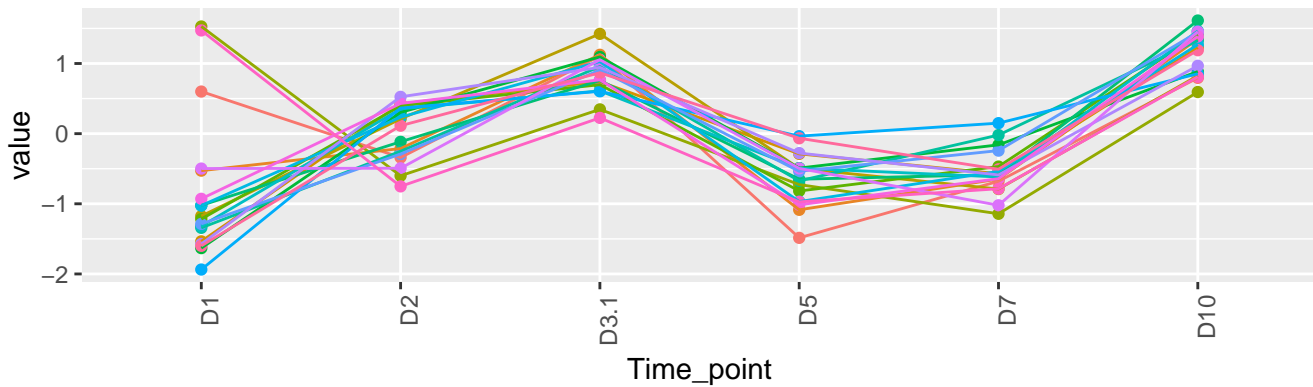
18 genes – WT-cluster-143-standardized



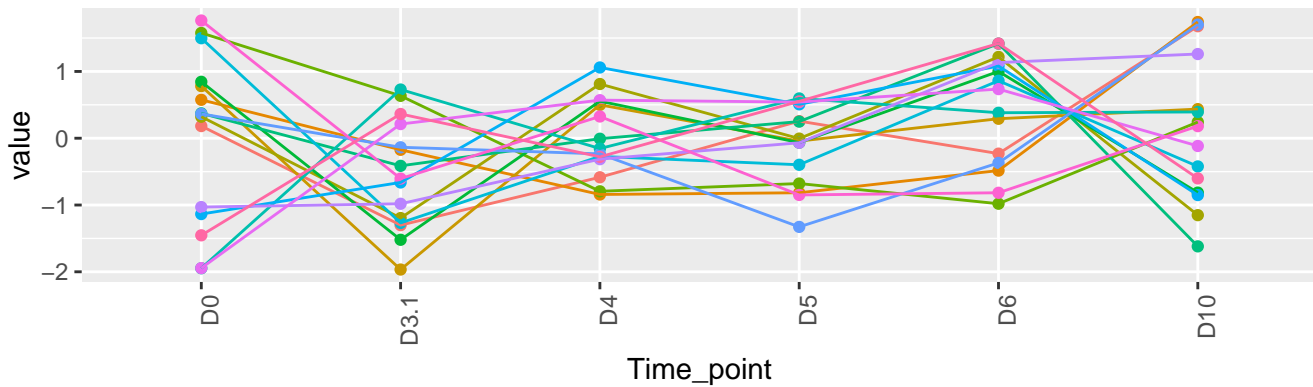
18 genes – KO-cluster-143-standardized



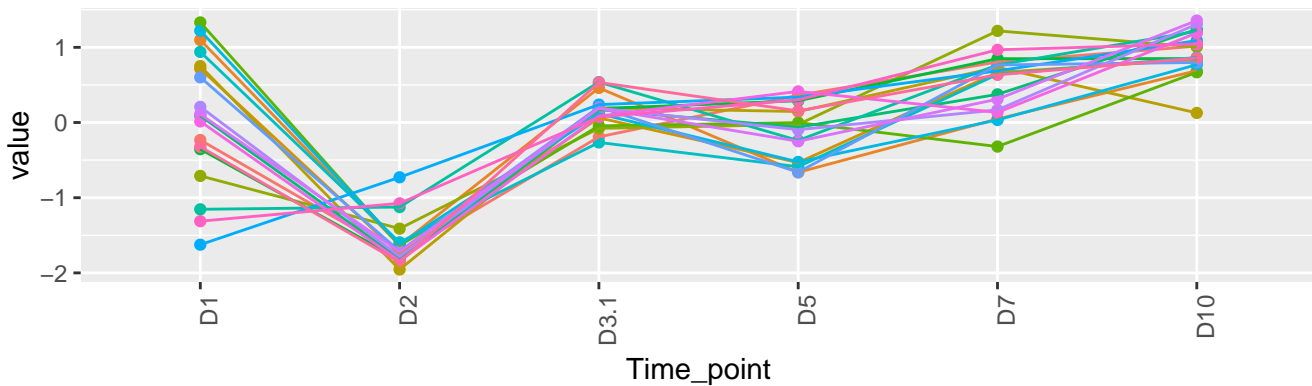
18 genes – WT–cluster–142–standardized



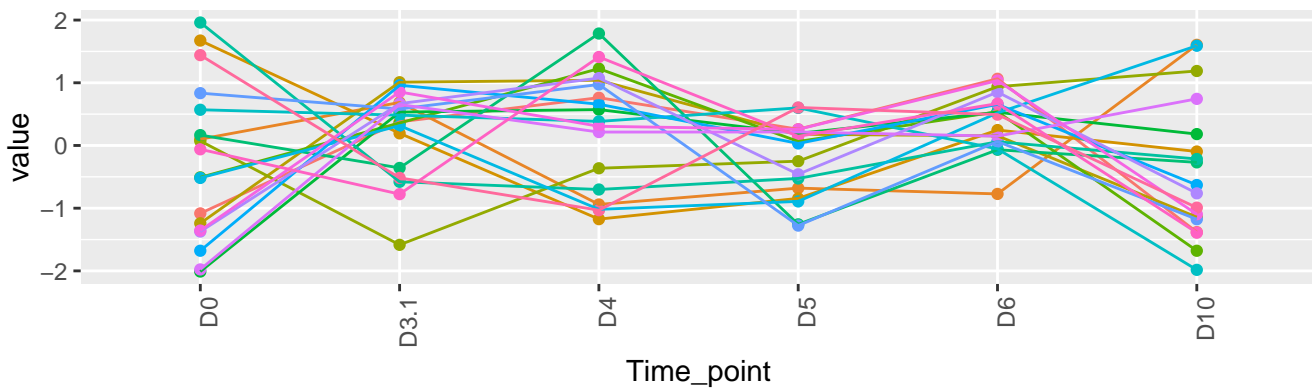
15 genes – KO–cluster–142–standardized



18 genes – WT-cluster-141-standardized

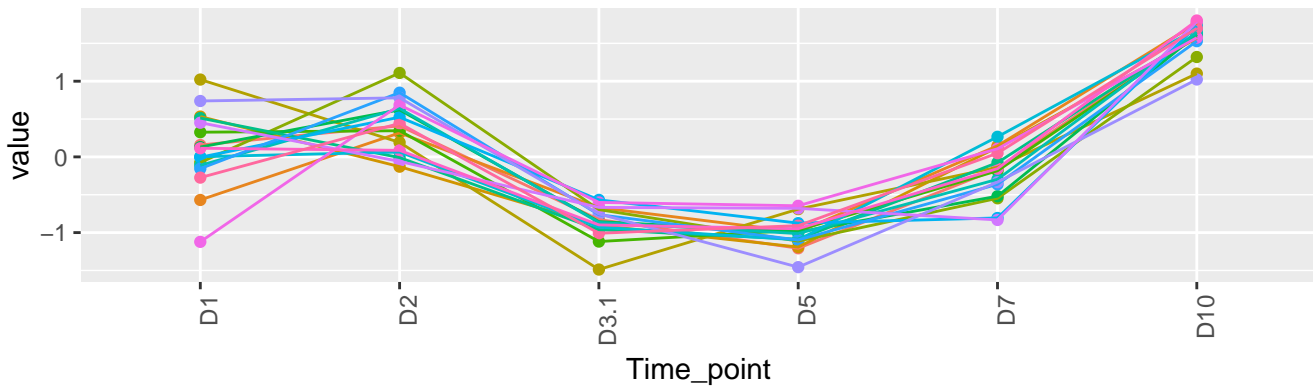


18 genes – KO-cluster-141-standardized

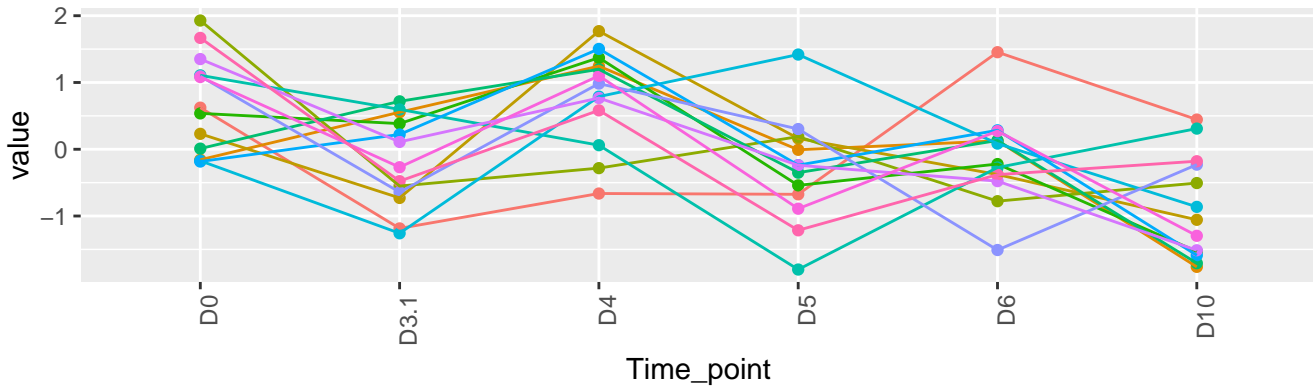




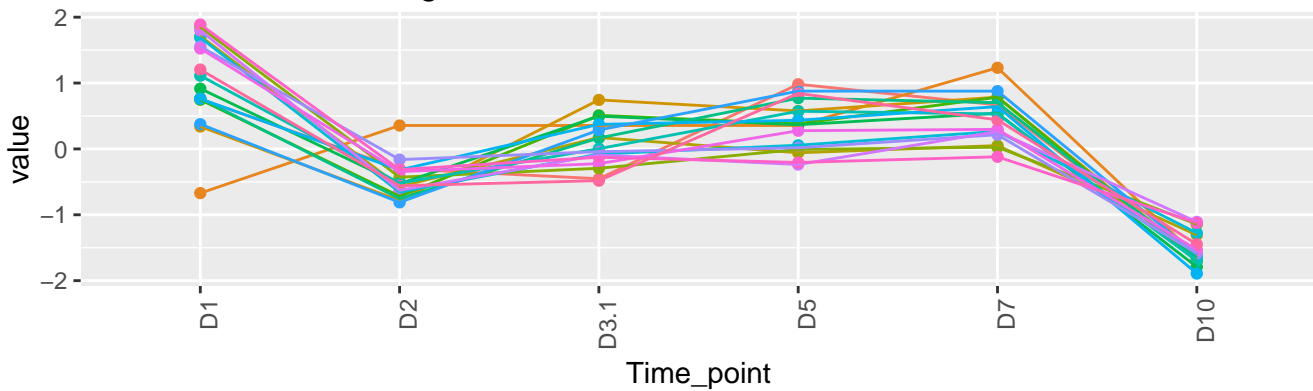
17 genes – WT-cluster-140-standardized



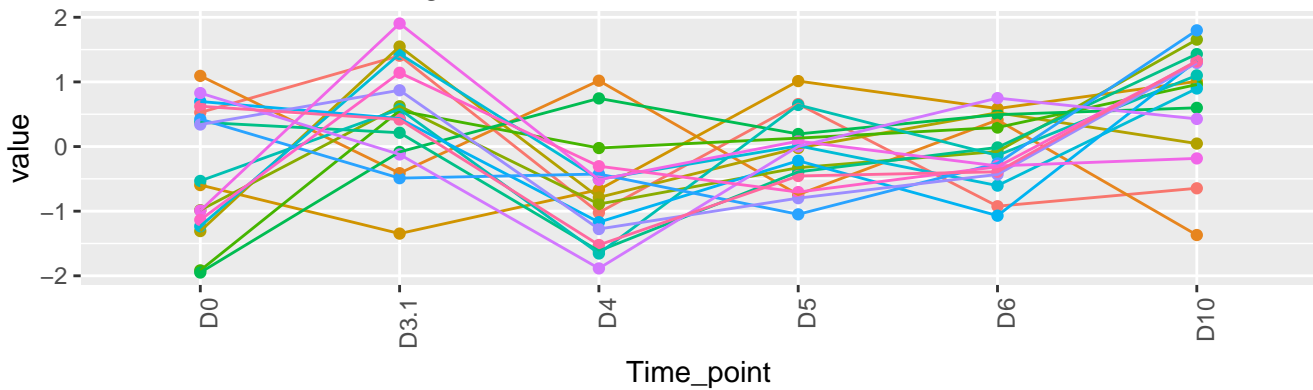
13 genes – KO-cluster-140-standardized



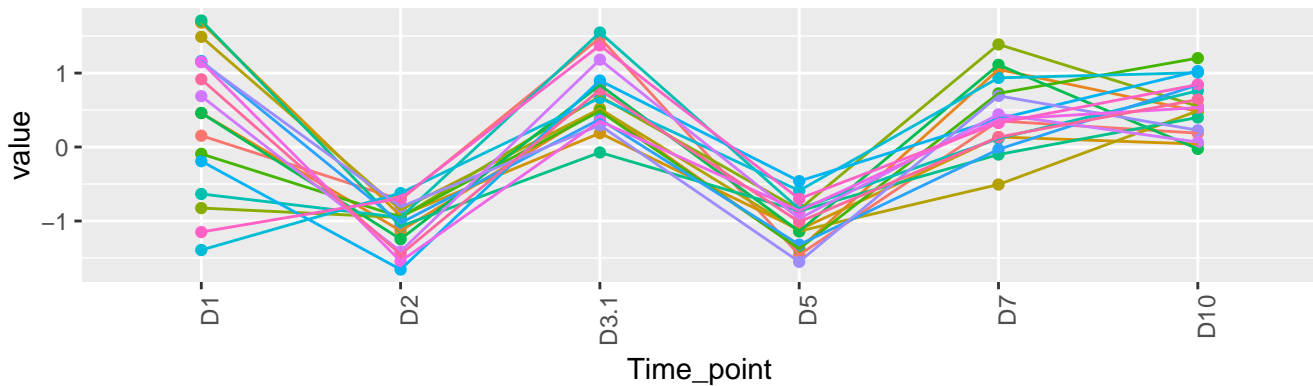
17 genes – WT-cluster-139-standardized



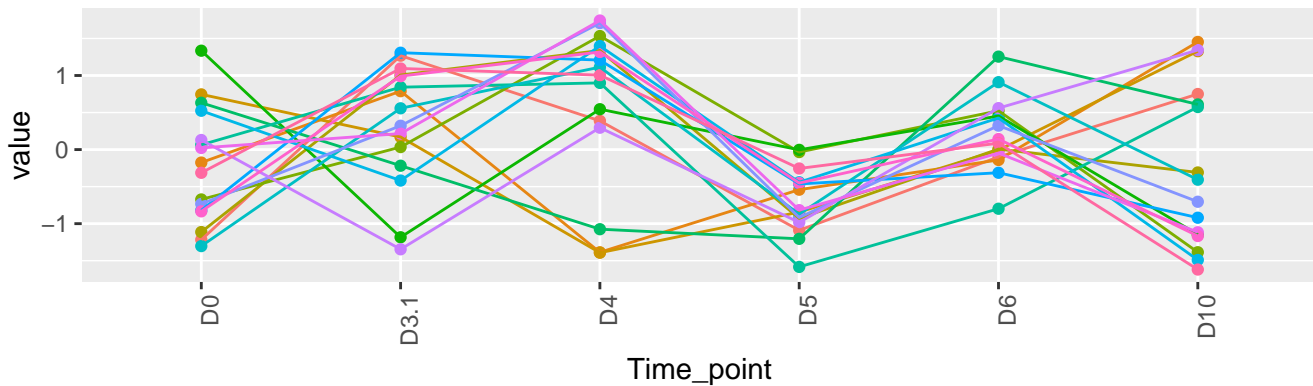
17 genes – KO-cluster-139-standardized



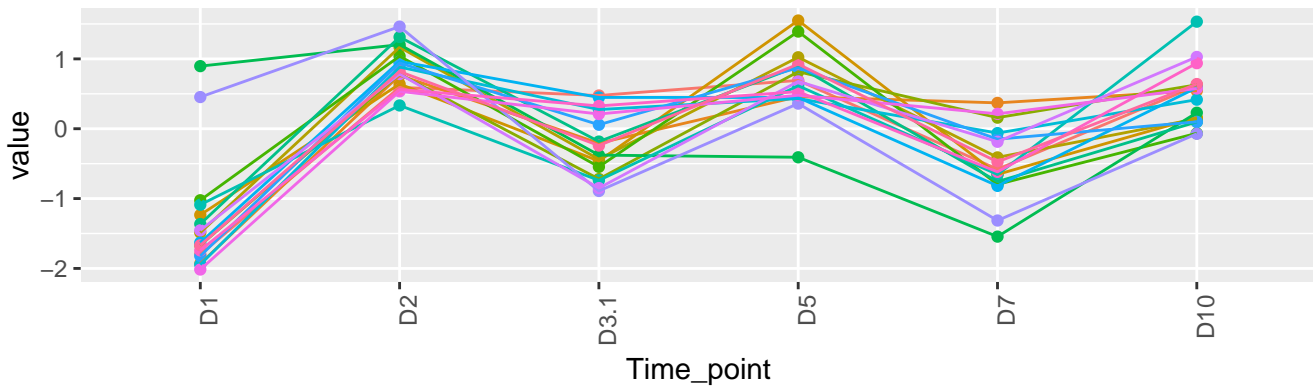
17 genes – WT-cluster-138-standardized



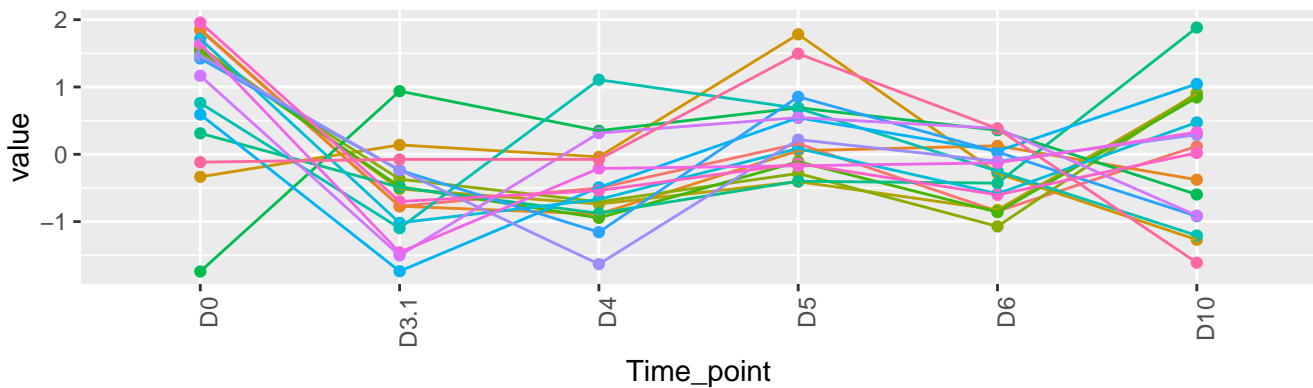
16 genes – KO-cluster-138-standardized



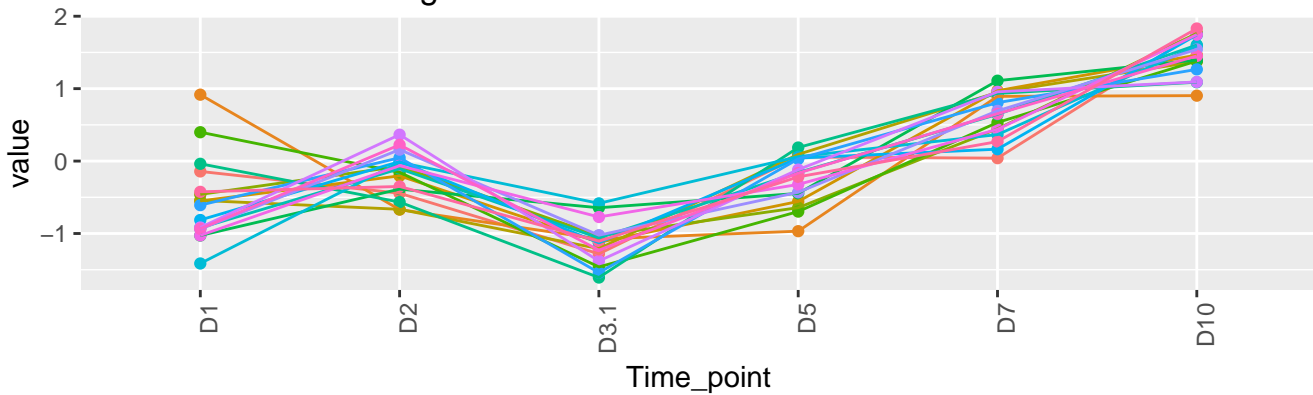
17 genes – WT-cluster-137-standardized



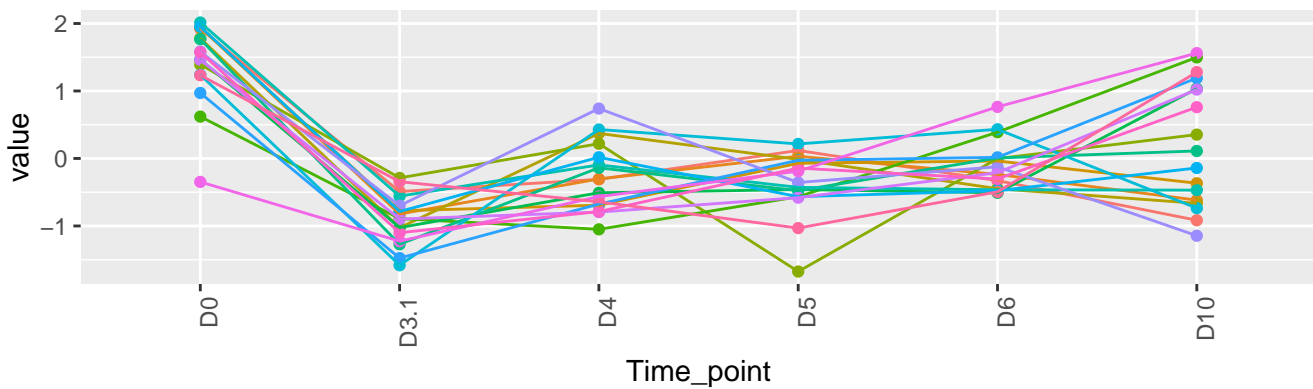
17 genes – KO-cluster-137-standardized



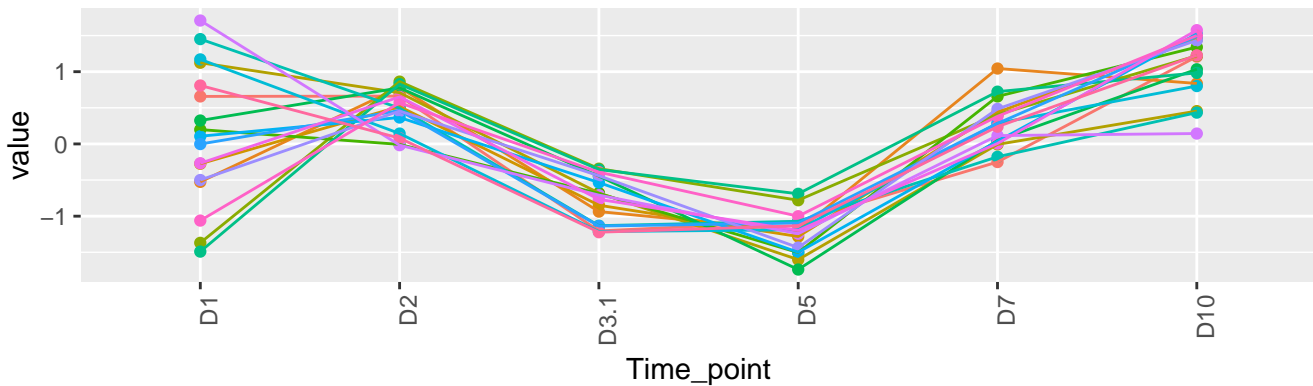
17 genes – WT-cluster-136-standardized



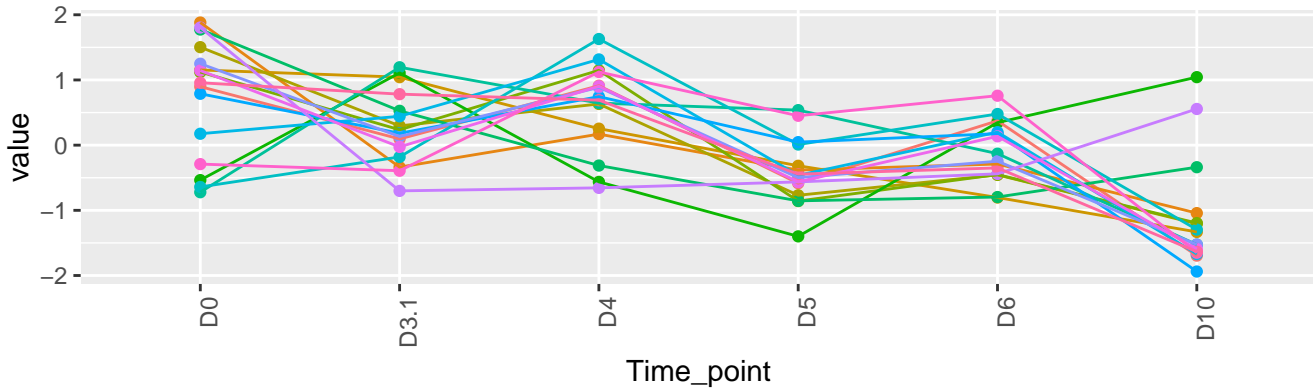
17 genes – KO-cluster-136-standardized



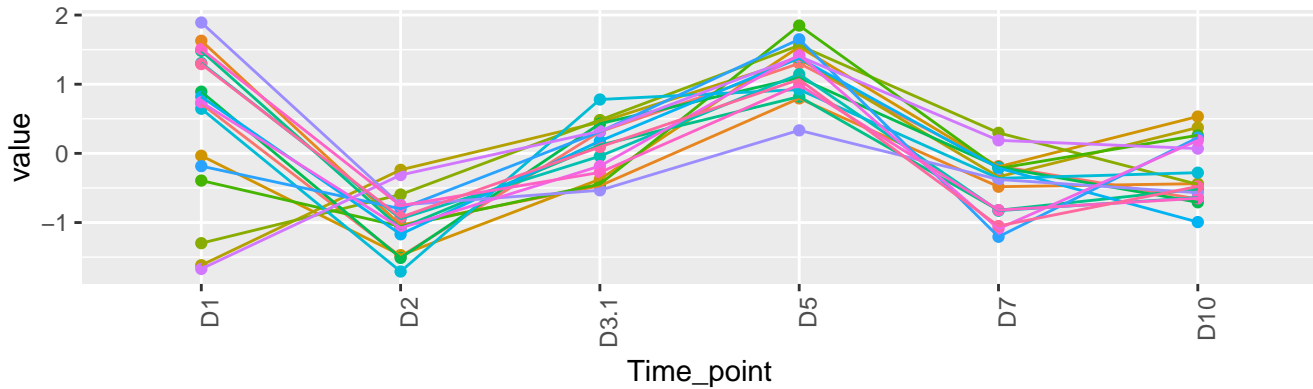
17 genes – WT-cluster-135-standardized



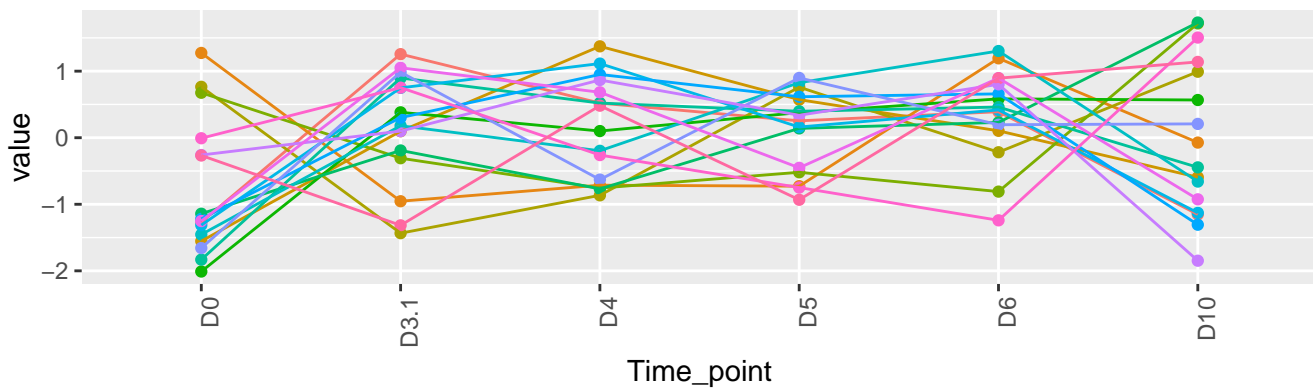
16 genes – KO-cluster-135-standardized



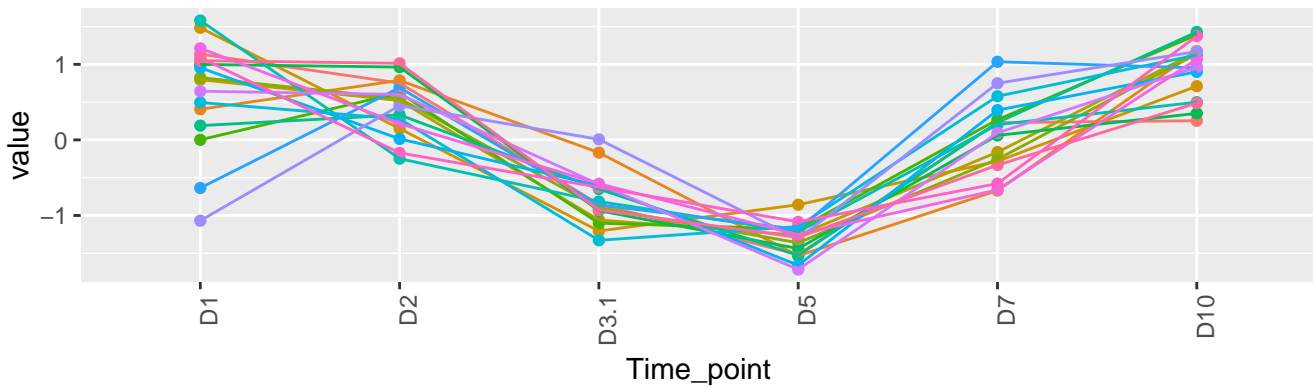
17 genes – WT-cluster-134-standardized



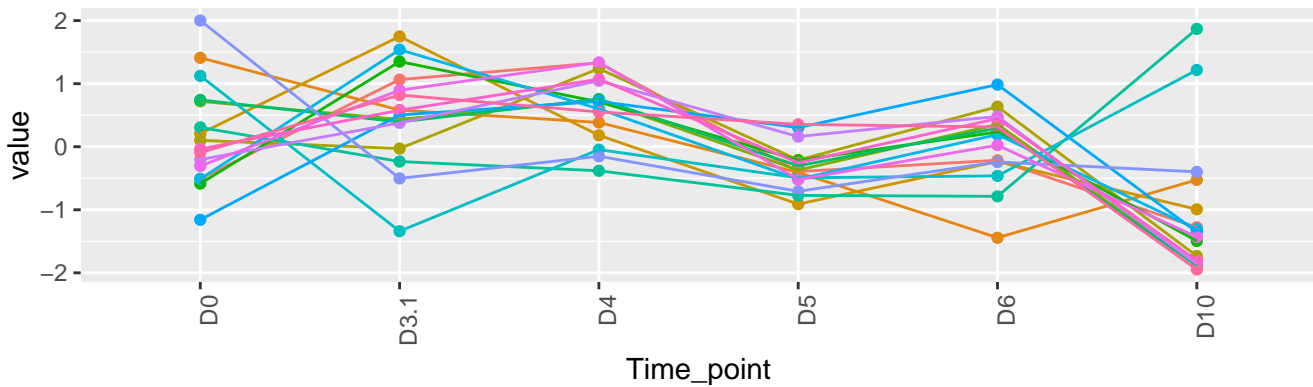
16 genes – KO-cluster-134-standardized



17 genes – WT-cluster-133-standardized

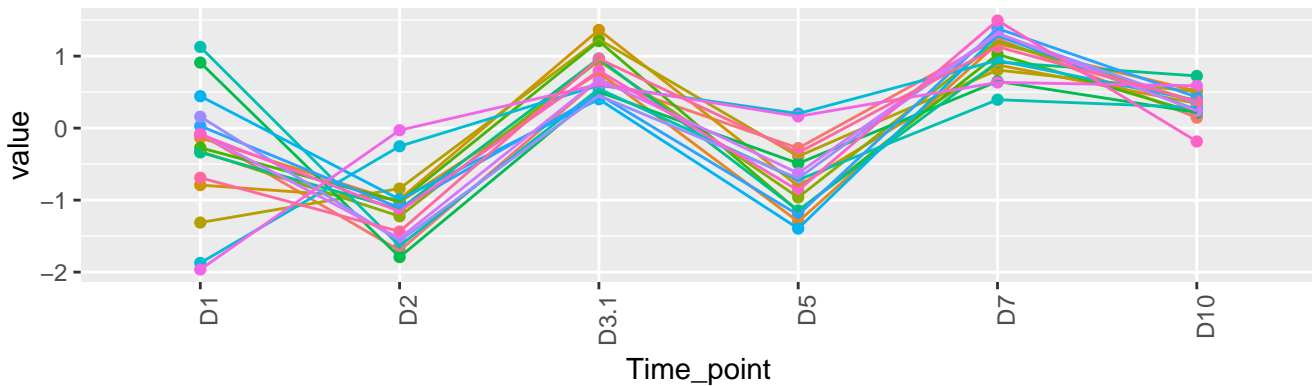


16 genes – KO-cluster-133-standardized

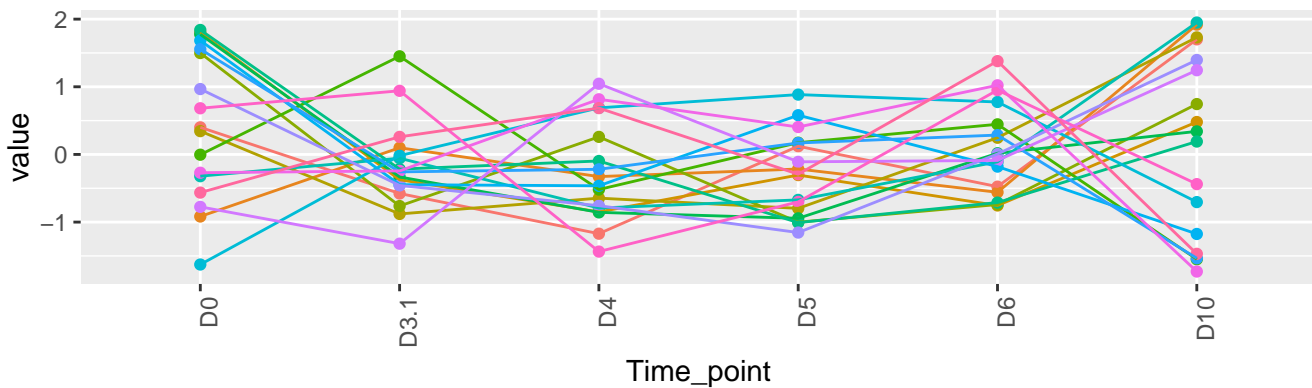




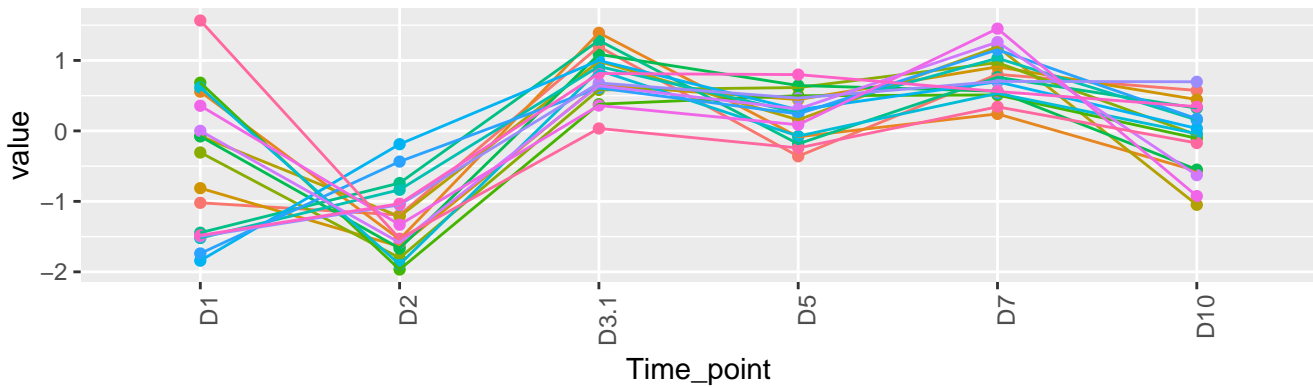
17 genes – WT-cluster-132-standardized



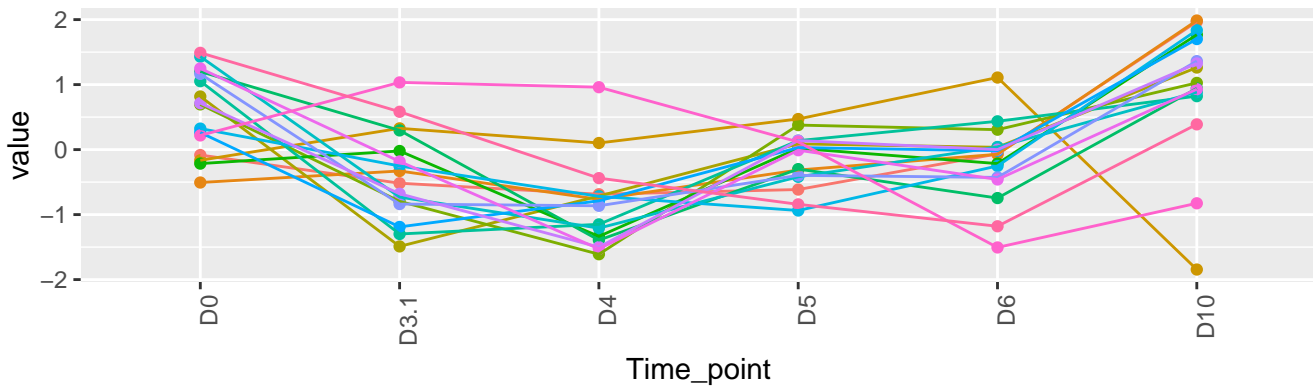
17 genes – KO-cluster-132-standardized



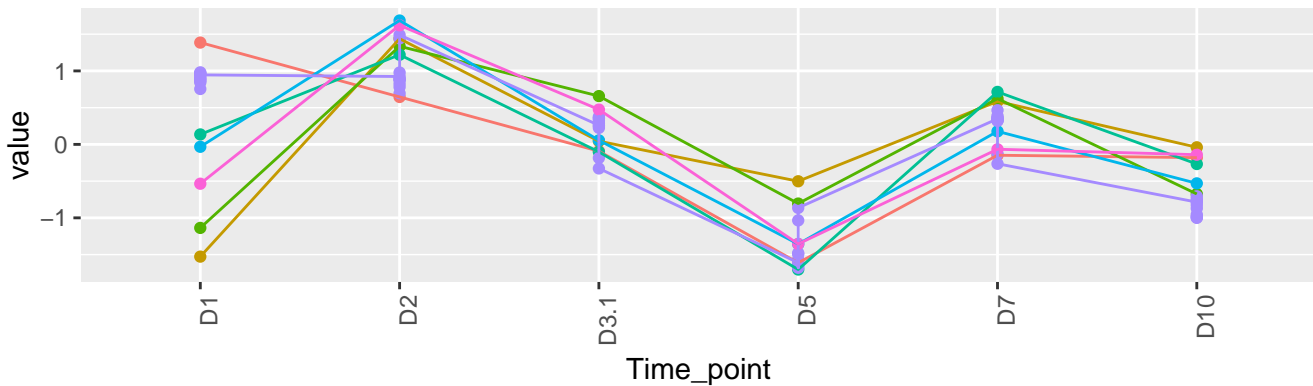
17 genes – WT-cluster-131-standardized



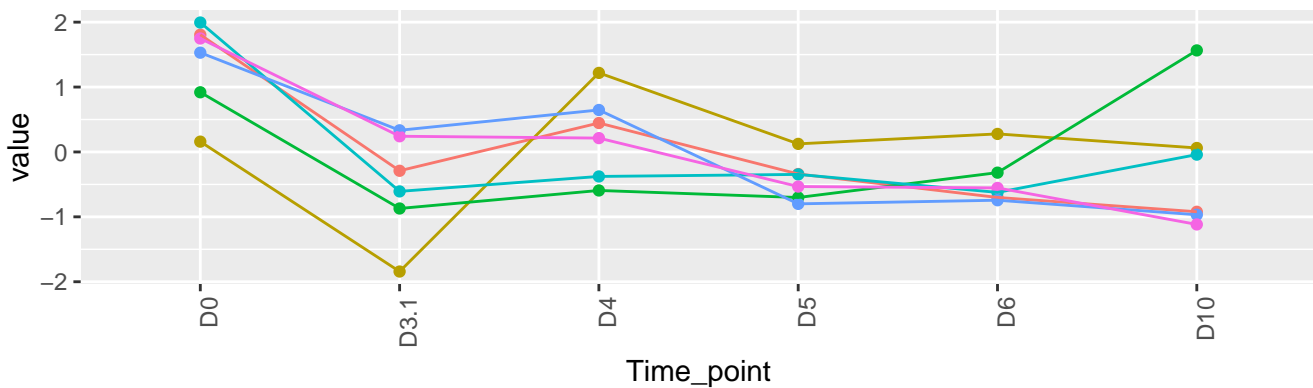
16 genes – KO-cluster-131-standardized



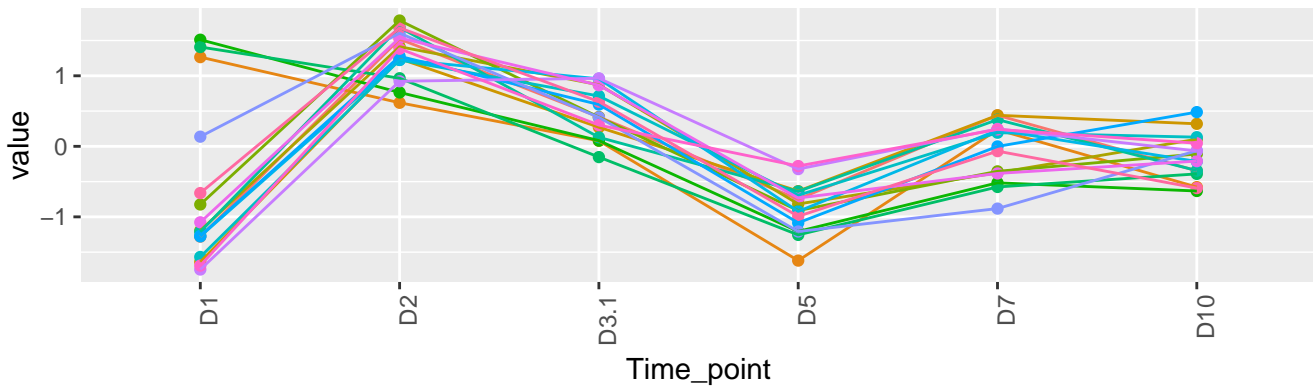
16 genes – WT-cluster-130-standardized



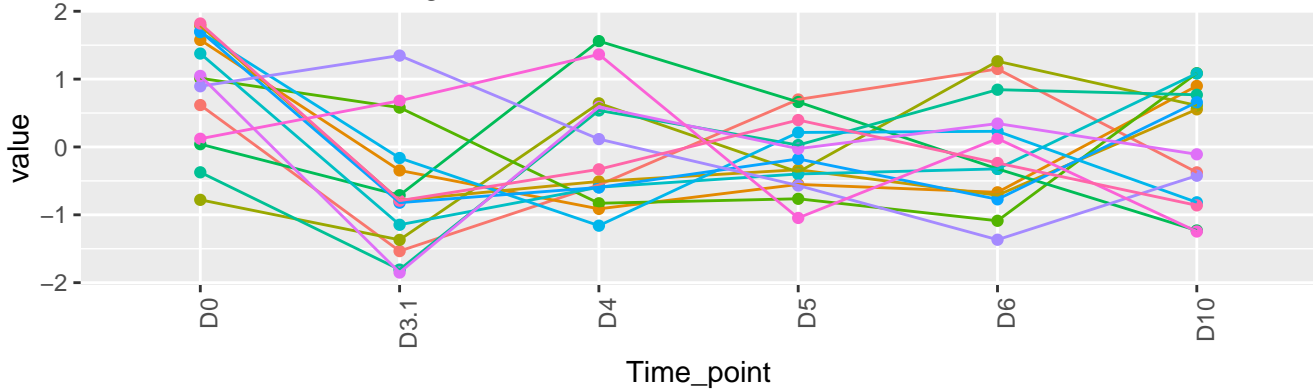
6 genes – KO-cluster-130-standardized



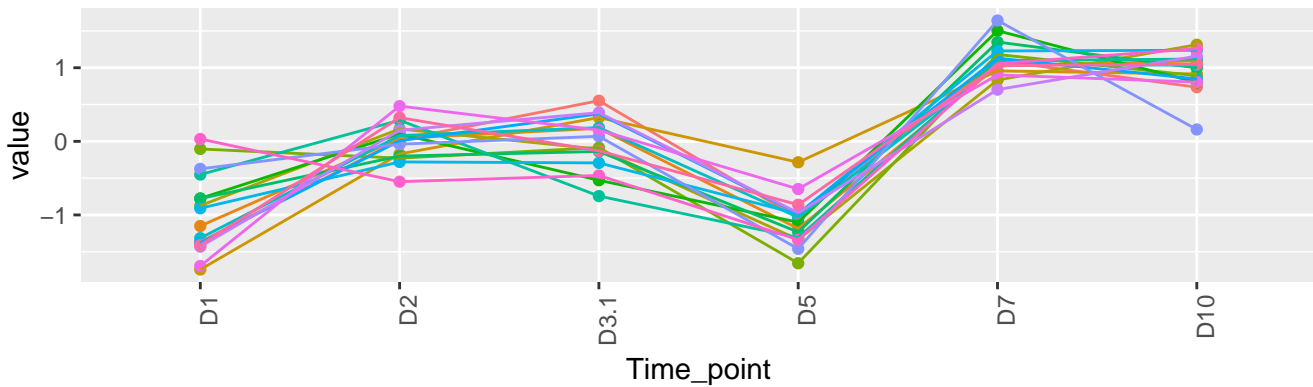
16 genes – WT-cluster-129-standardized



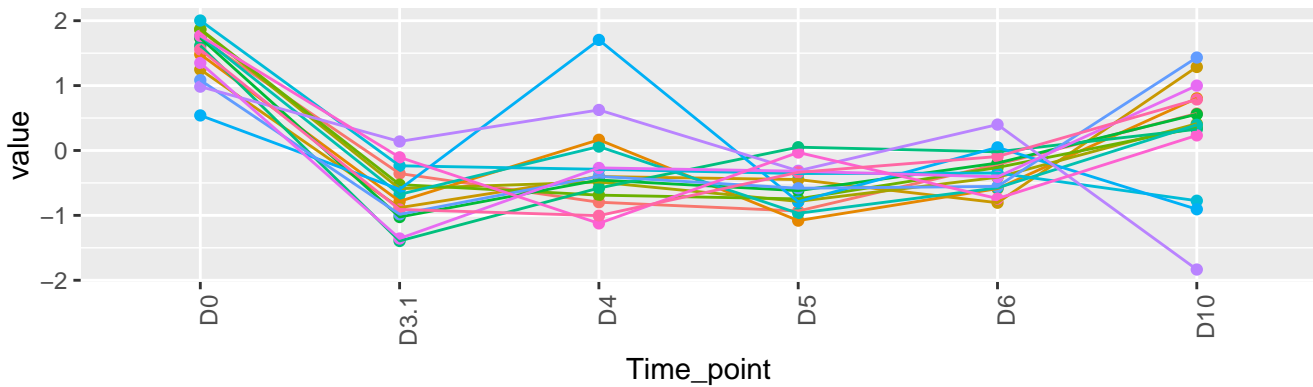
14 genes – KO-cluster-129-standardized



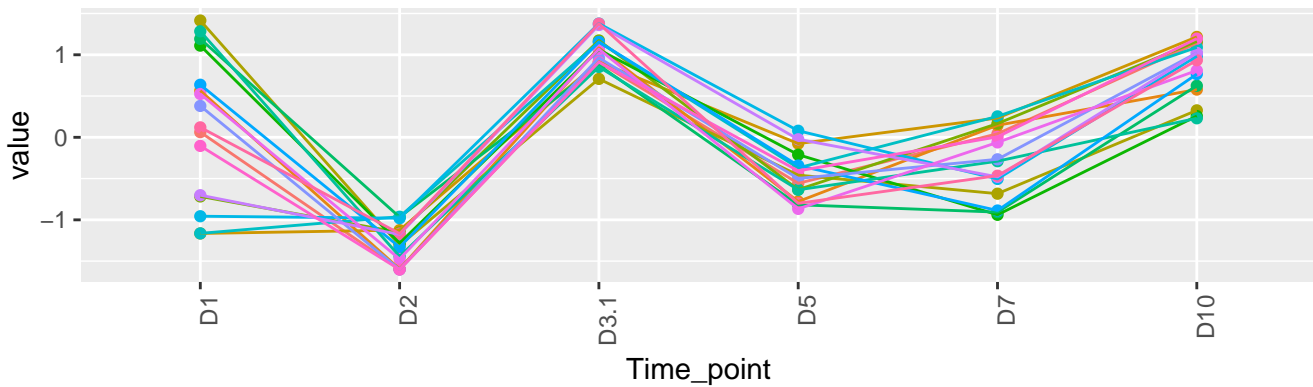
16 genes – WT-cluster-128-standardized



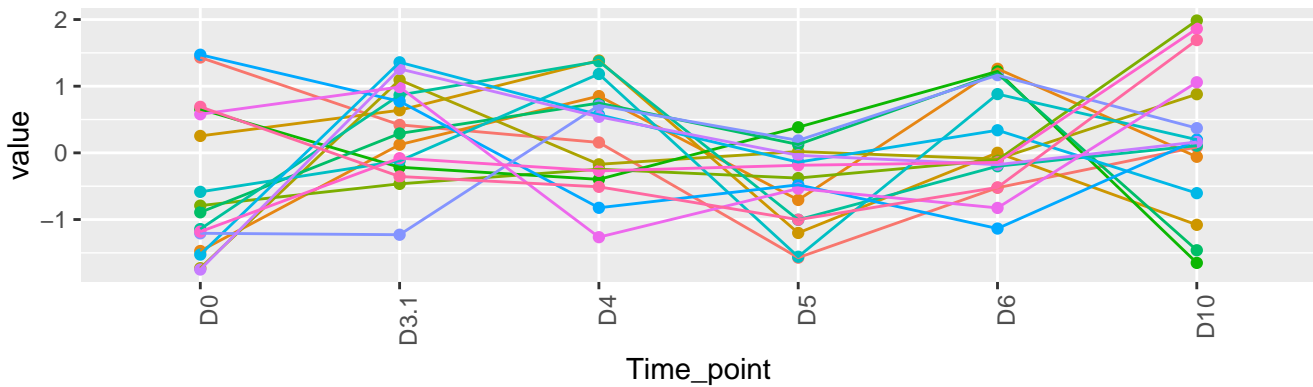
15 genes – KO-cluster-128-standardized



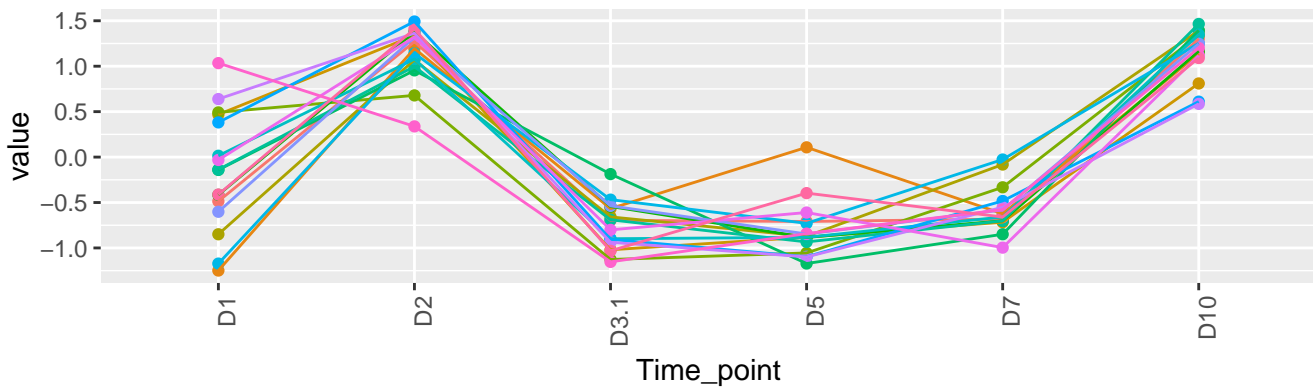
16 genes – WT-cluster-127-standardized



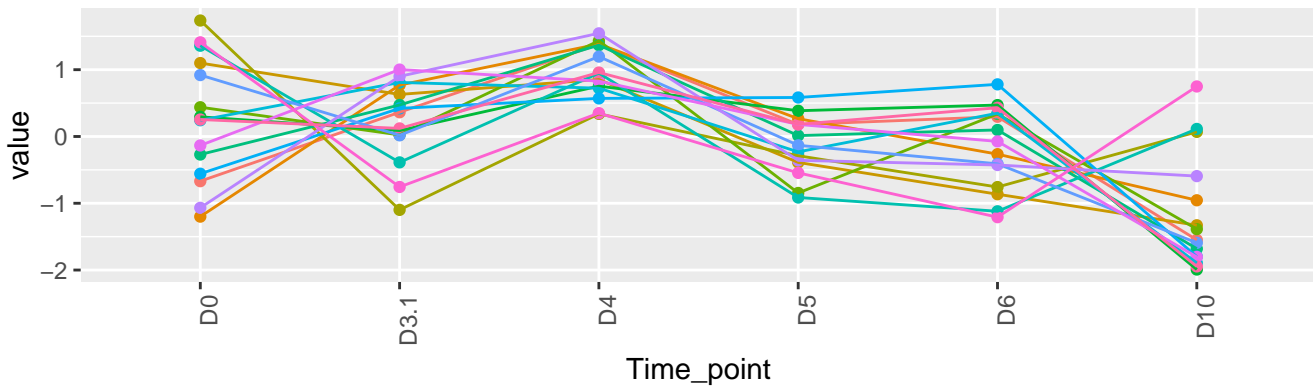
16 genes – KO-cluster-127-standardized



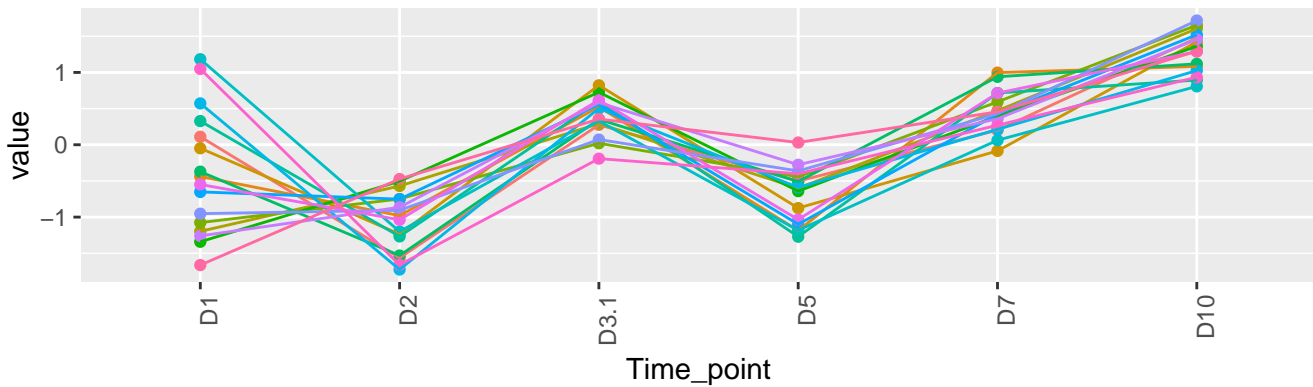
16 genes – WT-cluster-126-standardized



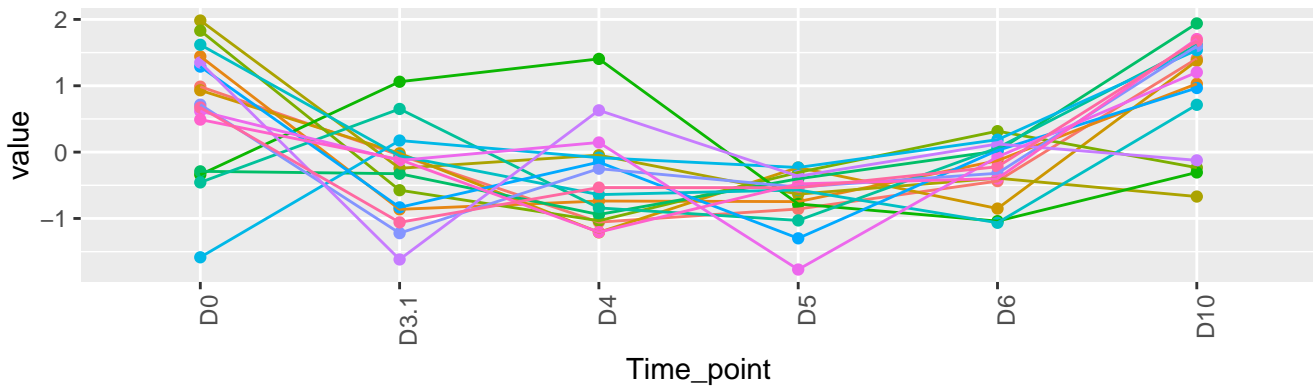
15 genes – KO-cluster-126-standardized



16 genes – WT-cluster-125-standardized

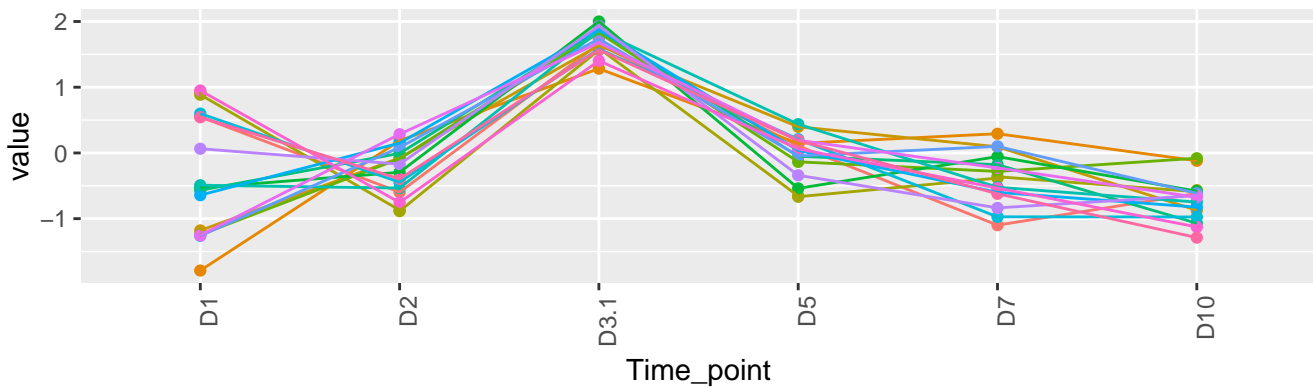


16 genes – KO-cluster-125-standardized

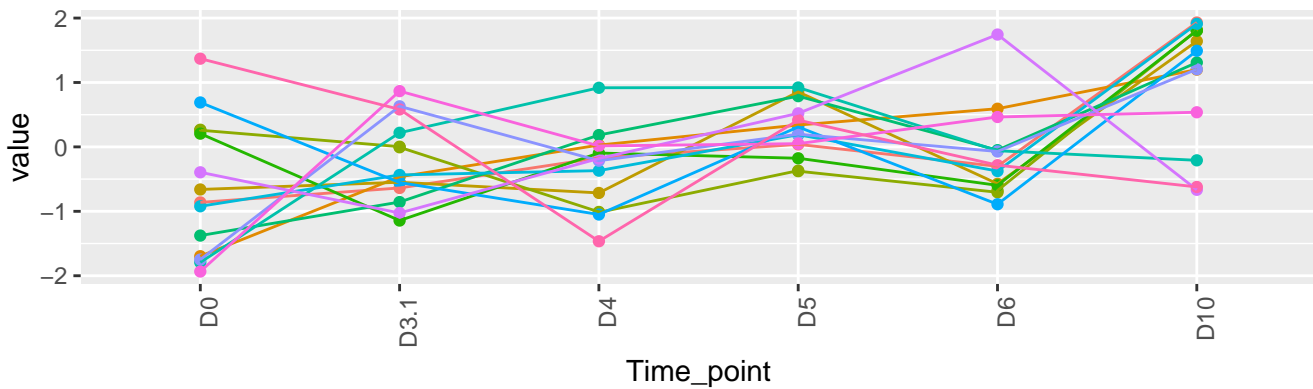




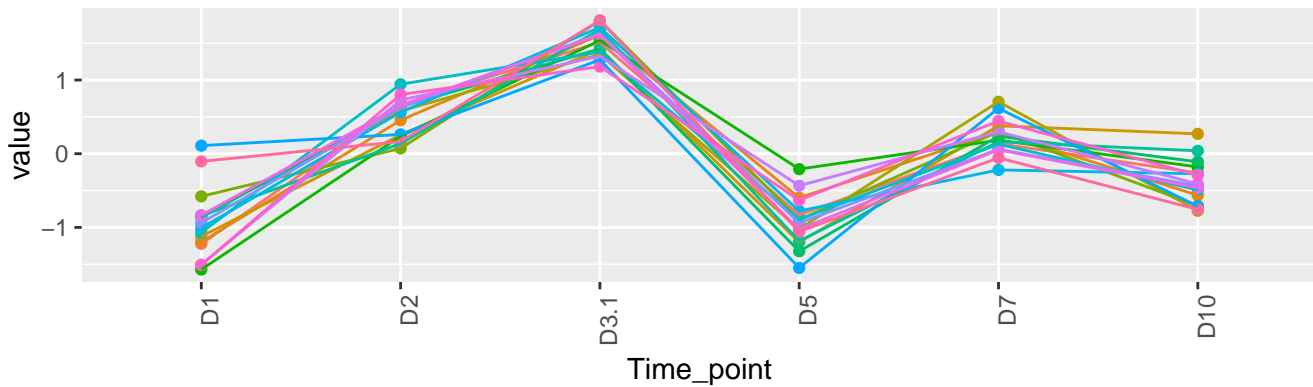
16 genes – WT-cluster-124-standardized



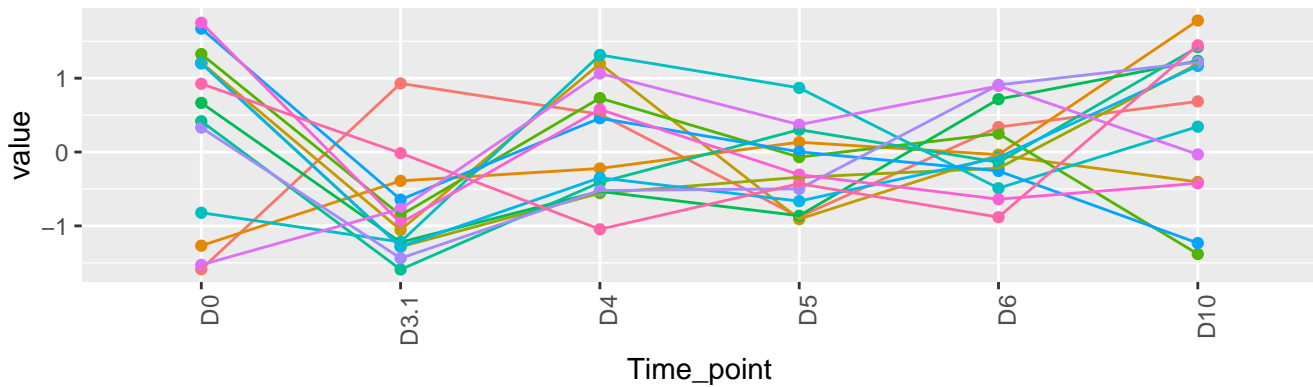
14 genes – KO-cluster-124-standardized



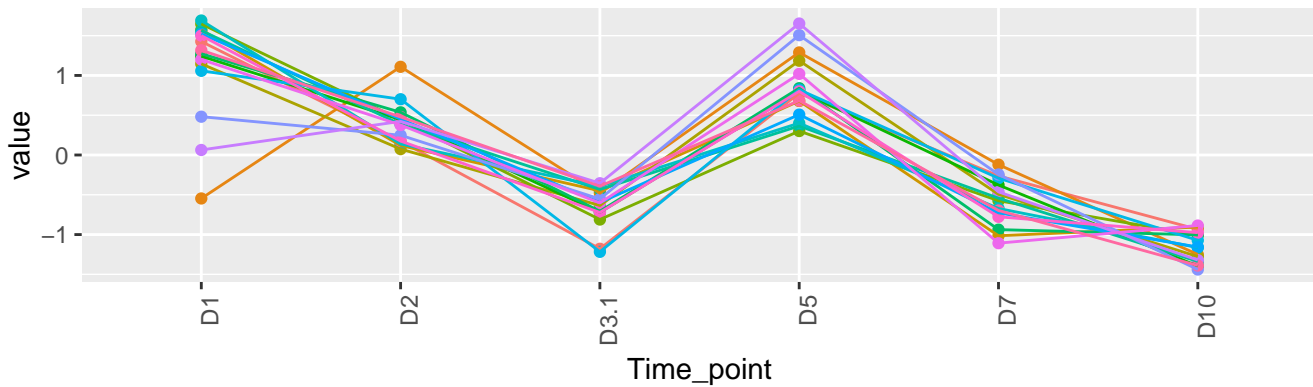
16 genes – WT-cluster-123-standardized



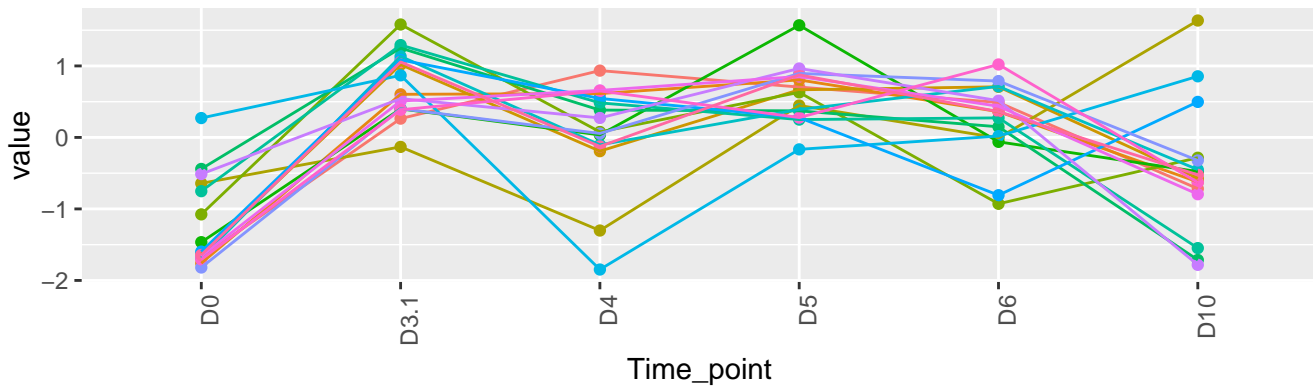
14 genes – KO-cluster-123-standardized



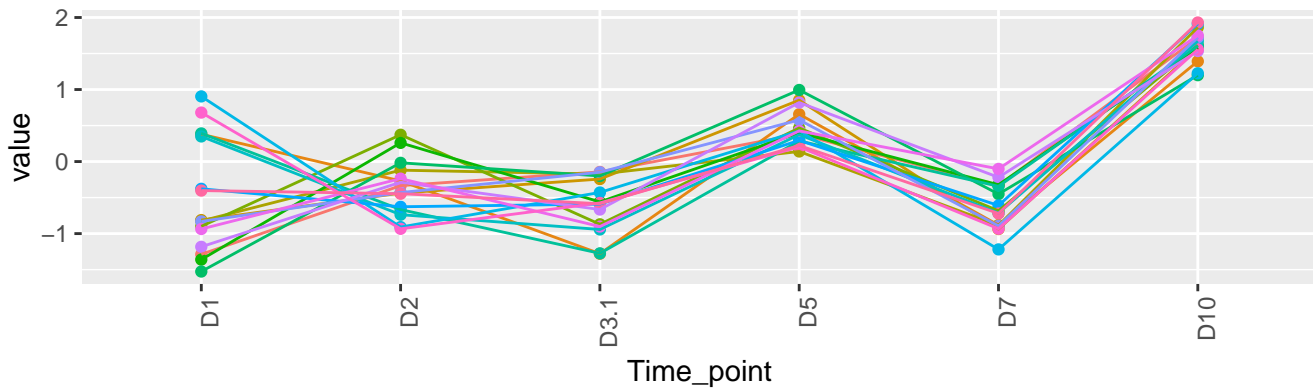
16 genes – WT-cluster-122-standardized



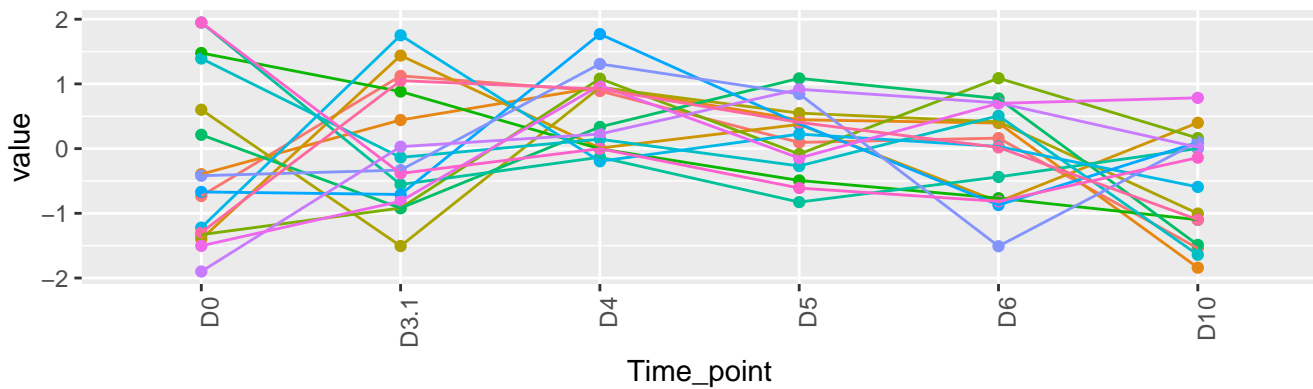
16 genes – KO-cluster-122-standardized



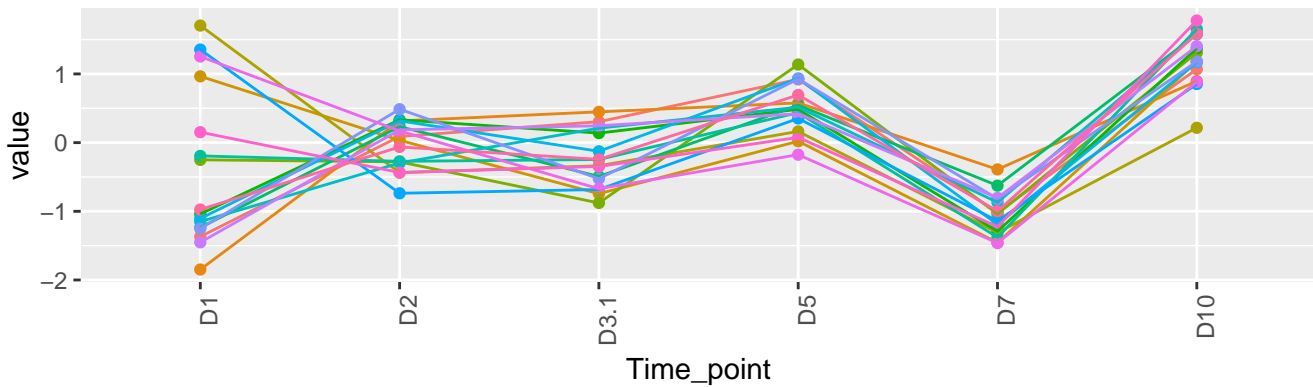
16 genes – WT-cluster-121-standardized



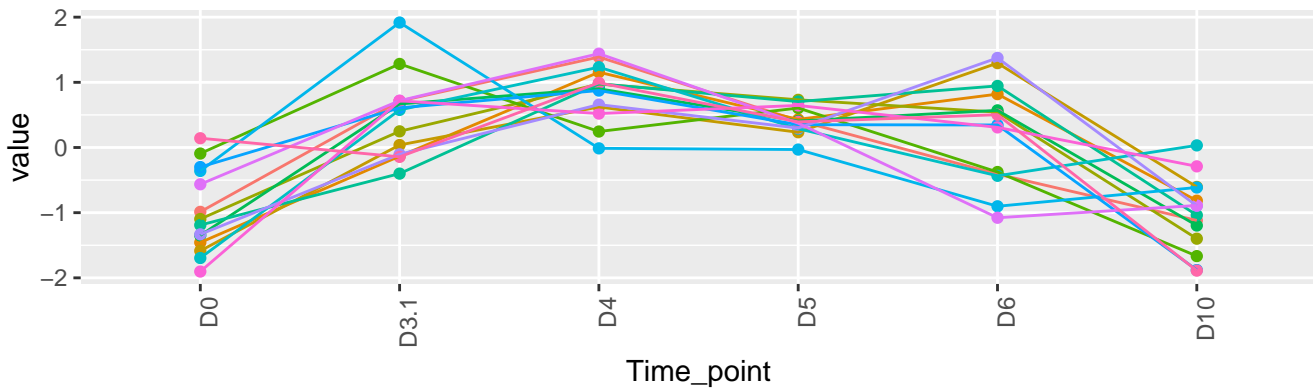
16 genes – KO-cluster-121-standardized



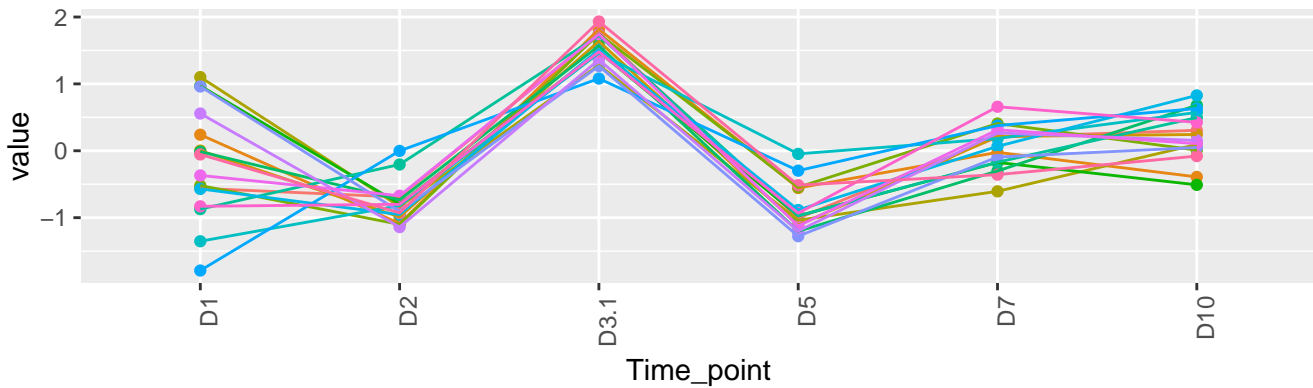
16 genes – WT-cluster-120-standardized



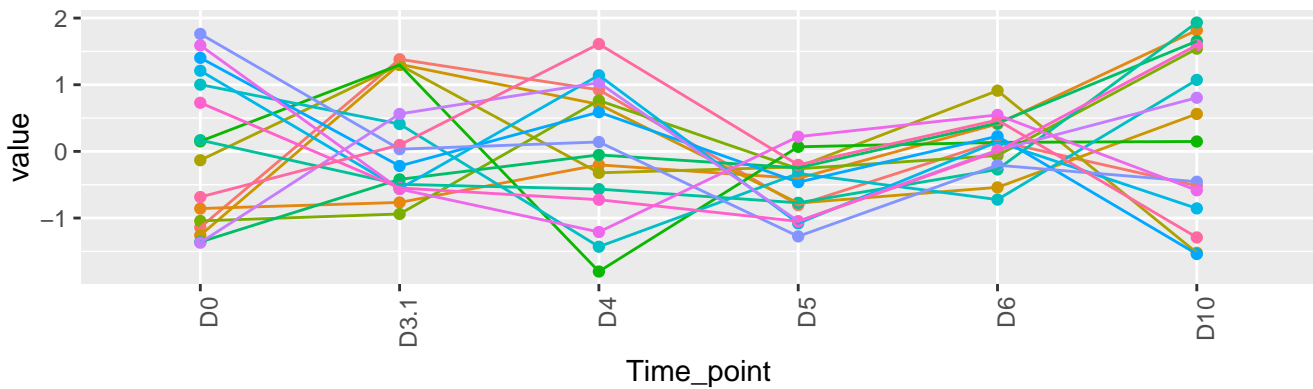
14 genes – KO-cluster-120-standardized



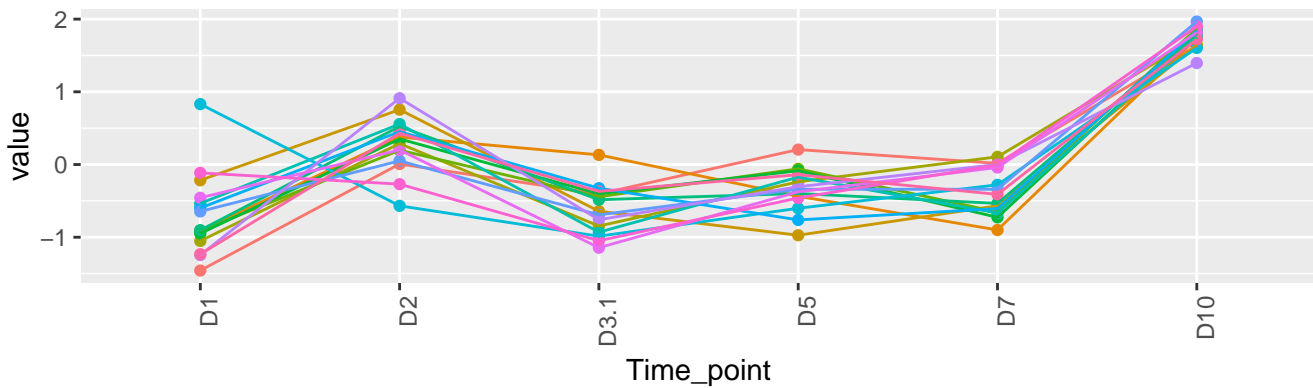
16 genes – WT-cluster-119-standardized



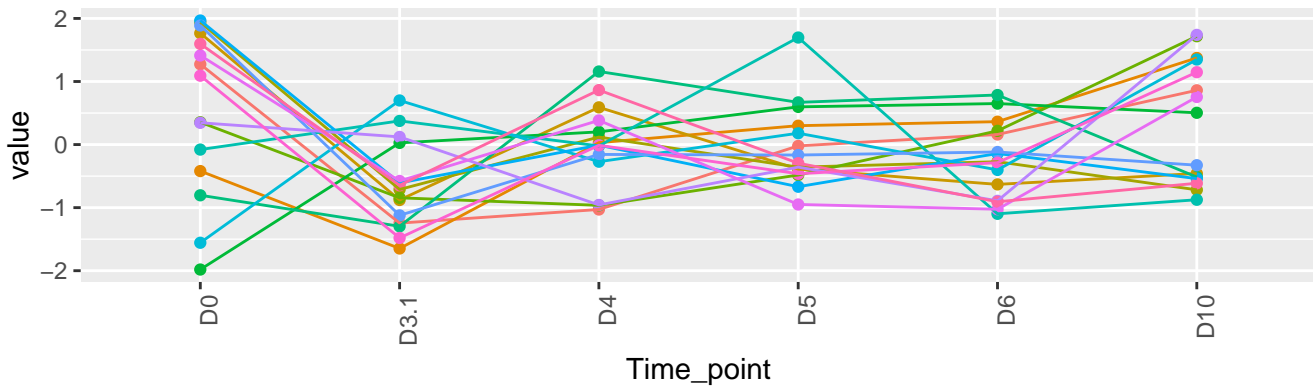
16 genes – KO-cluster-119-standardized



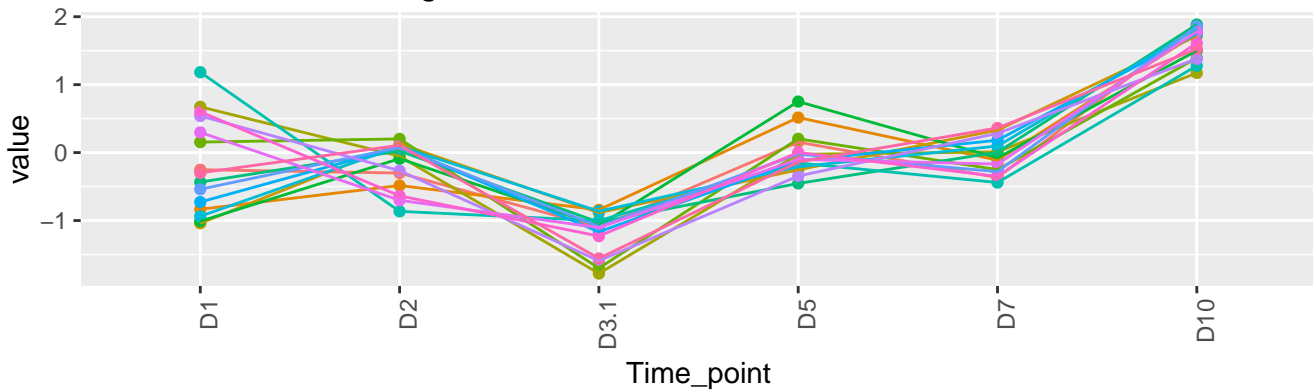
15 genes – WT-cluster-118-standardized



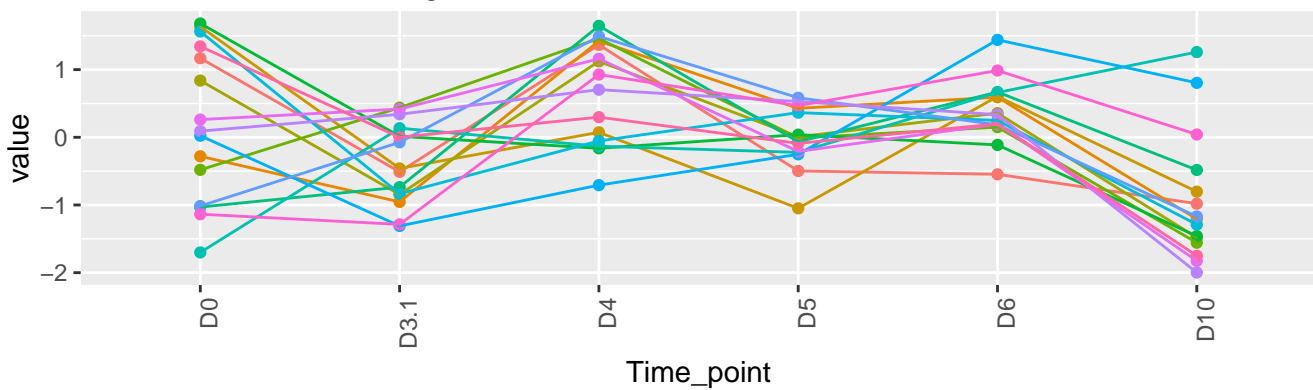
15 genes – KO-cluster-118-standardized



15 genes – WT-cluster-117-standardized

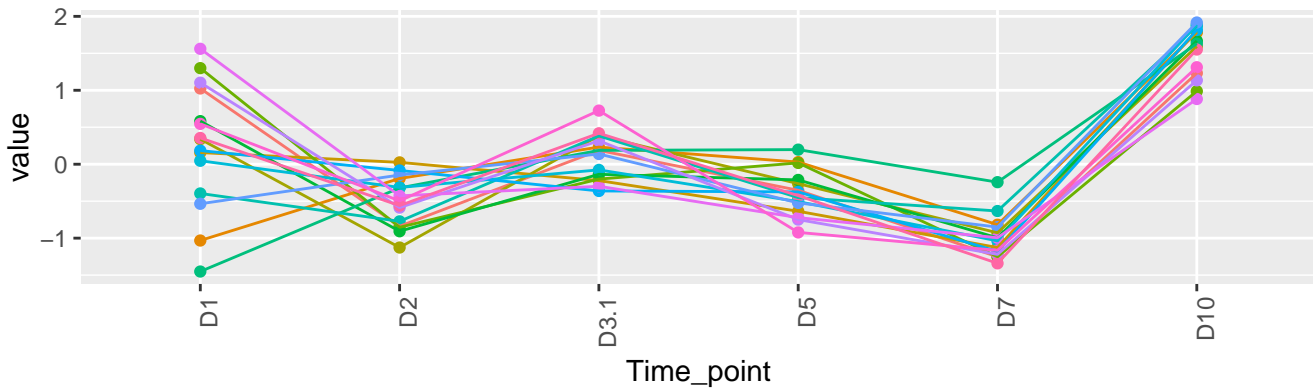


15 genes – KO-cluster-117-standardized

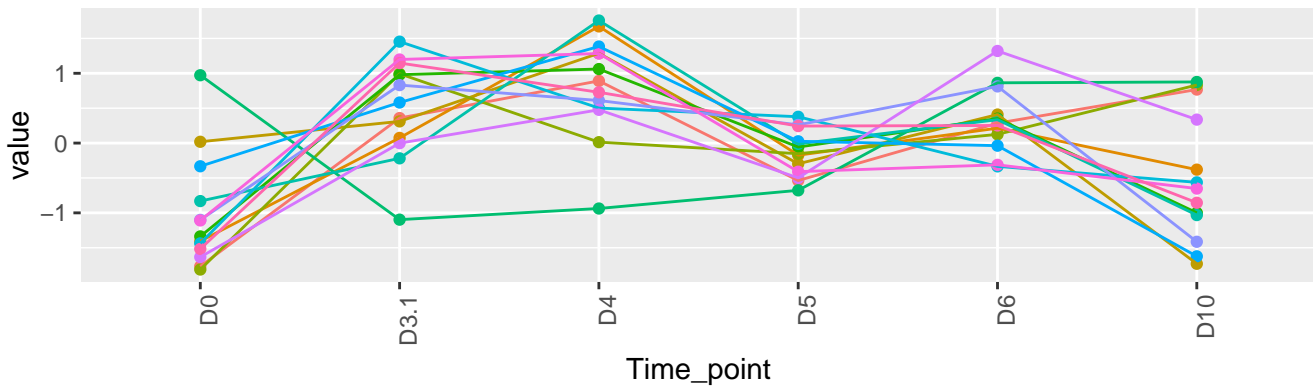




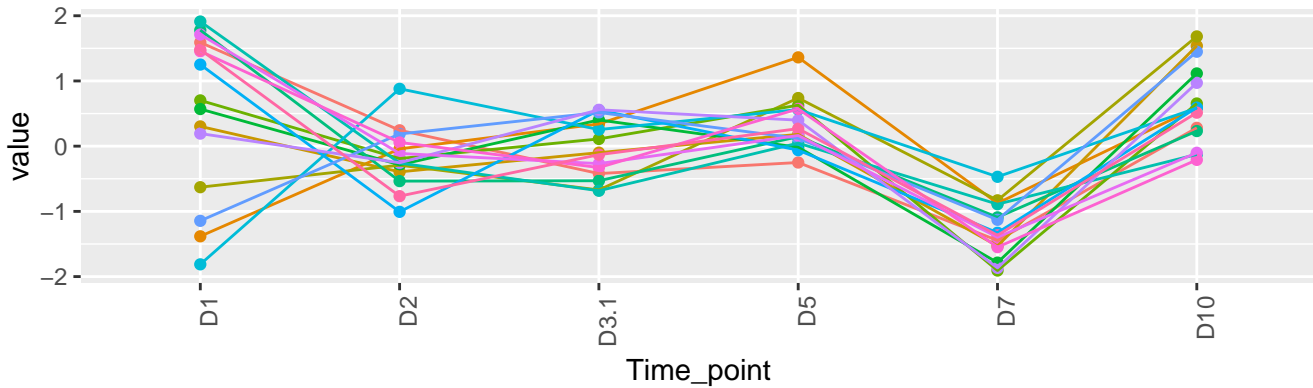
15 genes – WT-cluster-116-standardized



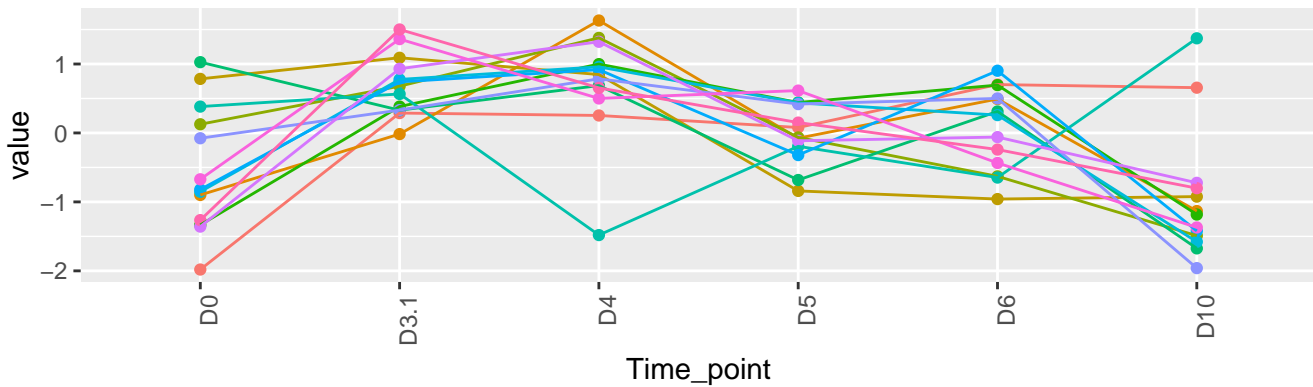
13 genes – KO-cluster-116-standardized



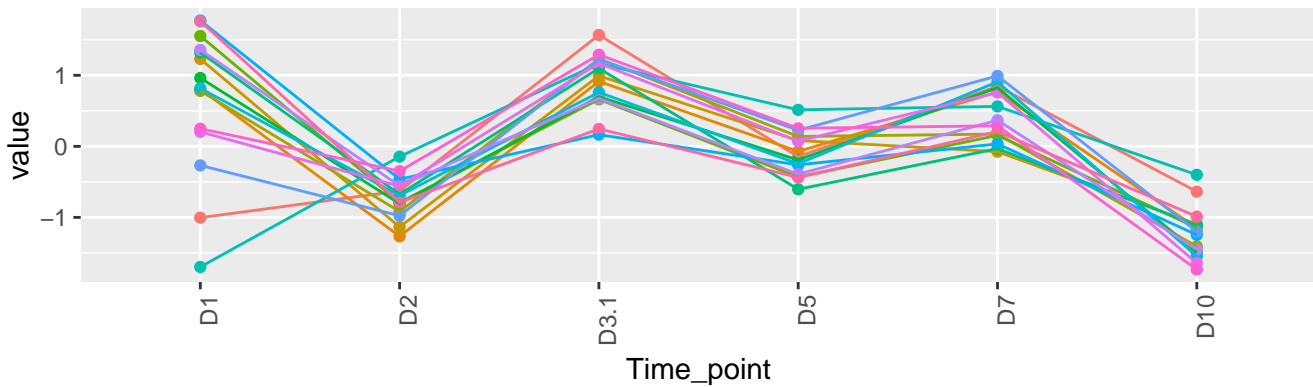
15 genes – WT-cluster-115-standardized



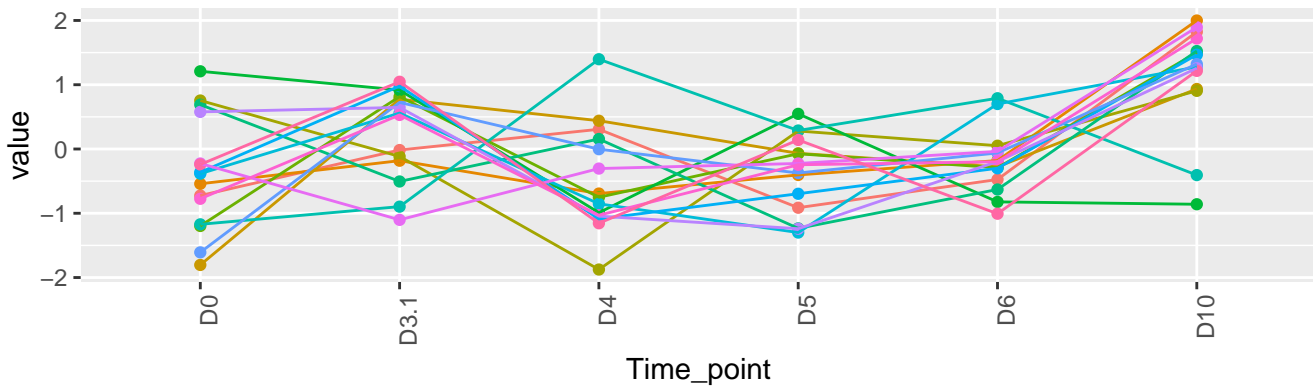
13 genes – KO-cluster-115-standardized



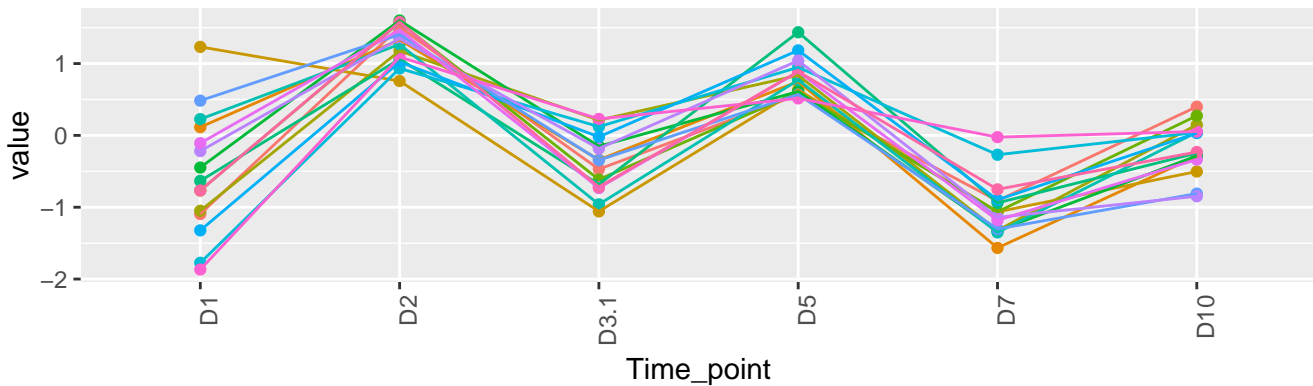
15 genes – WT-cluster-114-standardized



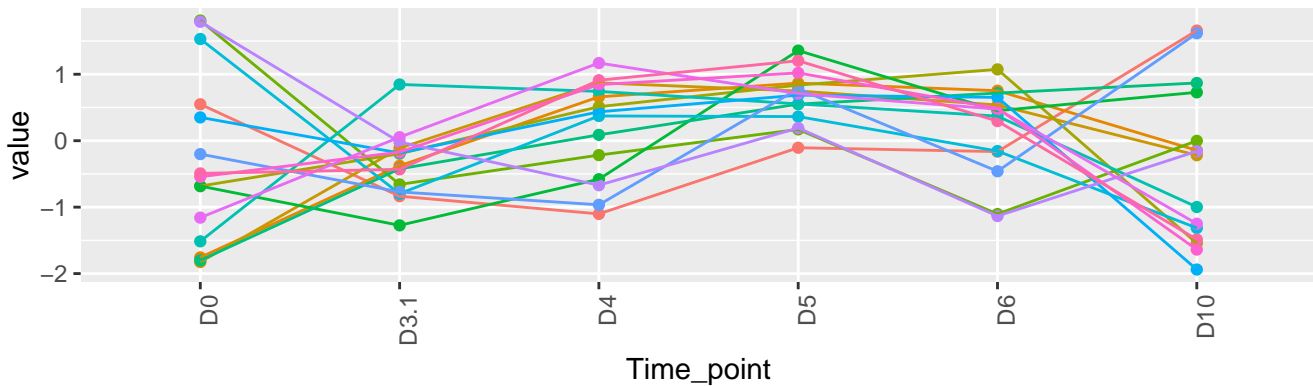
15 genes – KO-cluster-114-standardized



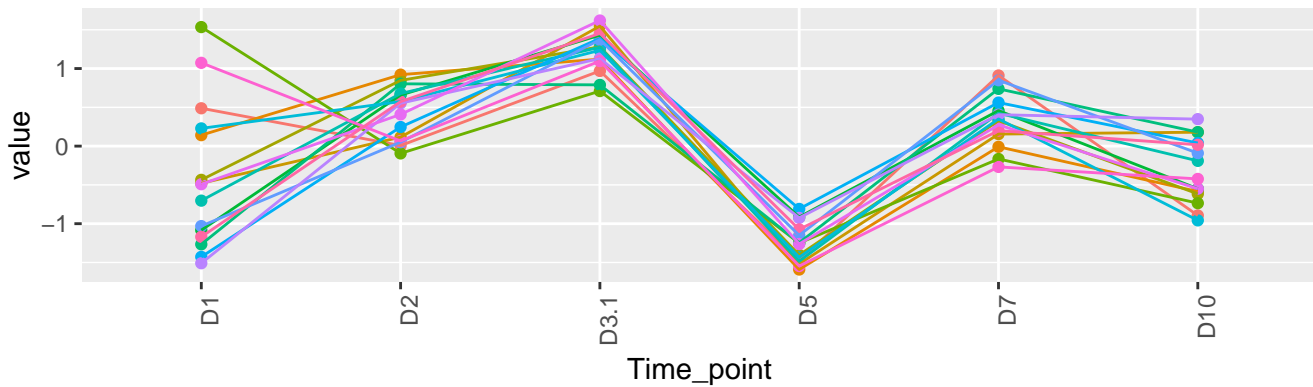
15 genes – WT-cluster-113-standardized



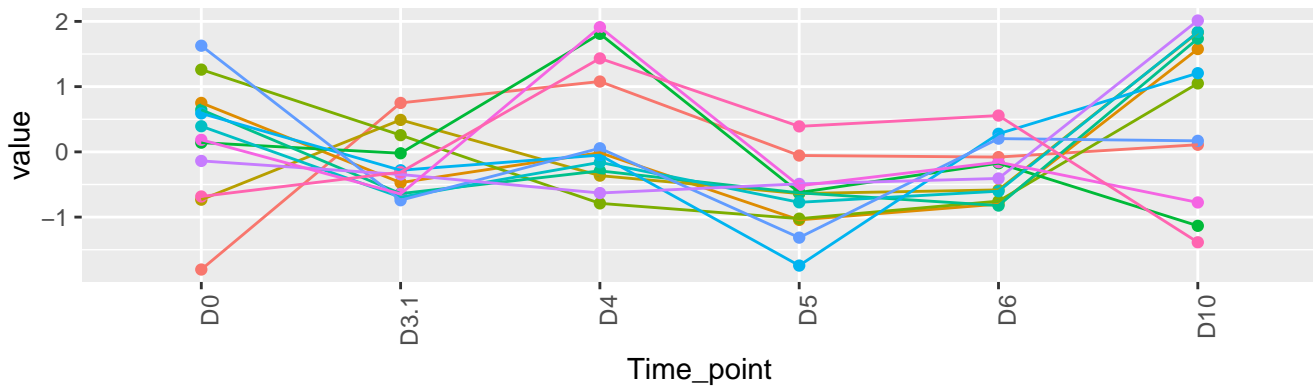
15 genes – KO-cluster-113-standardized



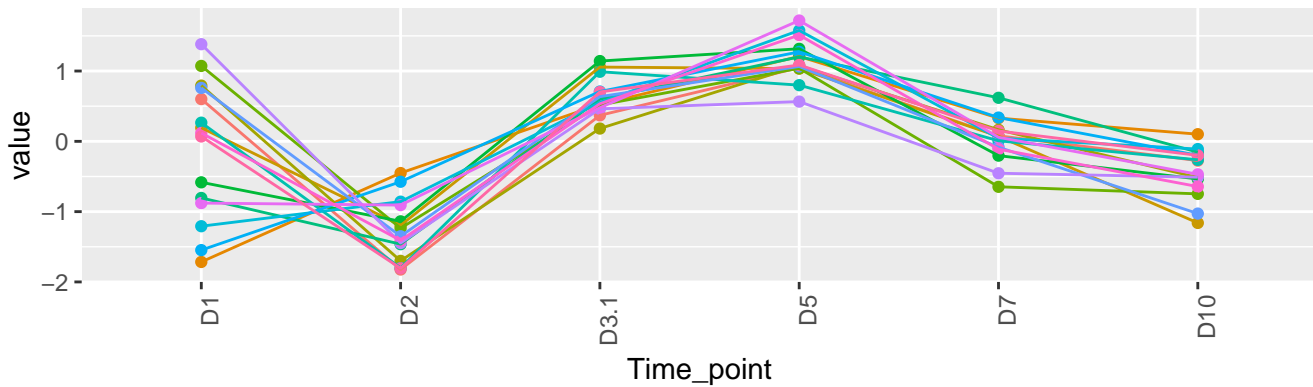
15 genes – WT-cluster-112-standardized



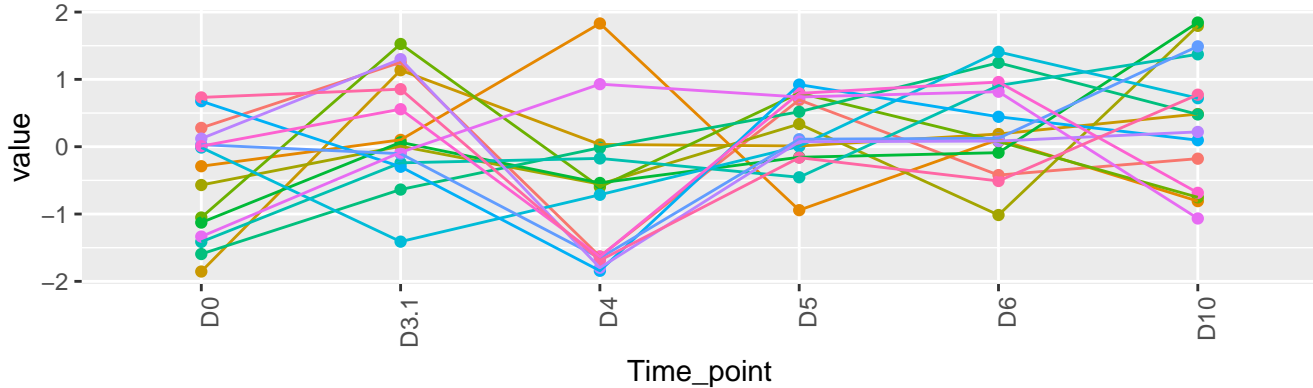
12 genes – KO-cluster-112-standardized



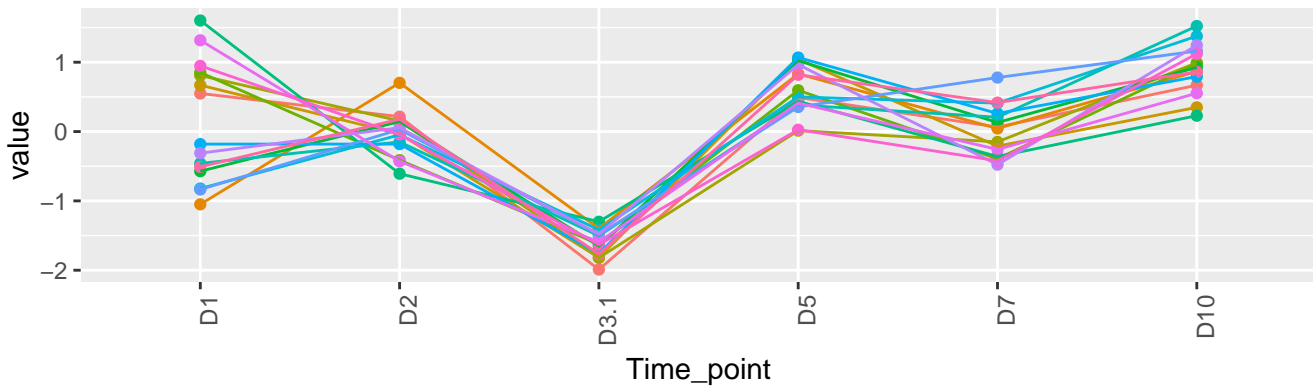
15 genes – WT-cluster-111-standardized



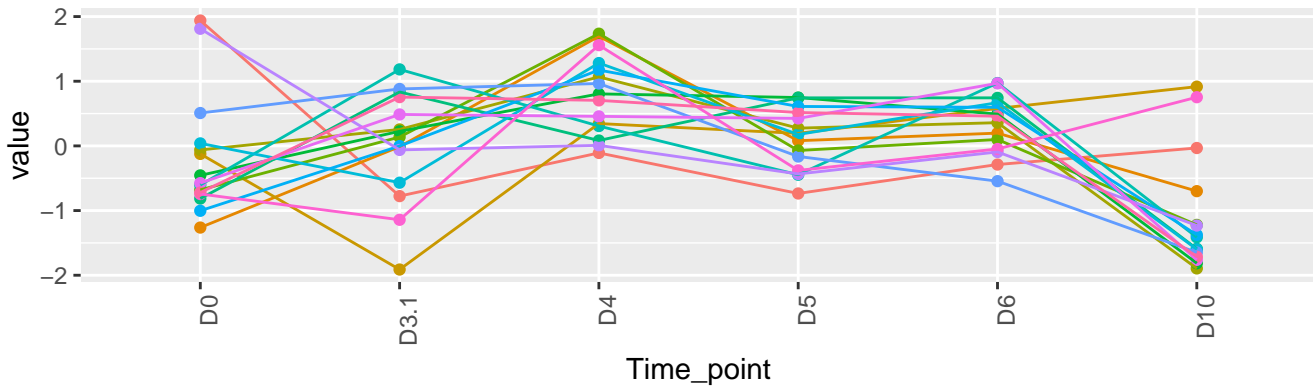
15 genes – KO-cluster-111-standardized



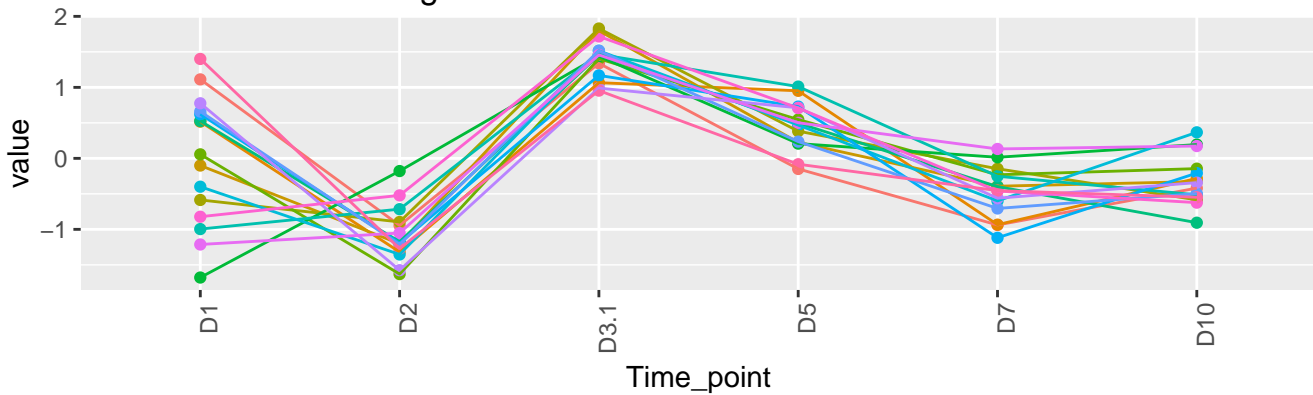
15 genes – WT-cluster-110-standardized



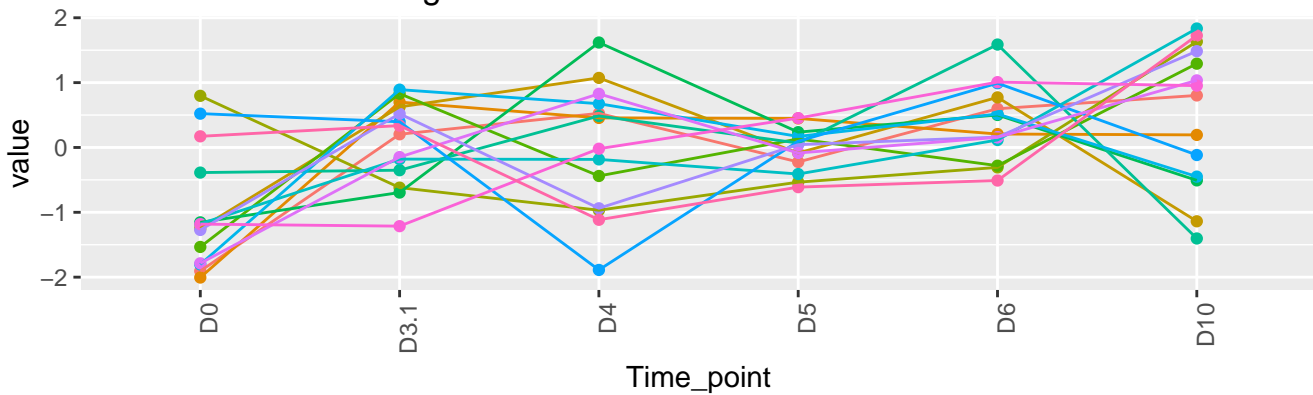
15 genes – KO-cluster-110-standardized



15 genes – WT-cluster-109-standardized

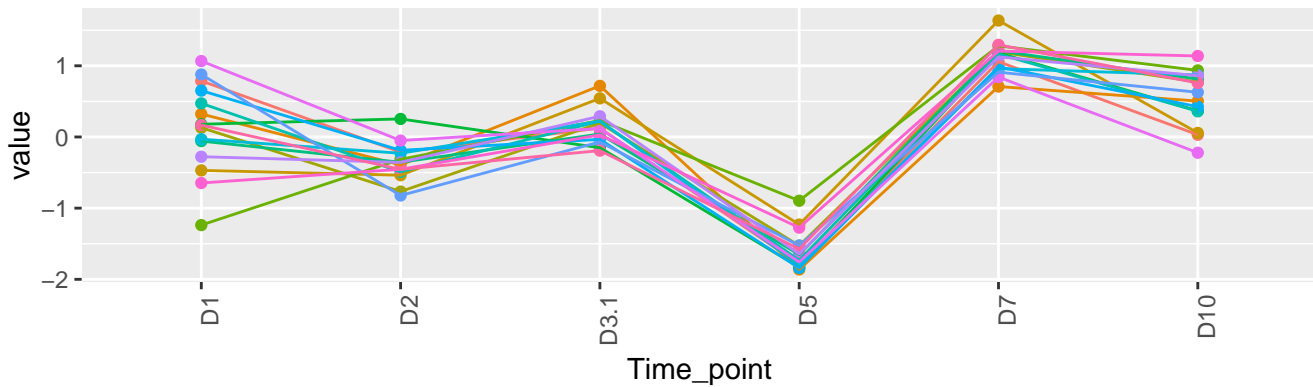


14 genes – KO-cluster-109-standardized

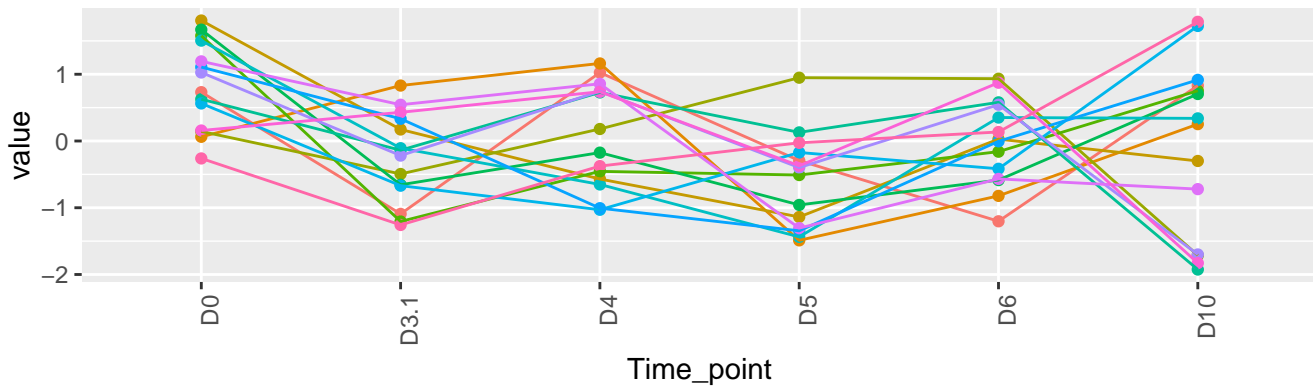




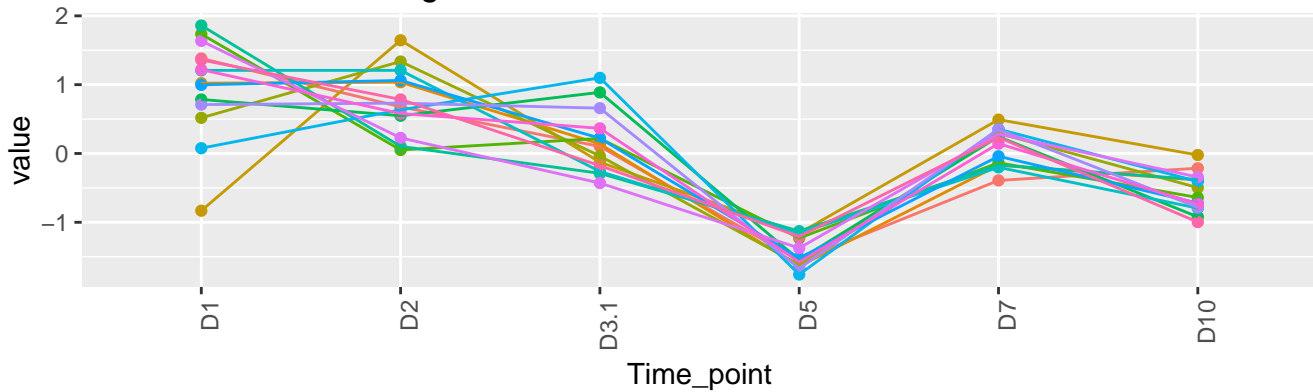
15 genes – WT-cluster-108-standardized



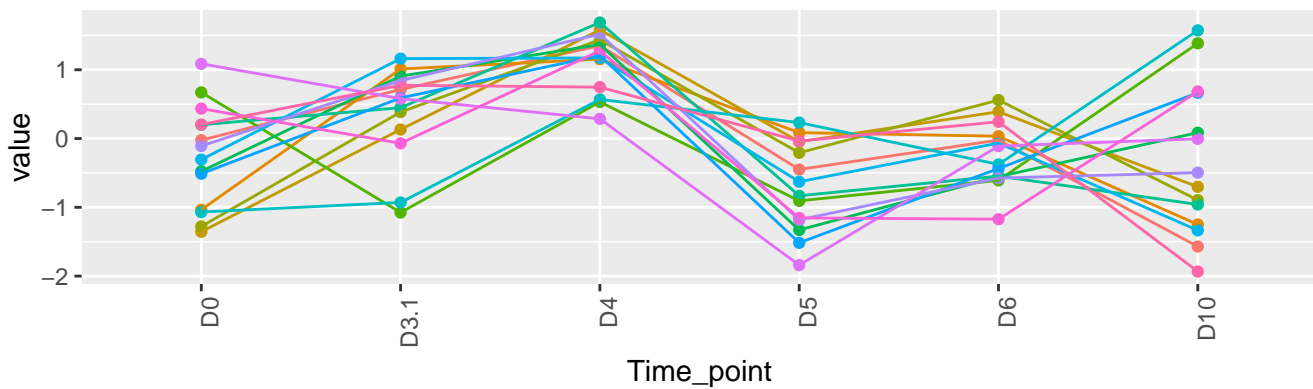
14 genes – KO-cluster-108-standardized



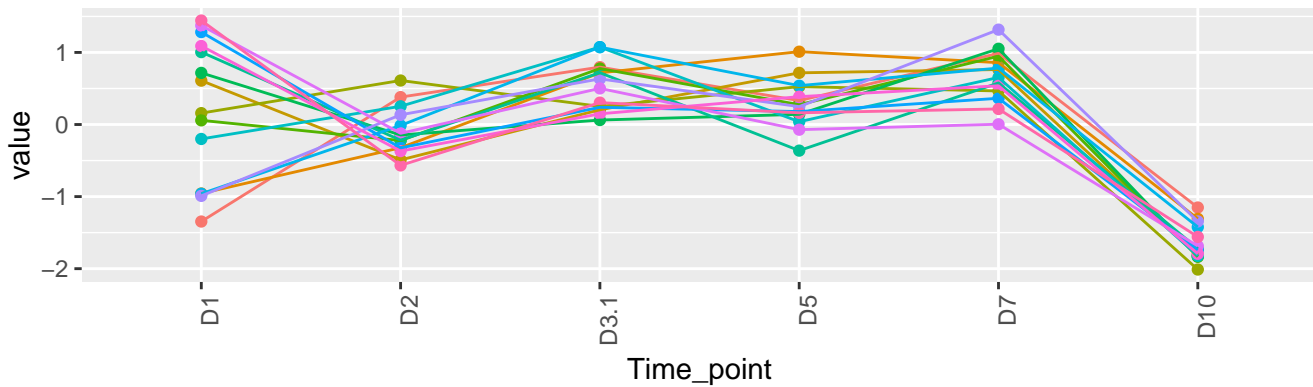
14 genes – WT-cluster-107-standardized



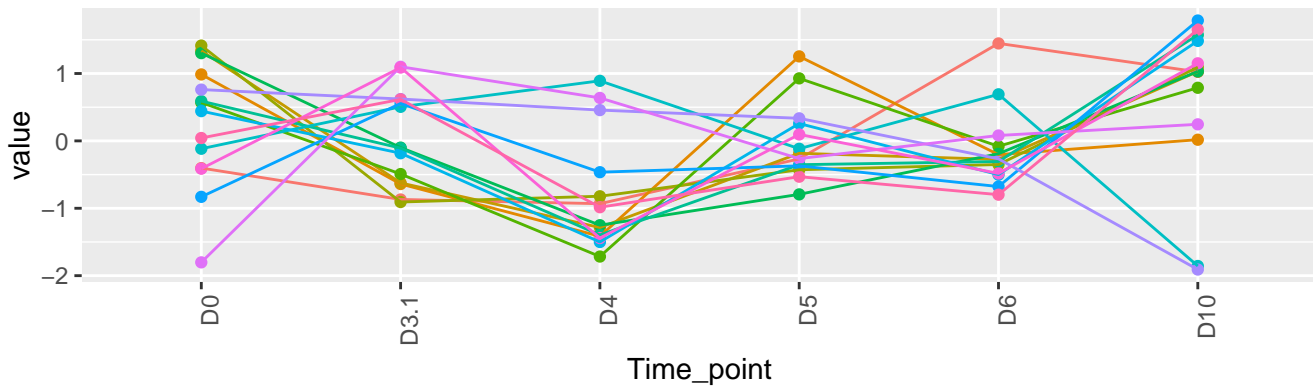
14 genes – KO-cluster-107-standardized



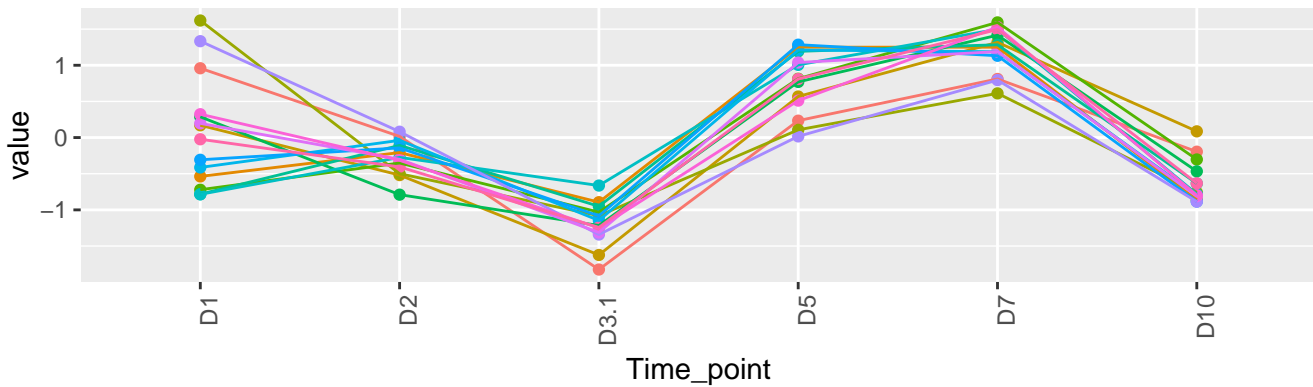
14 genes – WT-cluster-106-standardized



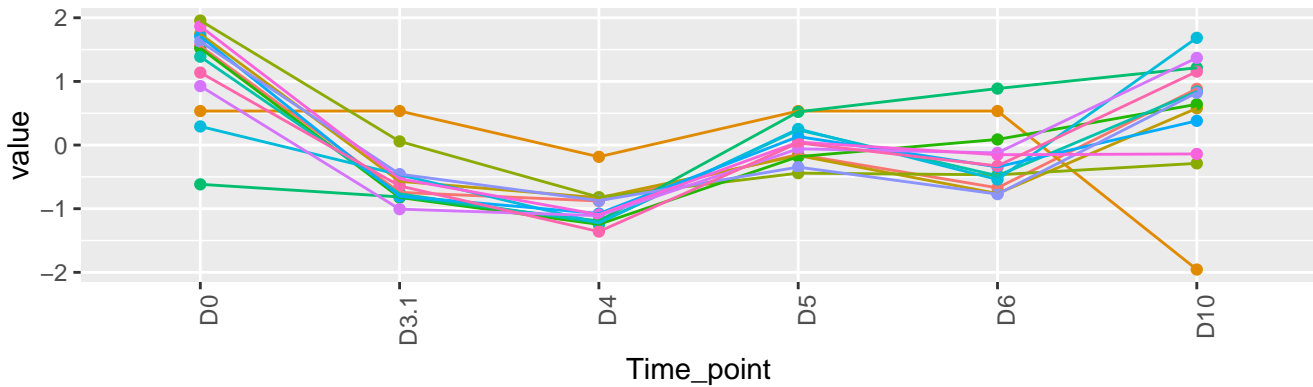
14 genes – KO-cluster-106-standardized



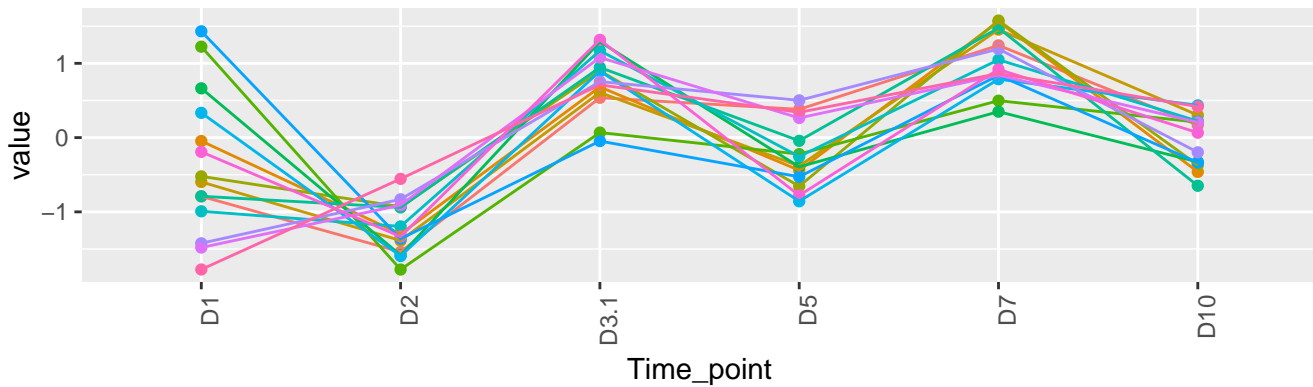
14 genes – WT-cluster-105-standardized



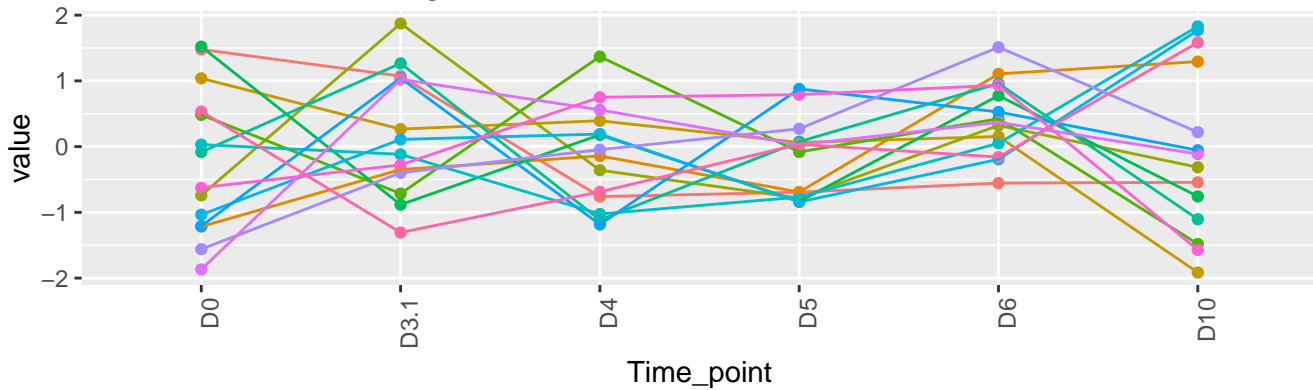
13 genes – KO-cluster-105-standardized



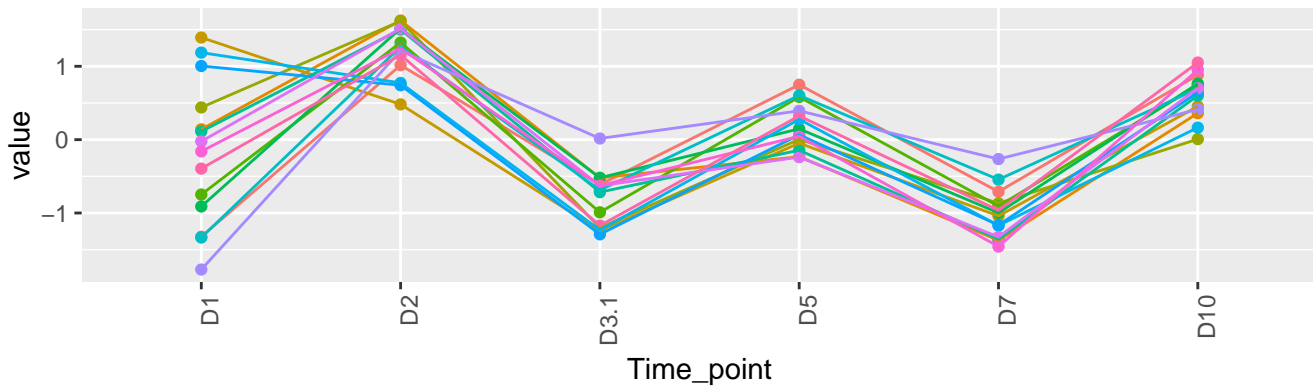
14 genes – WT-cluster-104-standardized



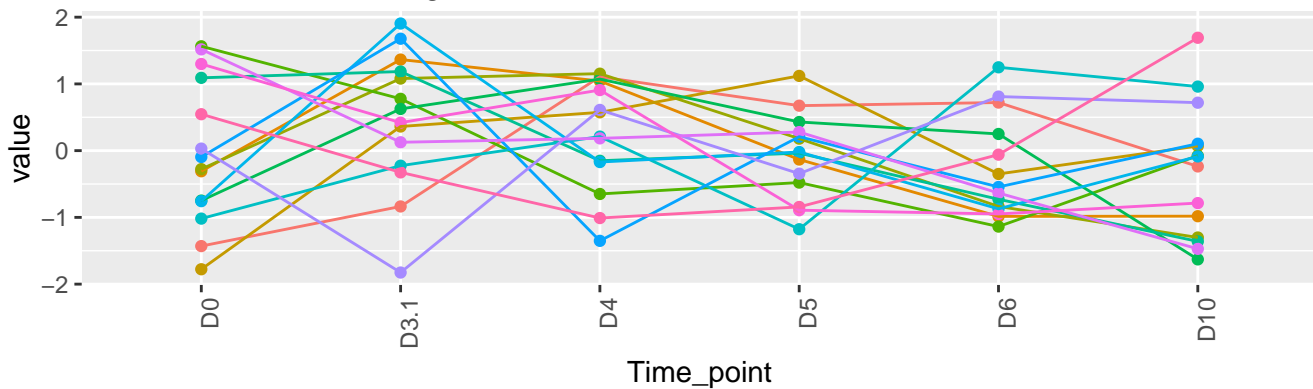
14 genes – KO-cluster-104-standardized



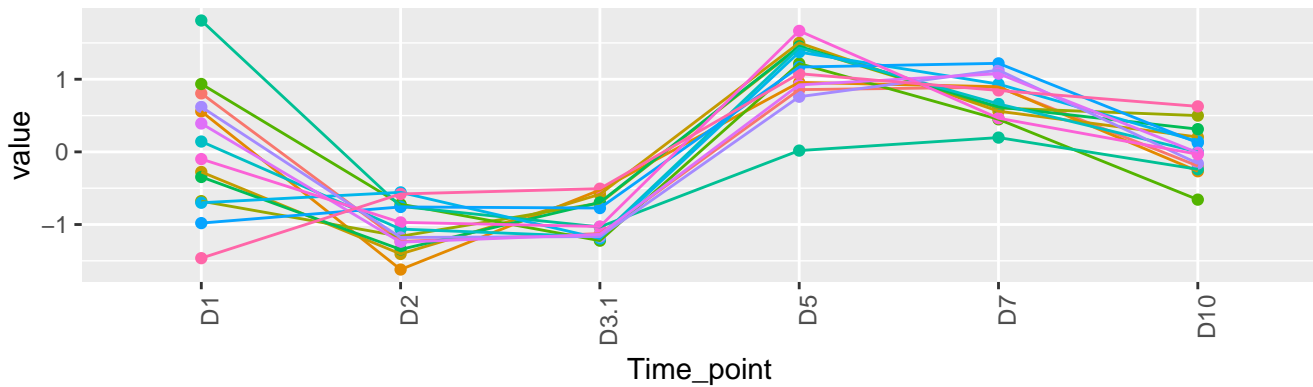
14 genes – WT-cluster-103-standardized



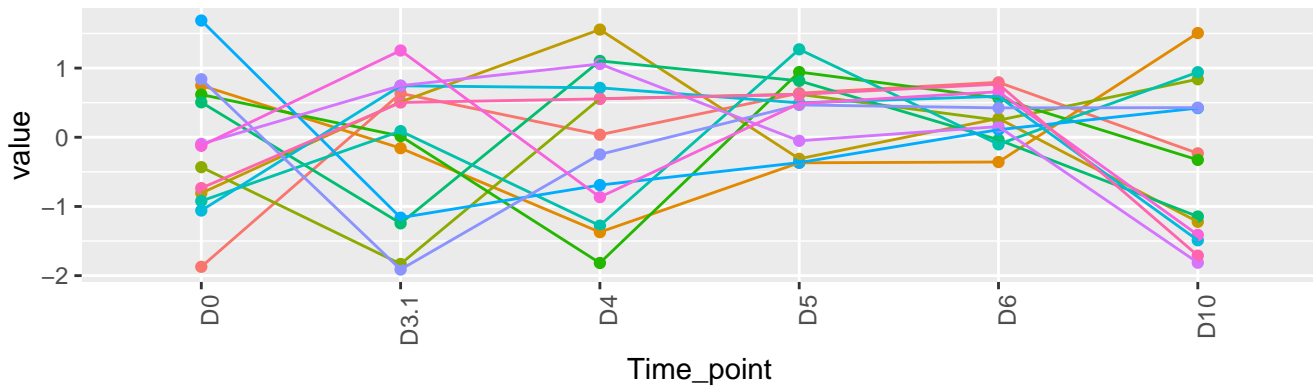
14 genes – KO-cluster-103-standardized



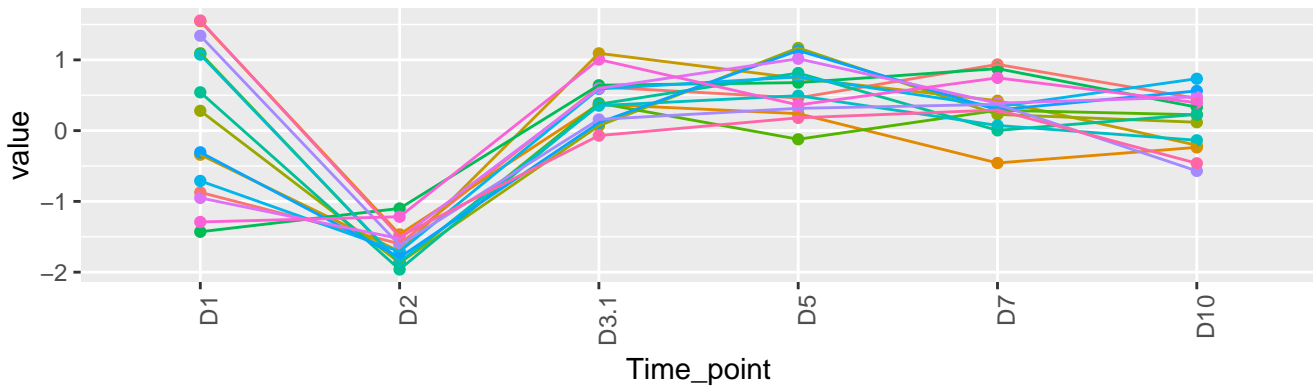
14 genes – WT-cluster-102-standardized



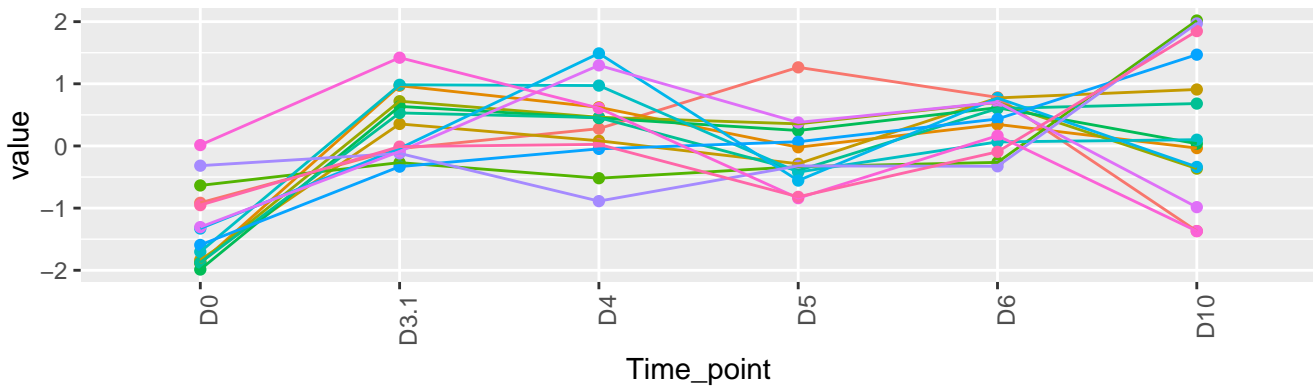
13 genes – KO-cluster-102-standardized



14 genes – WT-cluster-101-standardized

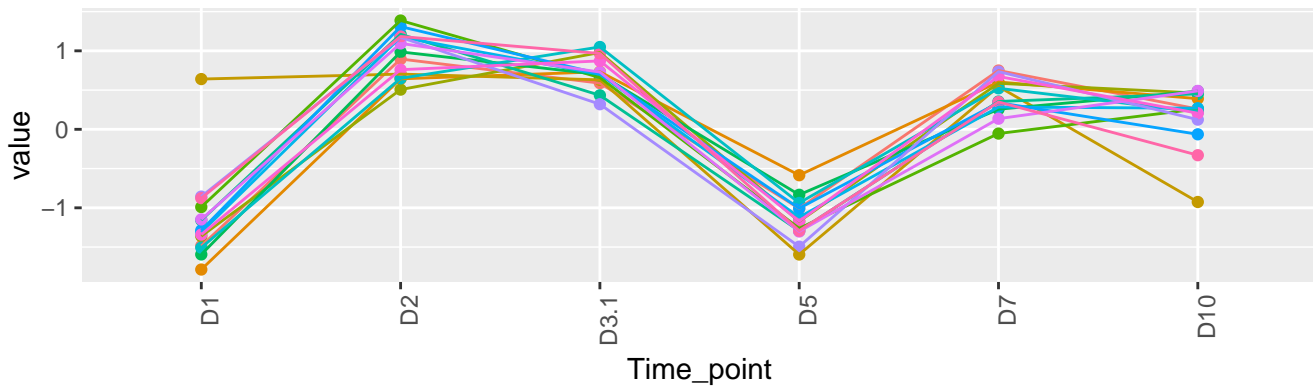


14 genes – KO-cluster-101-standardized

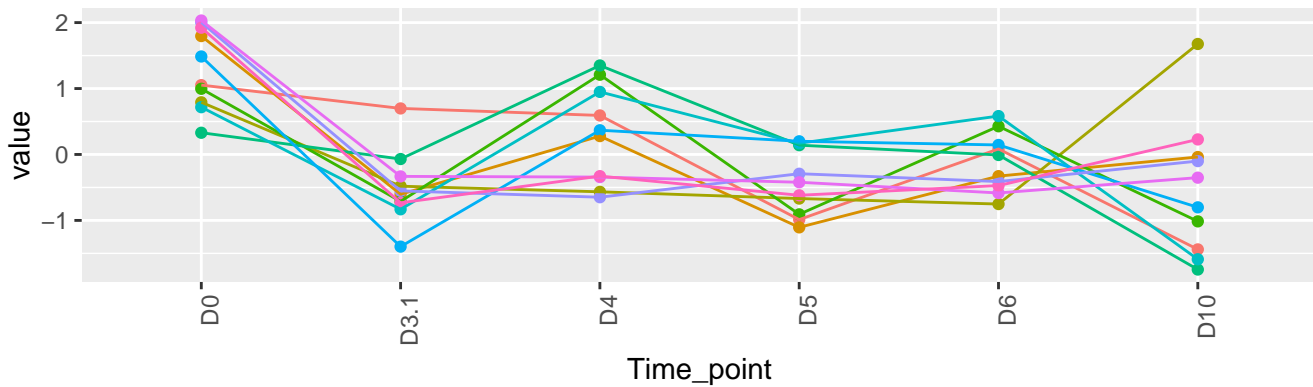




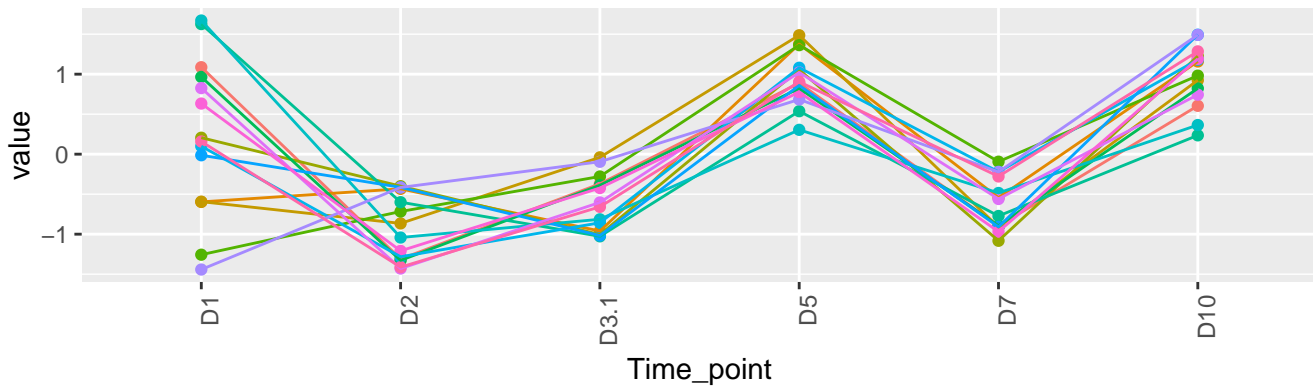
14 genes – WT-cluster-100-standardized



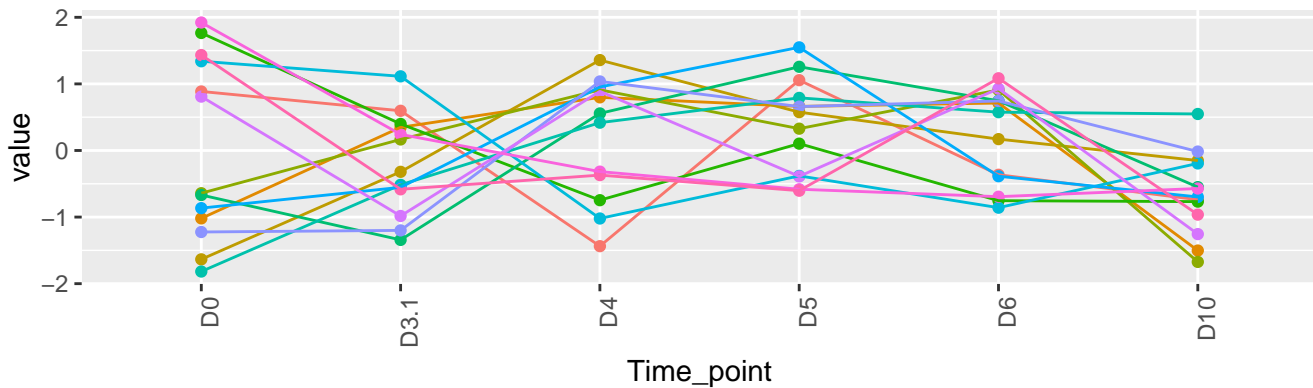
10 genes – KO-cluster-100-standardized



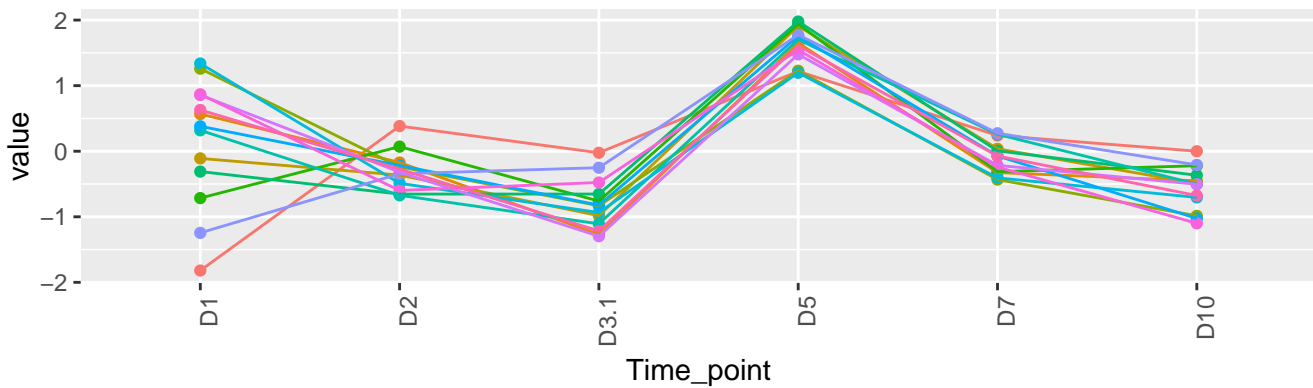
14 genes – WT-cluster-99-standardized



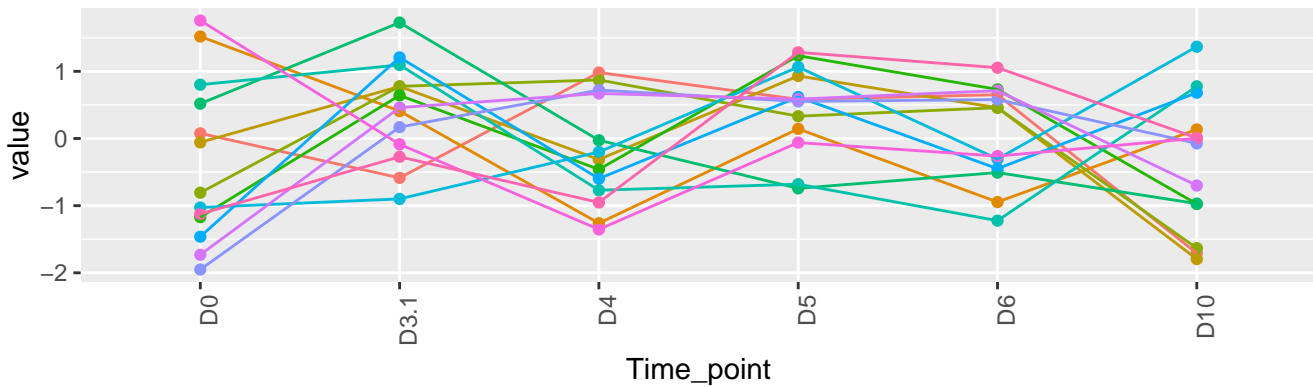
13 genes – KO-cluster-99-standardized



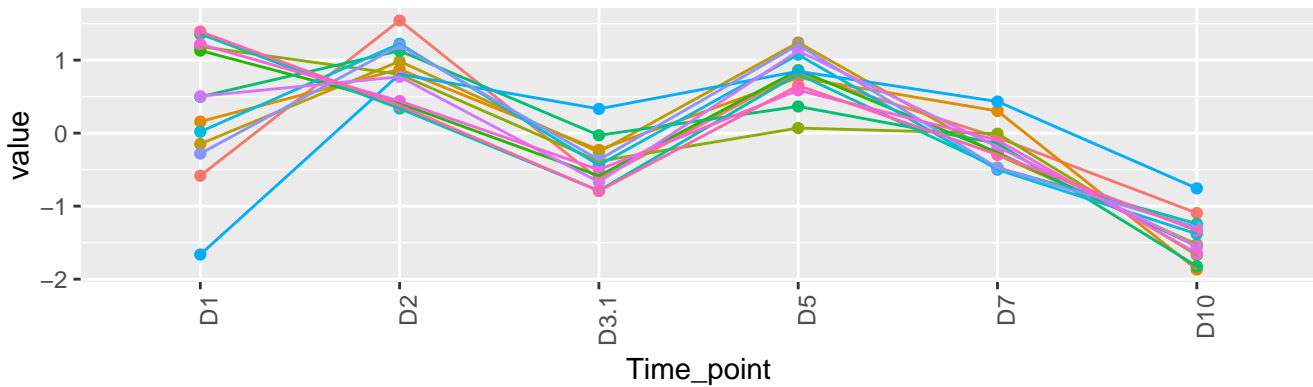
13 genes – WT-cluster-98-standardized



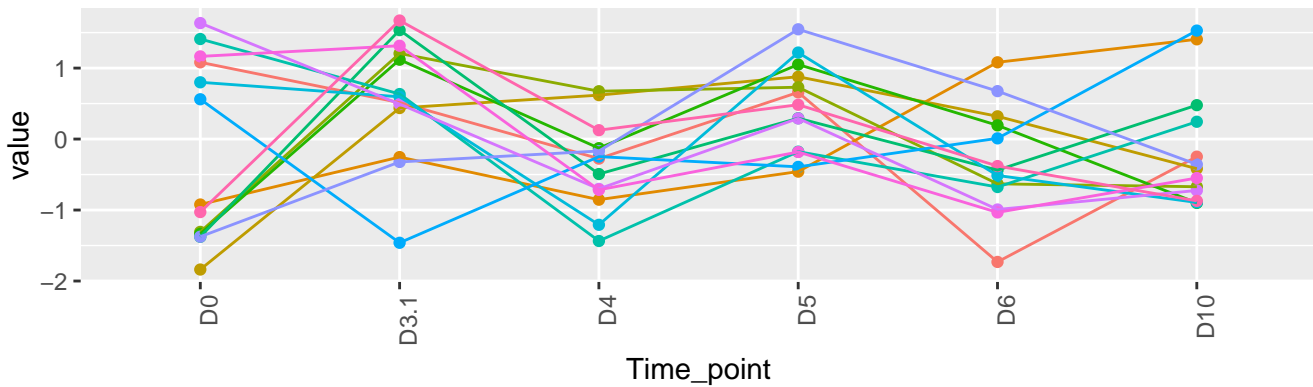
13 genes – KO-cluster-98-standardized



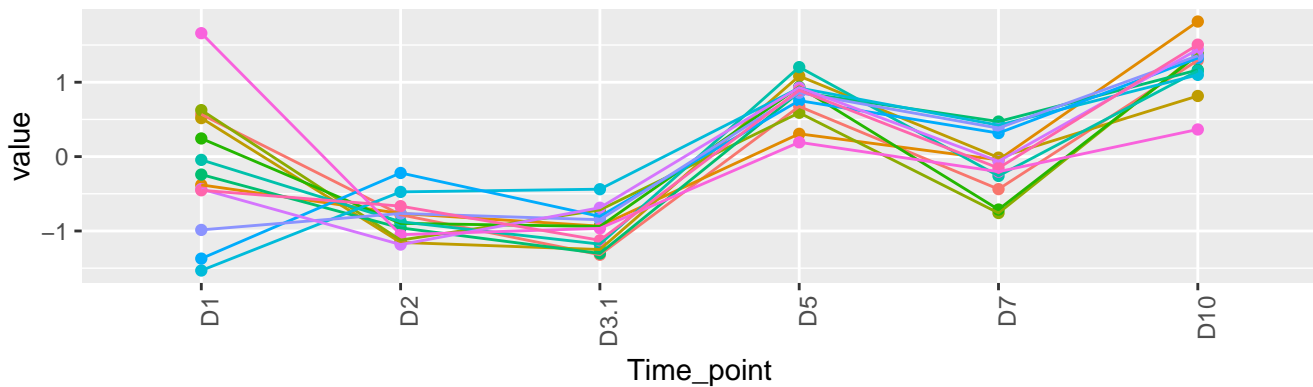
13 genes – WT-cluster-97-standardized



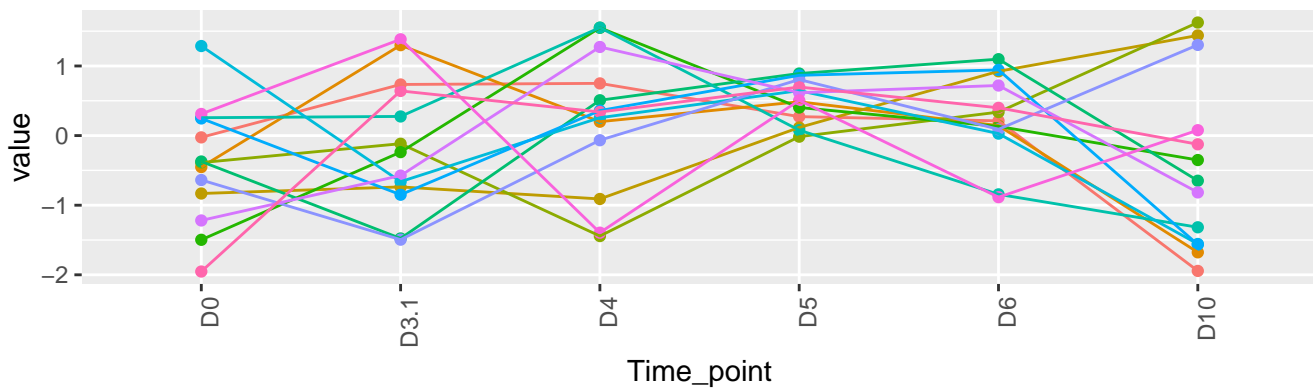
13 genes – KO-cluster-97-standardized



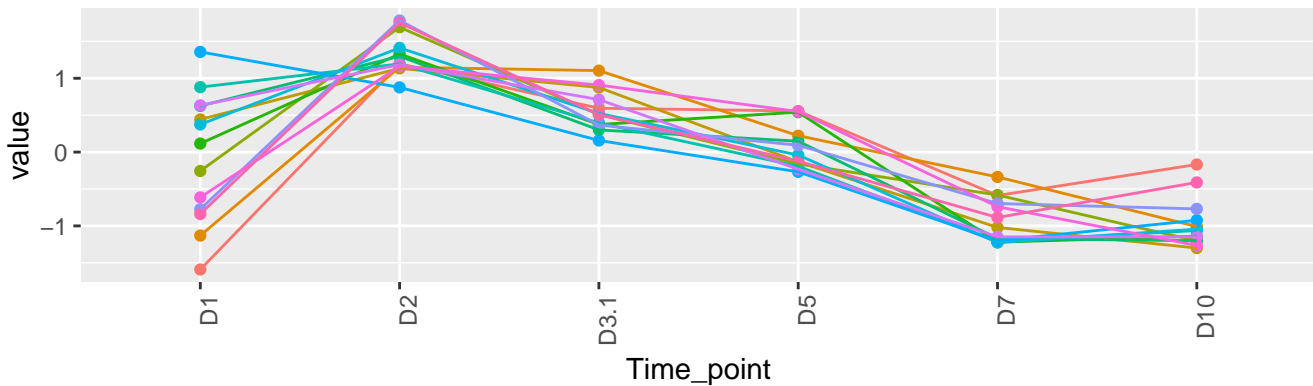
13 genes – WT-cluster-96-standardized



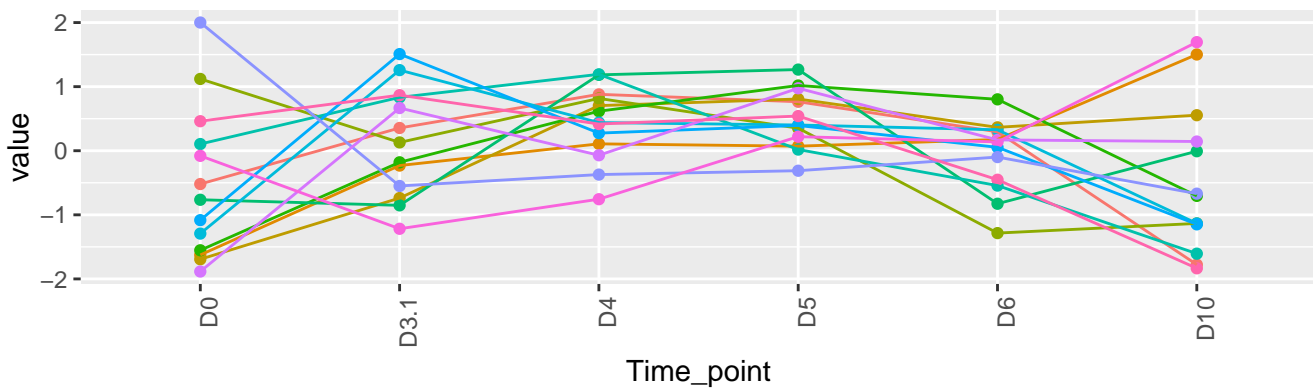
13 genes – KO-cluster-96-standardized



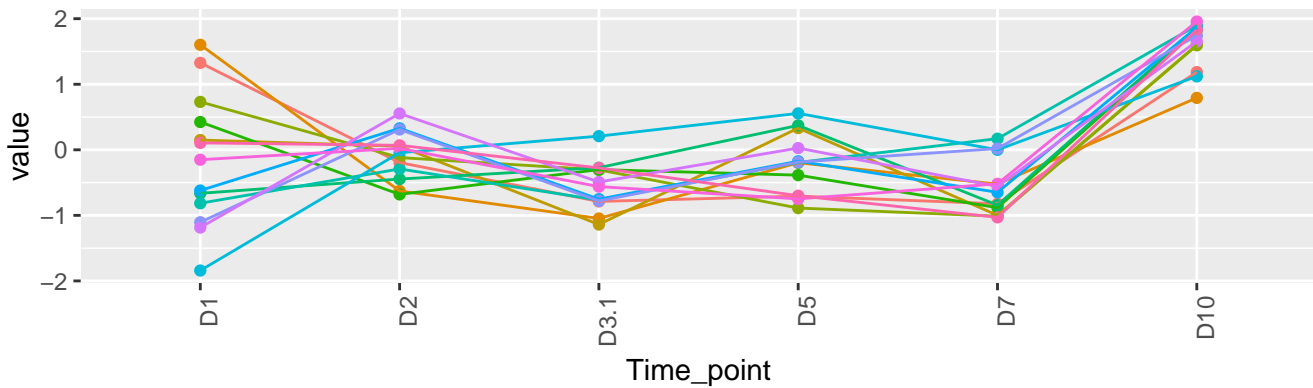
13 genes – WT-cluster-95-standardized



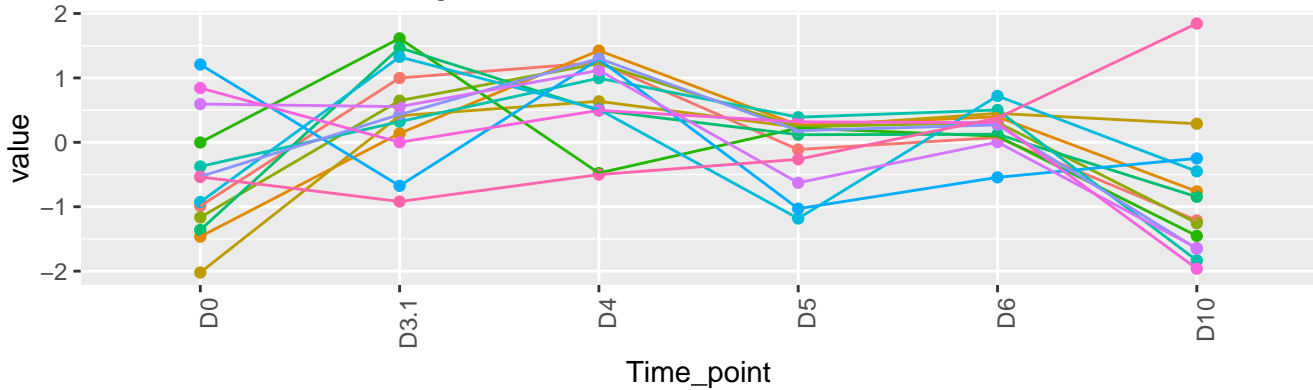
13 genes – KO-cluster-95-standardized



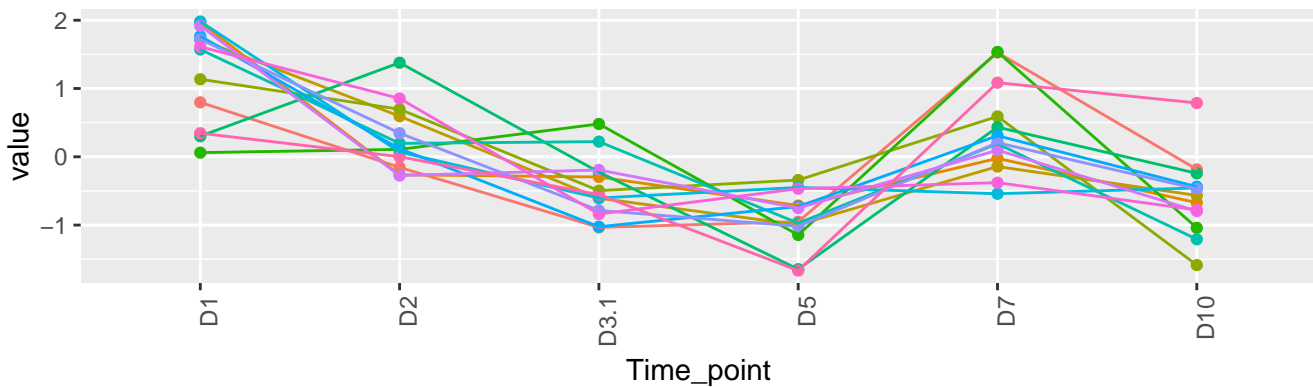
13 genes – WT-cluster-94-standardized



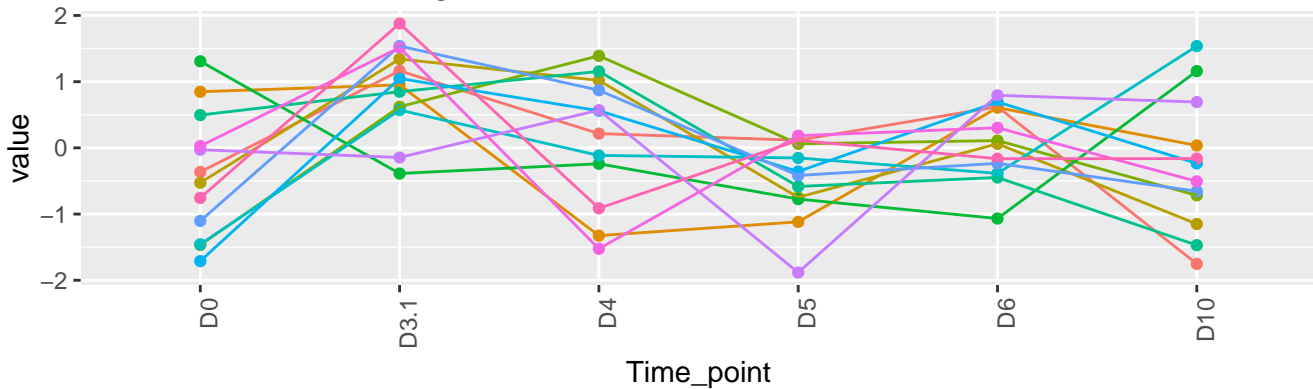
13 genes – KO-cluster-94-standardized



13 genes – WT-cluster-93-standardized

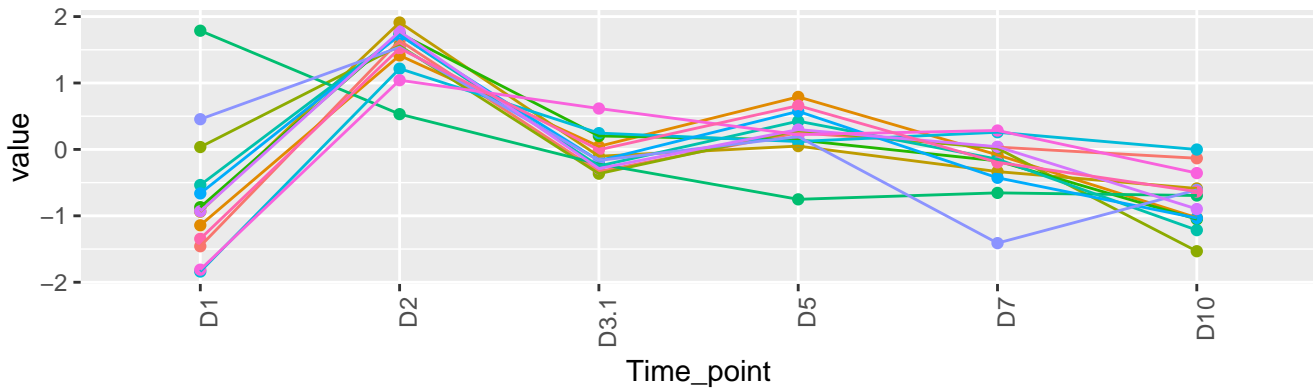


12 genes – KO-cluster-93-standardized

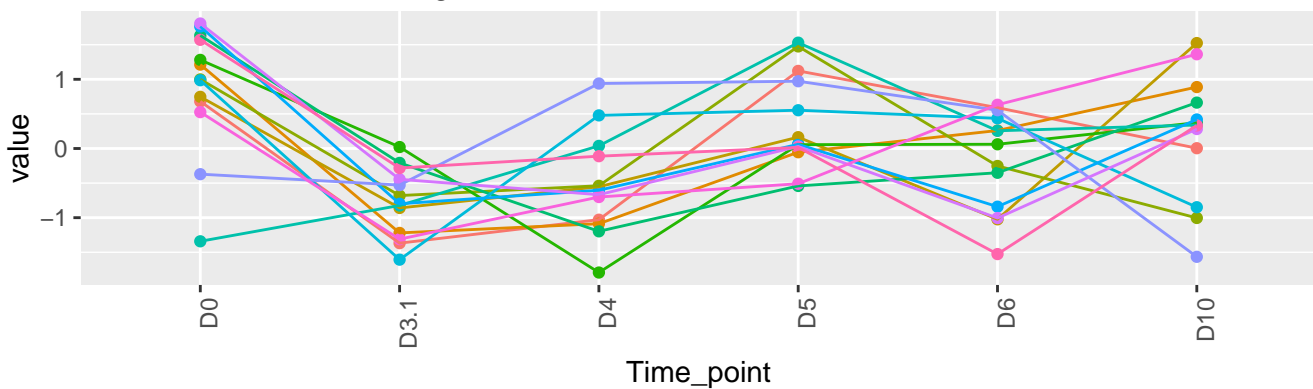




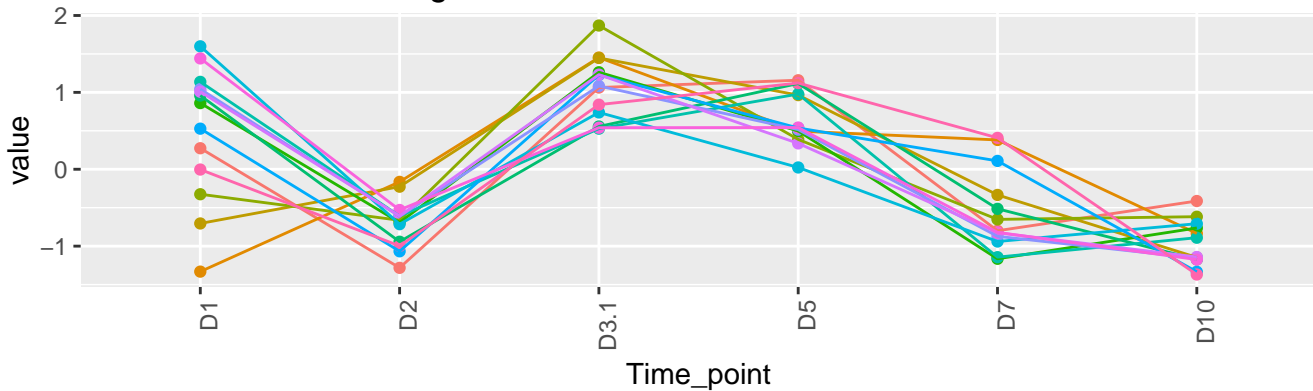
13 genes – WT-cluster-92-standardized



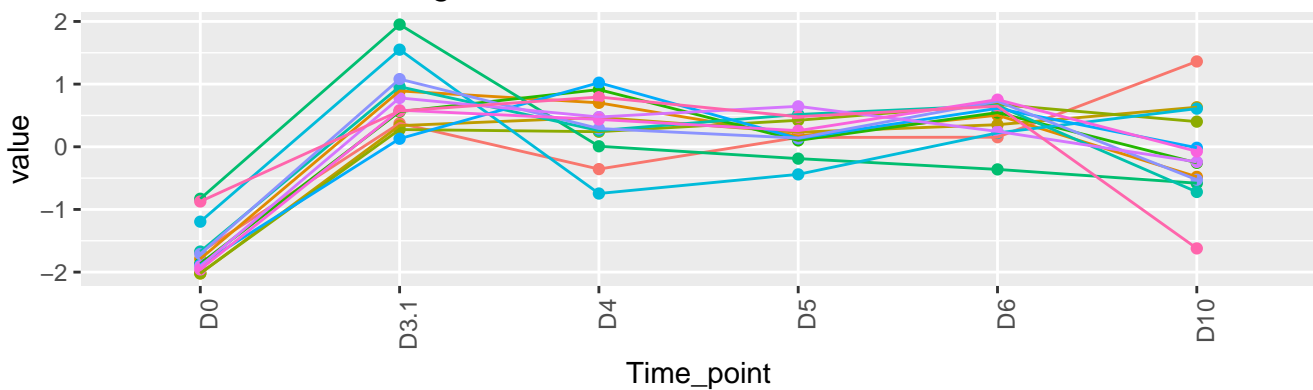
13 genes – KO-cluster-92-standardized



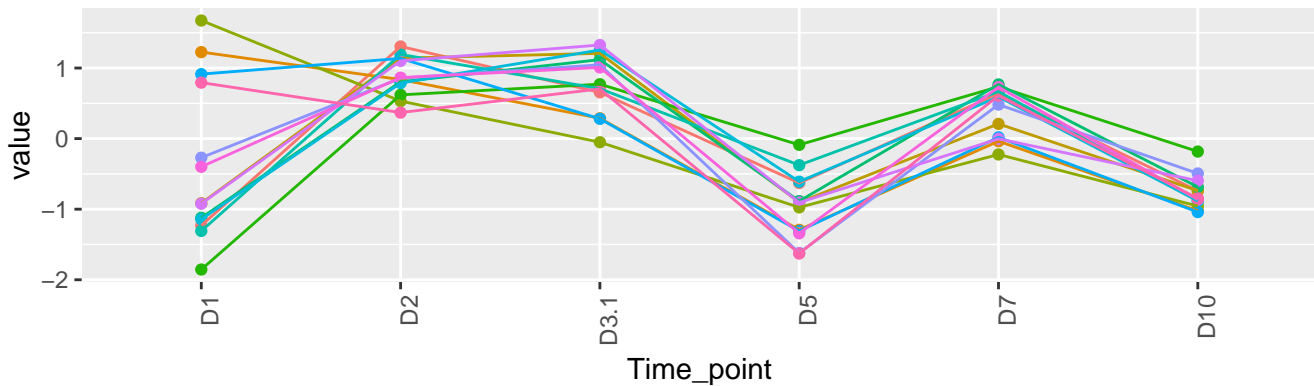
13 genes – WT-cluster-91-standardized



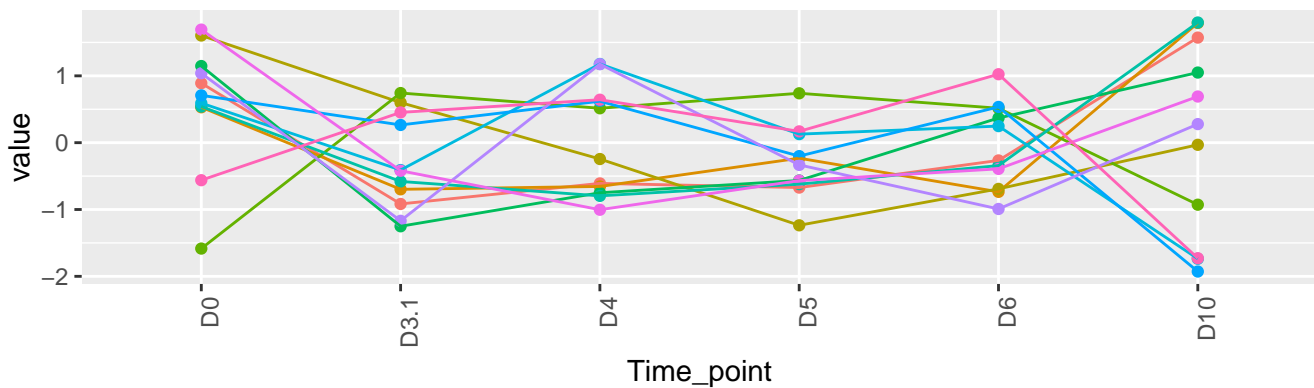
13 genes – KO-cluster-91-standardized



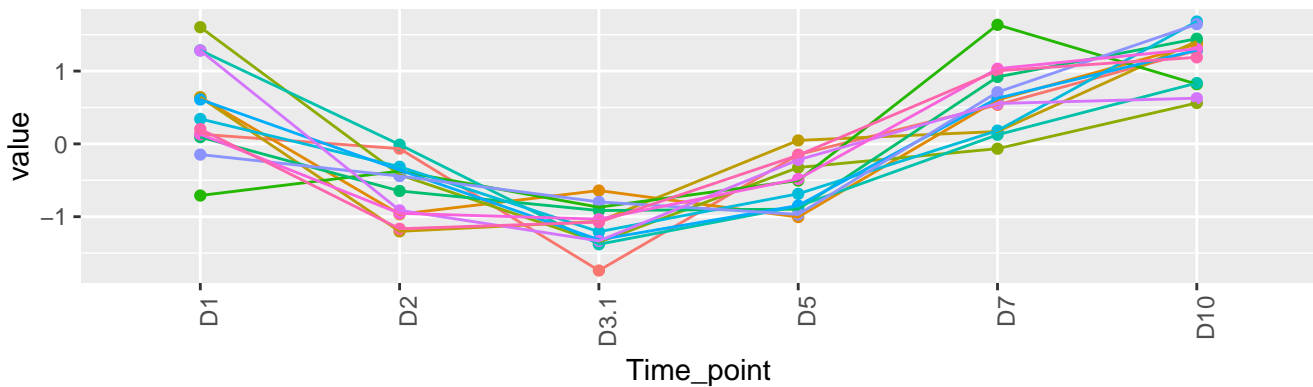
13 genes – WT-cluster-90-standardized



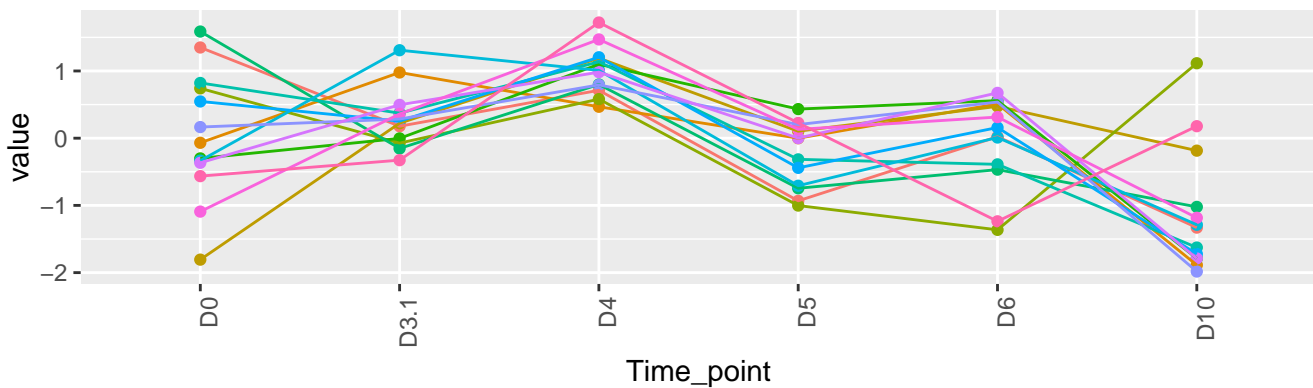
11 genes – KO-cluster-90-standardized



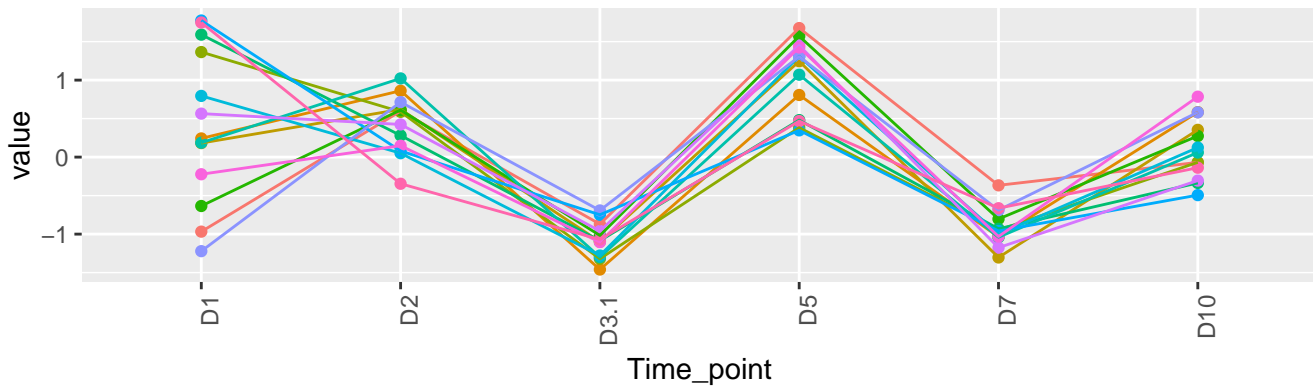
13 genes – WT-cluster-89-standardized



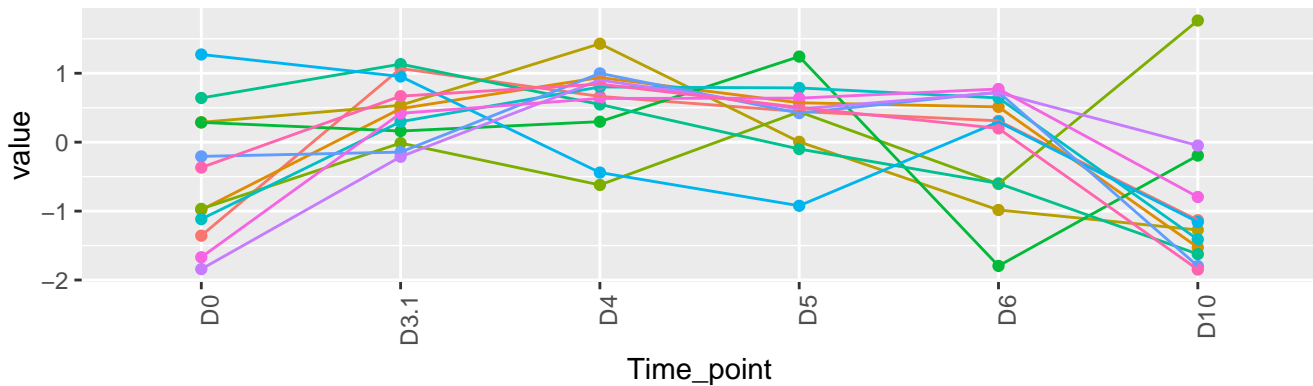
13 genes – KO-cluster-89-standardized



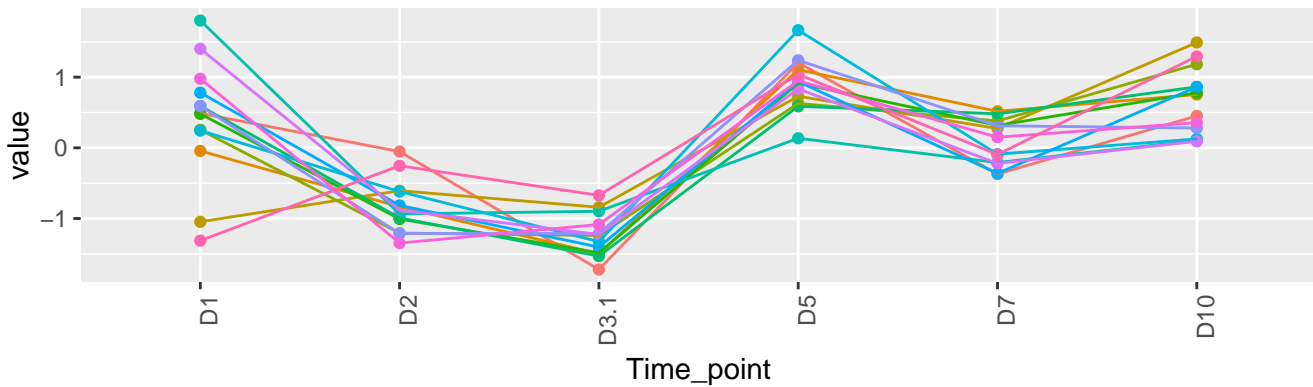
13 genes – WT-cluster-88-standardized



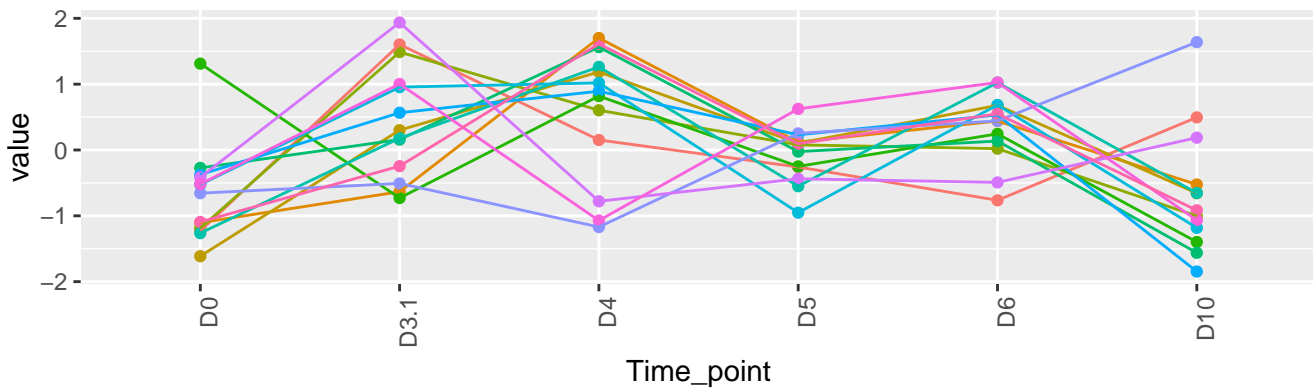
12 genes – KO-cluster-88-standardized



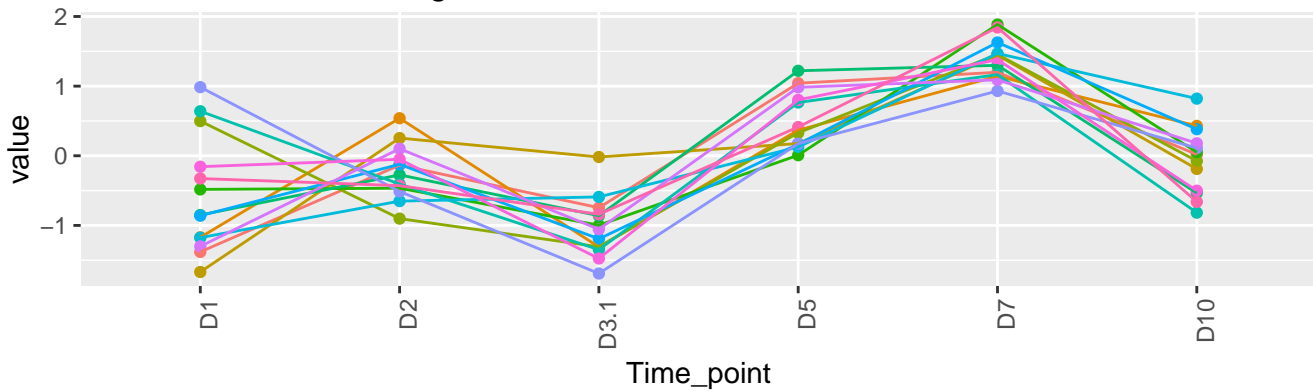
13 genes – WT-cluster-87-standardized



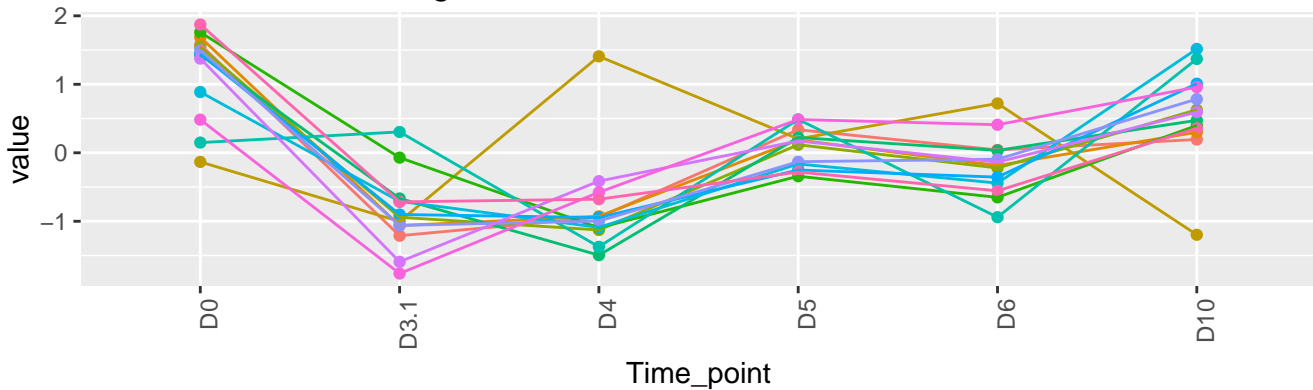
13 genes – KO-cluster-87-standardized



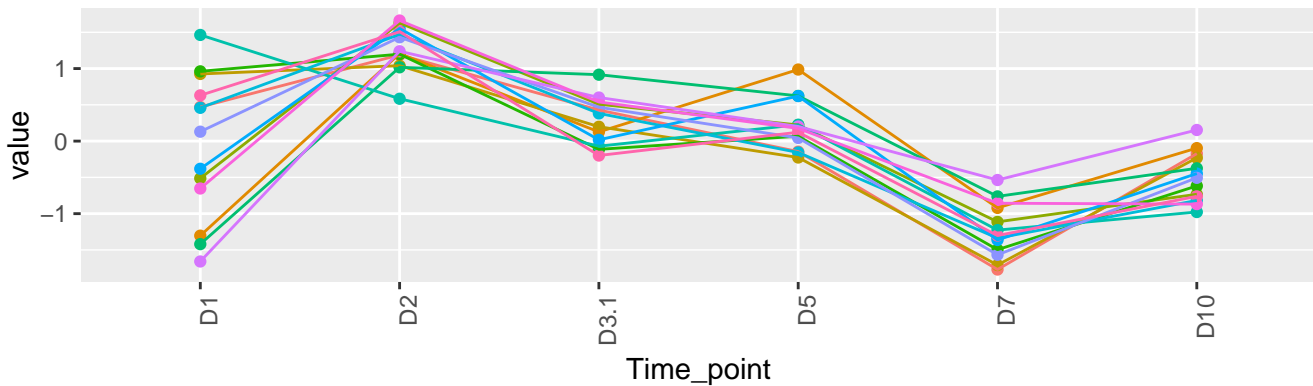
13 genes – WT-cluster-86-standardized



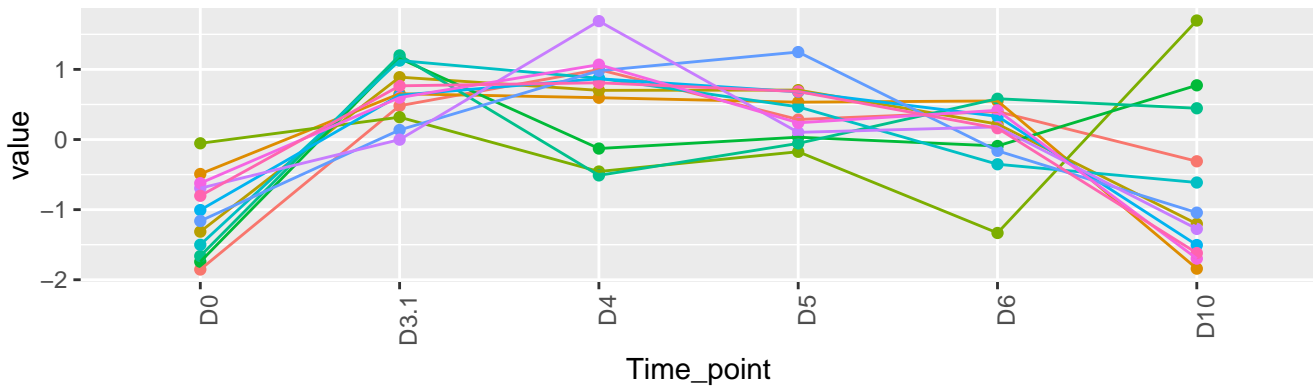
13 genes – KO-cluster-86-standardized



13 genes – WT-cluster-85-standardized

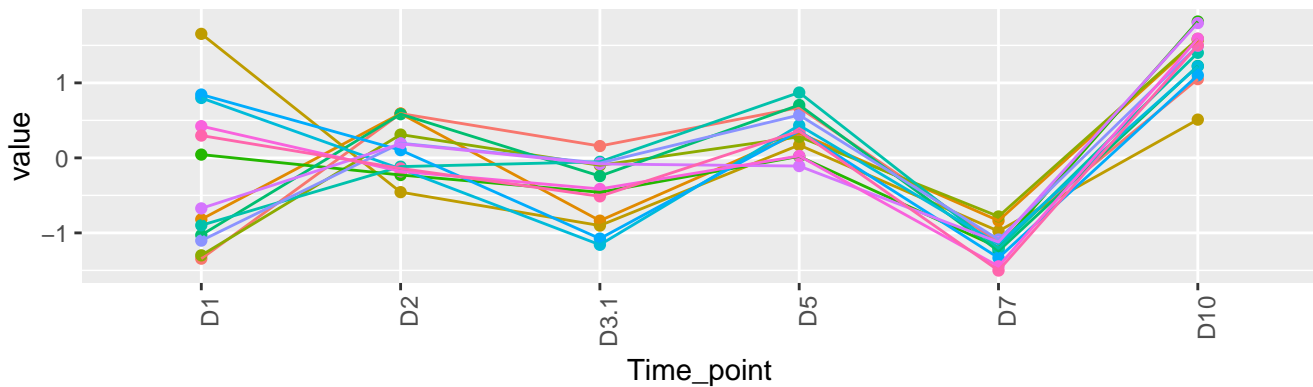


12 genes – KO-cluster-85-standardized

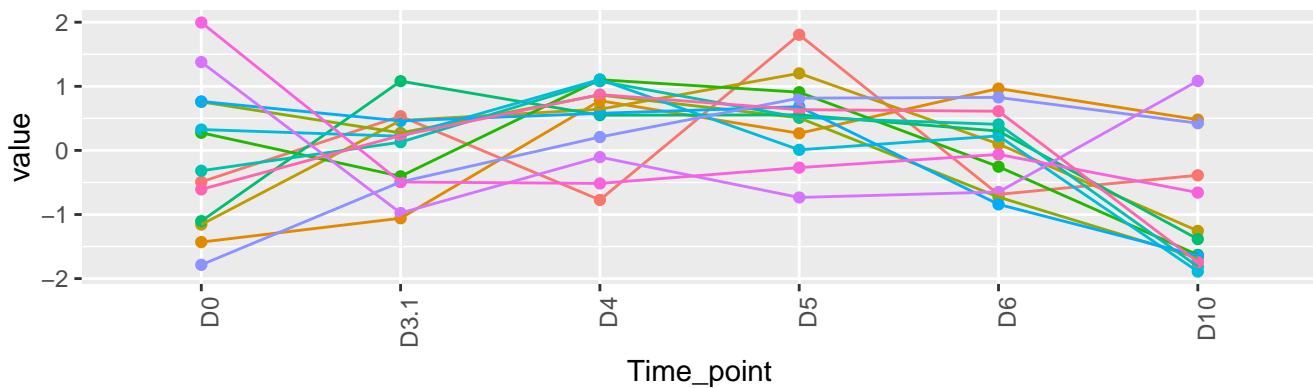




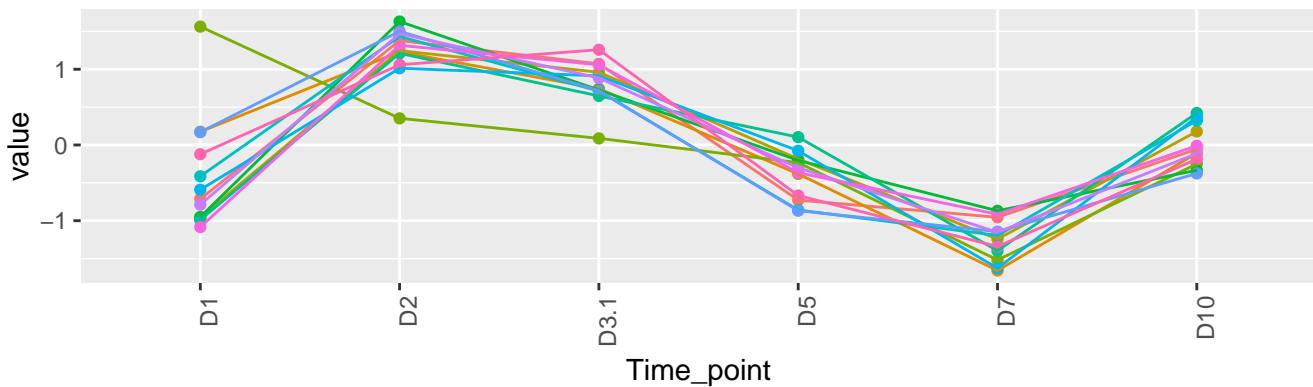
13 genes – WT-cluster-84-standardized



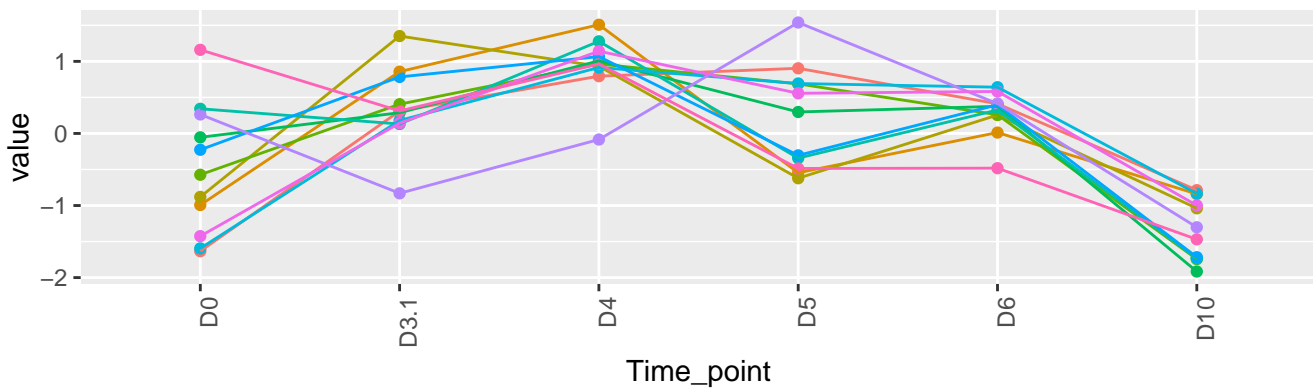
13 genes – KO-cluster-84-standardized



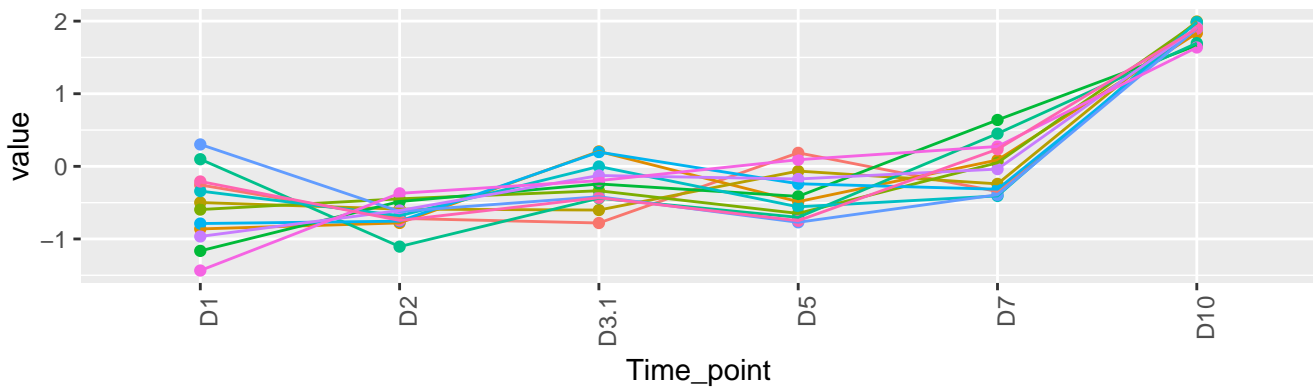
12 genes – WT-cluster-83-standardized



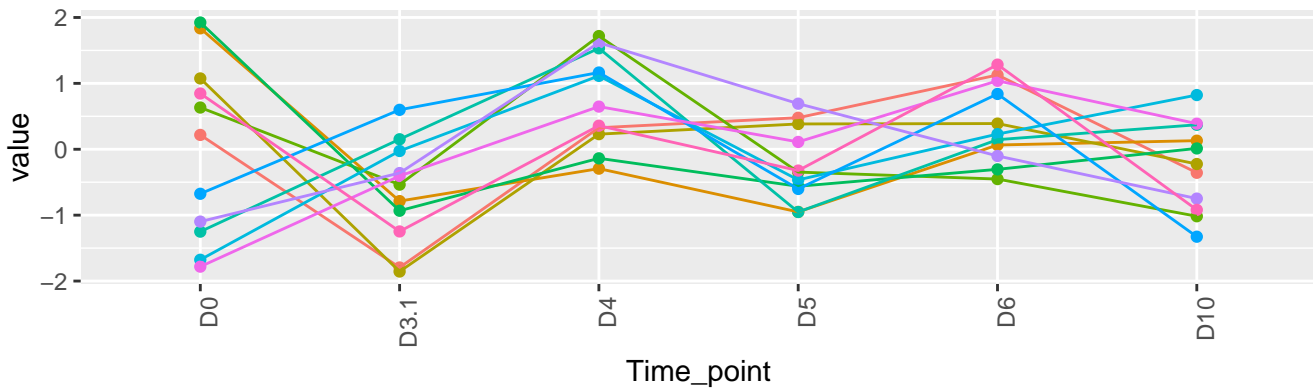
11 genes – KO-cluster-83-standardized



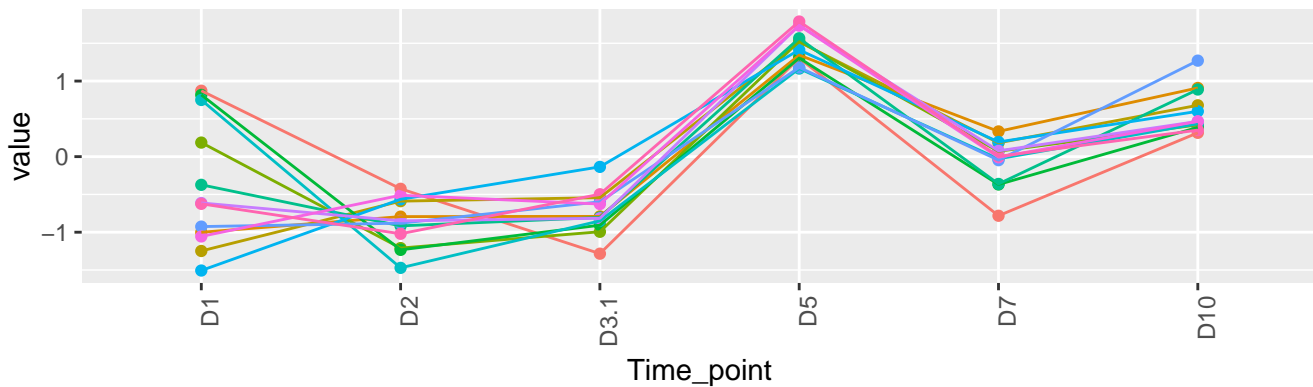
12 genes – WT-cluster-82-standardized



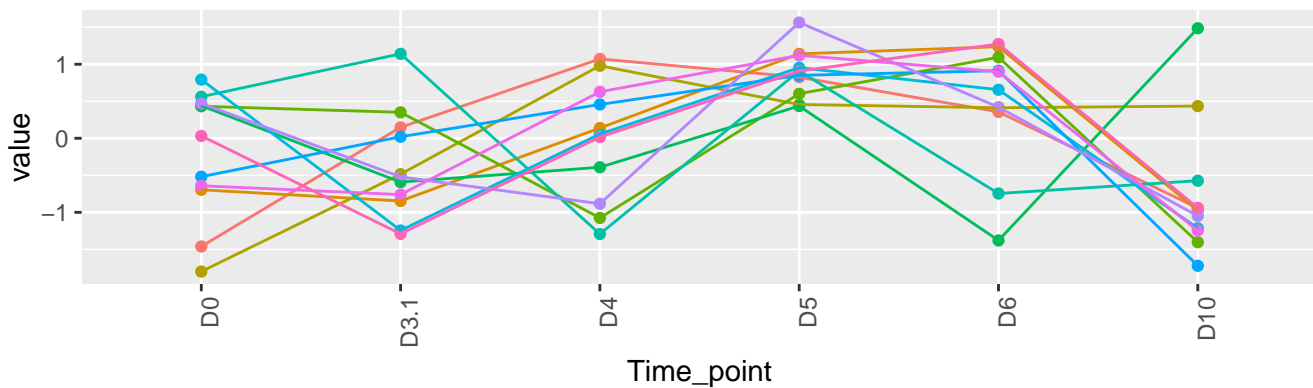
11 genes – KO-cluster-82-standardized



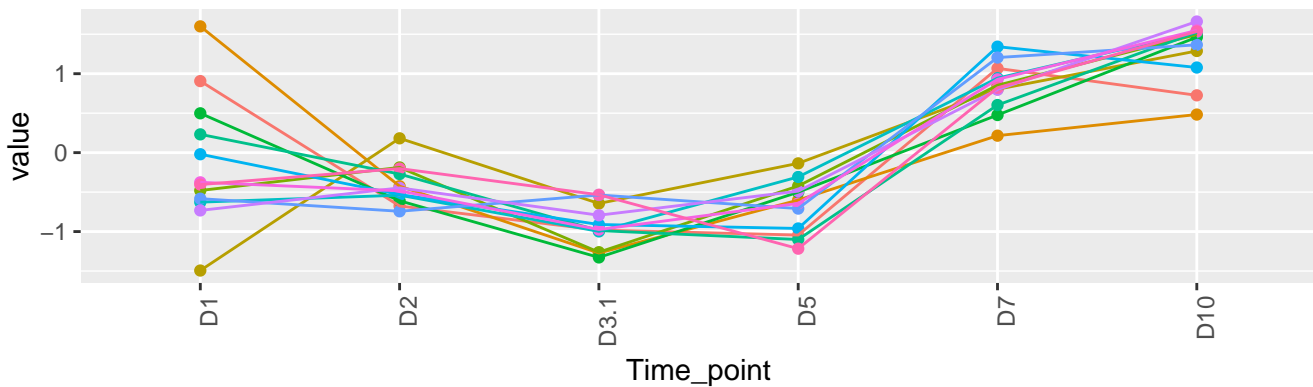
12 genes – WT-cluster-81-standardized



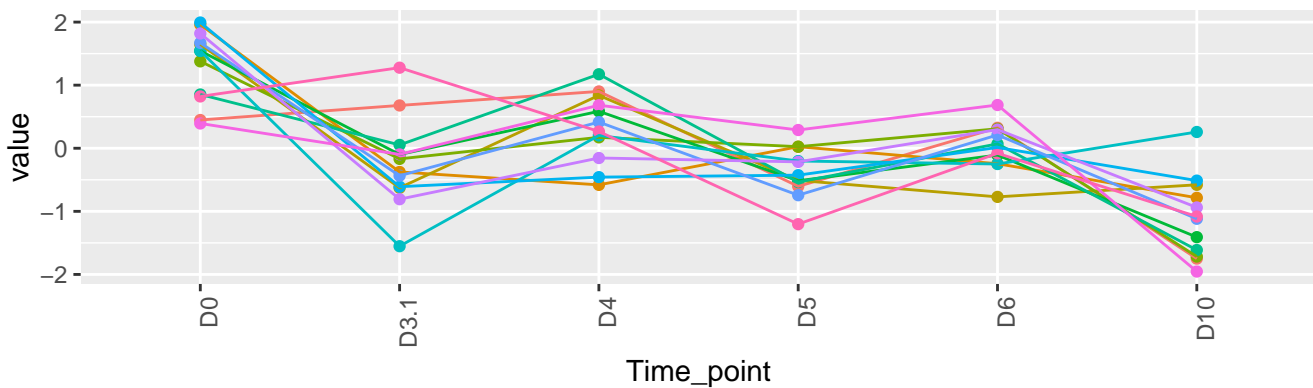
11 genes – KO-cluster-81-standardized



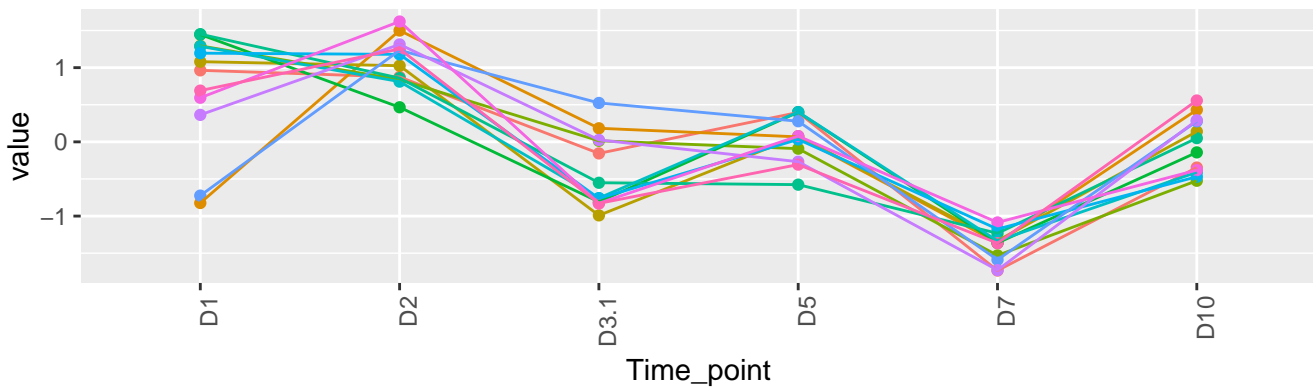
12 genes – WT-cluster-80-standardized



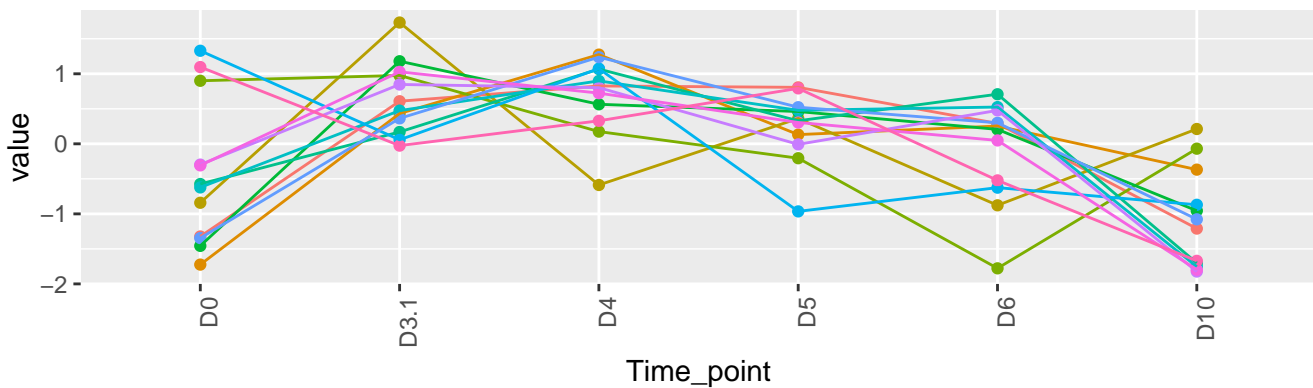
12 genes – KO-cluster-80-standardized



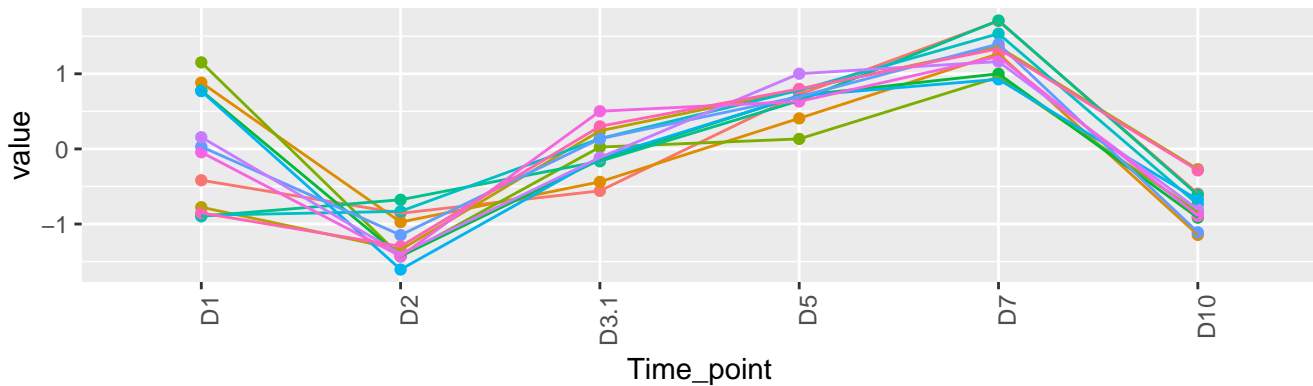
12 genes – WT-cluster-79-standardized



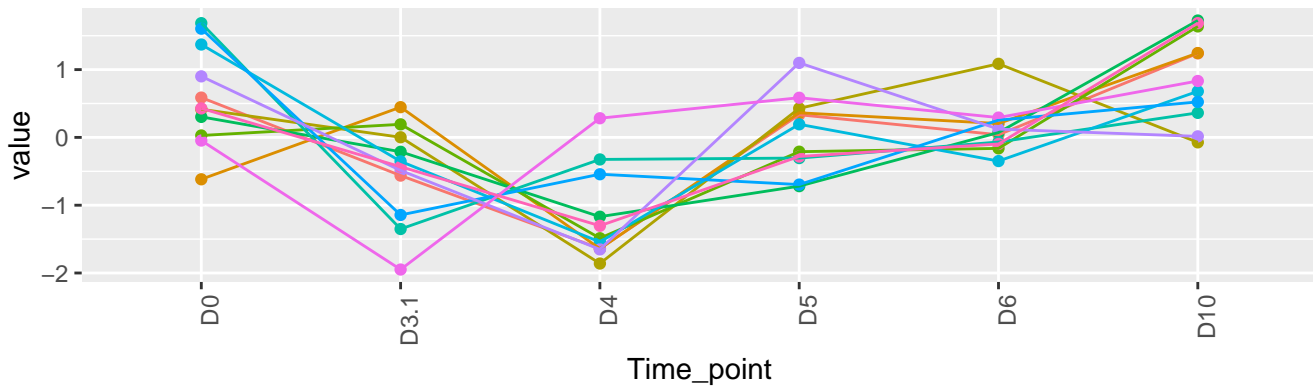
12 genes – KO-cluster-79-standardized



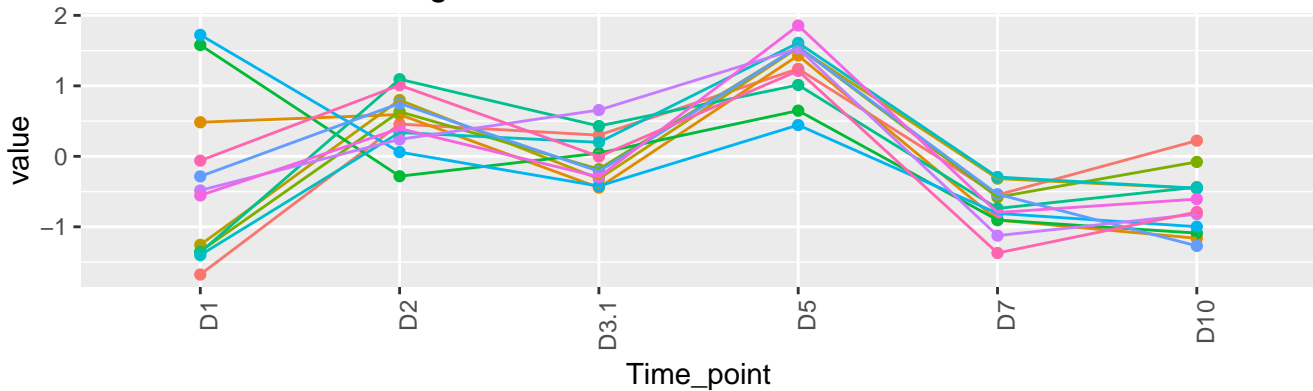
12 genes – WT-cluster-78-standardized



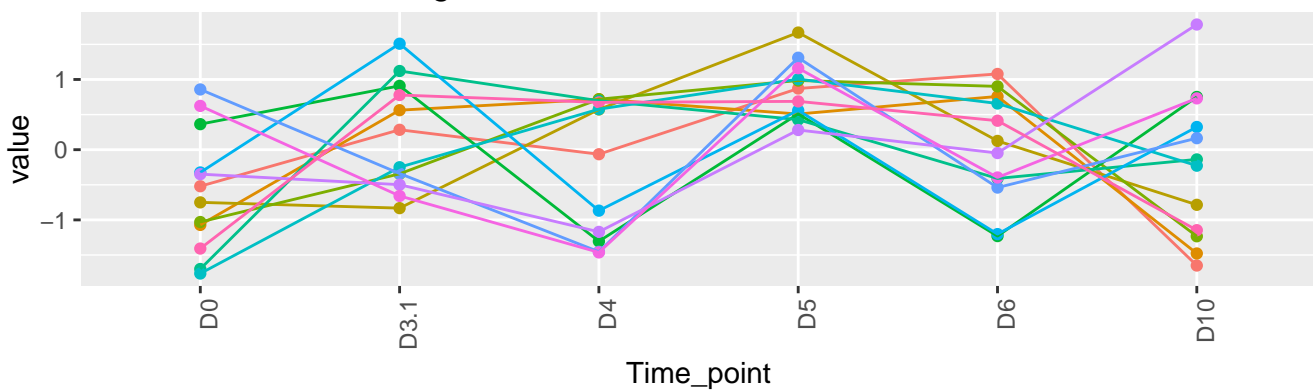
11 genes – KO-cluster-78-standardized



12 genes – WT-cluster-77-standardized

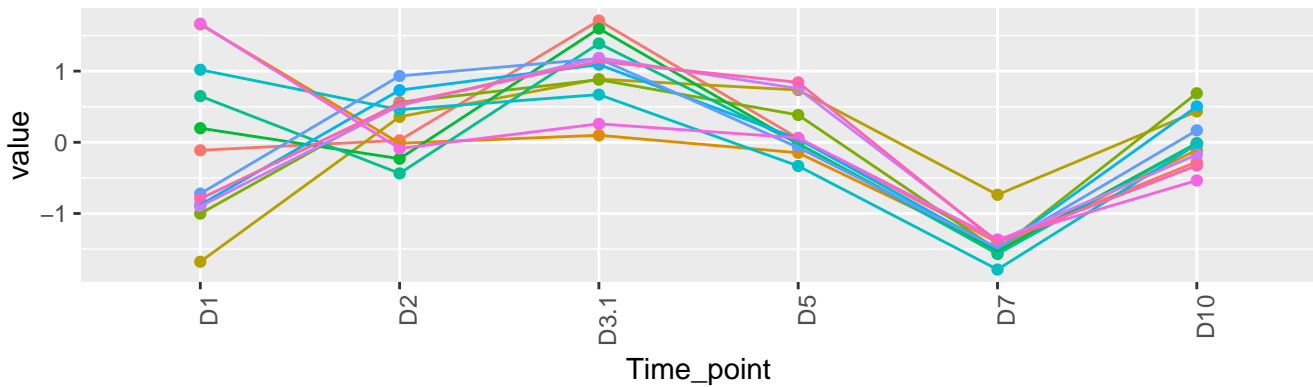


12 genes – KO-cluster-77-standardized

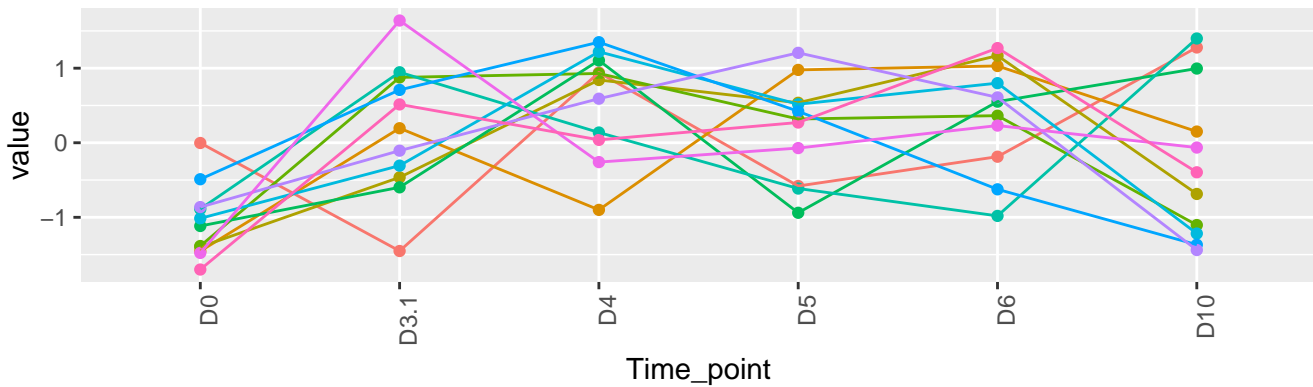




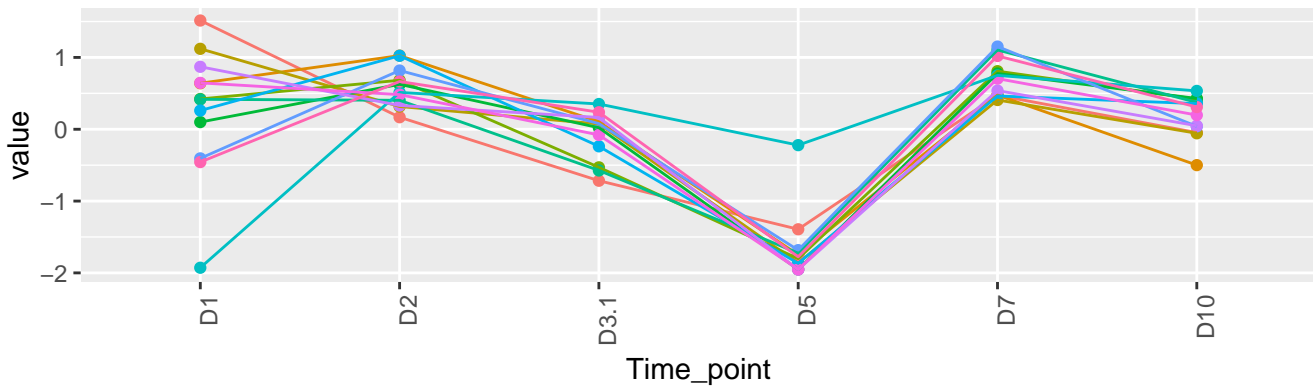
12 genes – WT-cluster-76-standardized



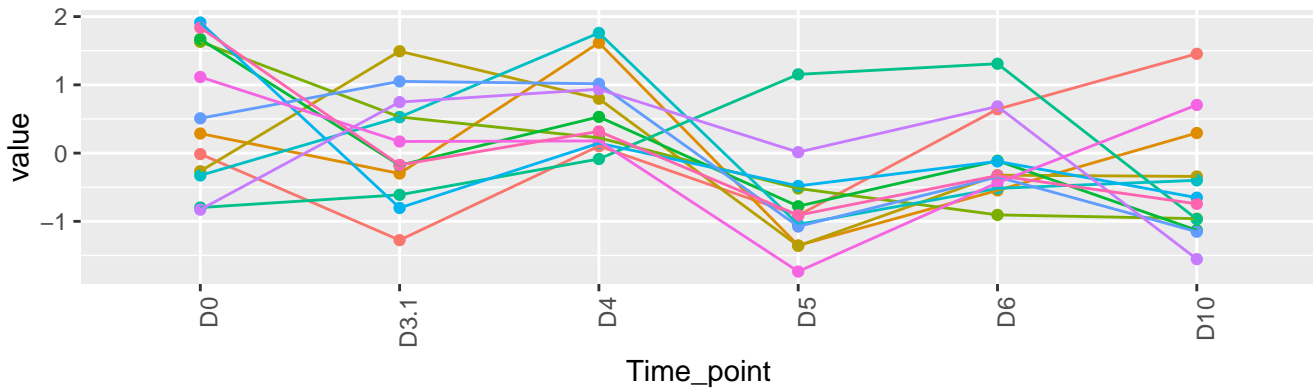
11 genes – KO-cluster-76-standardized



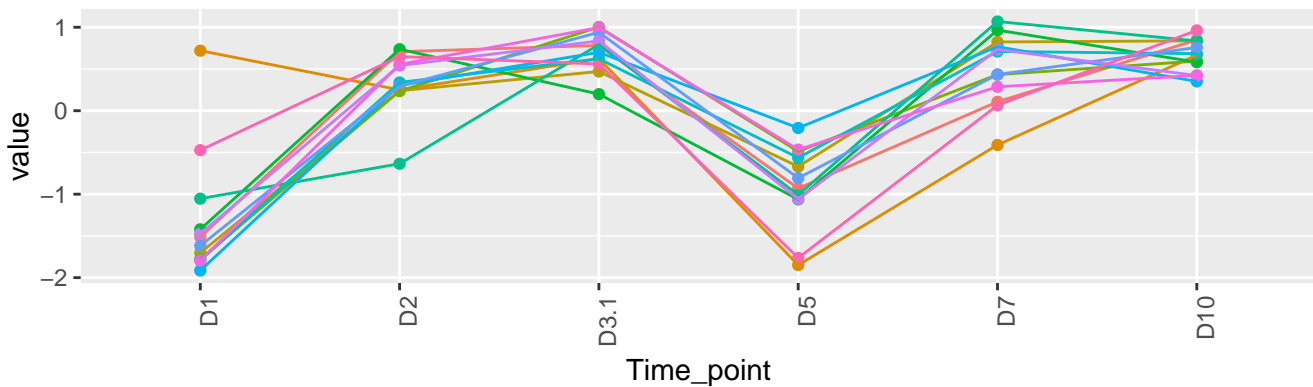
12 genes – WT-cluster-75-standardized



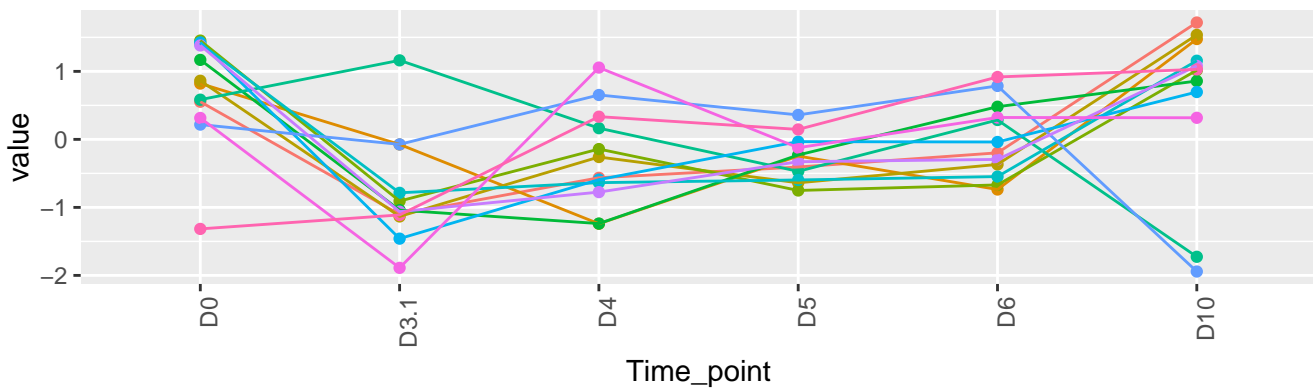
12 genes – KO-cluster-75-standardized



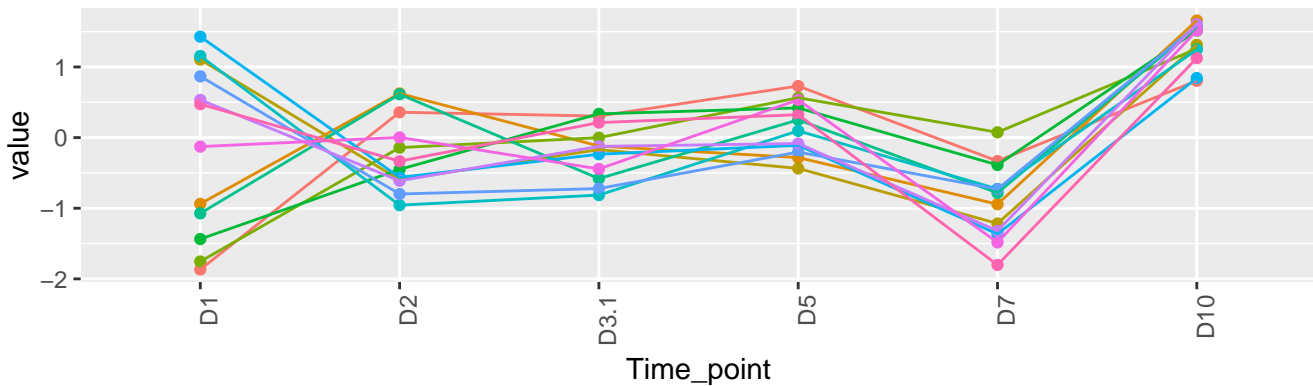
12 genes – WT-cluster-74-standardized



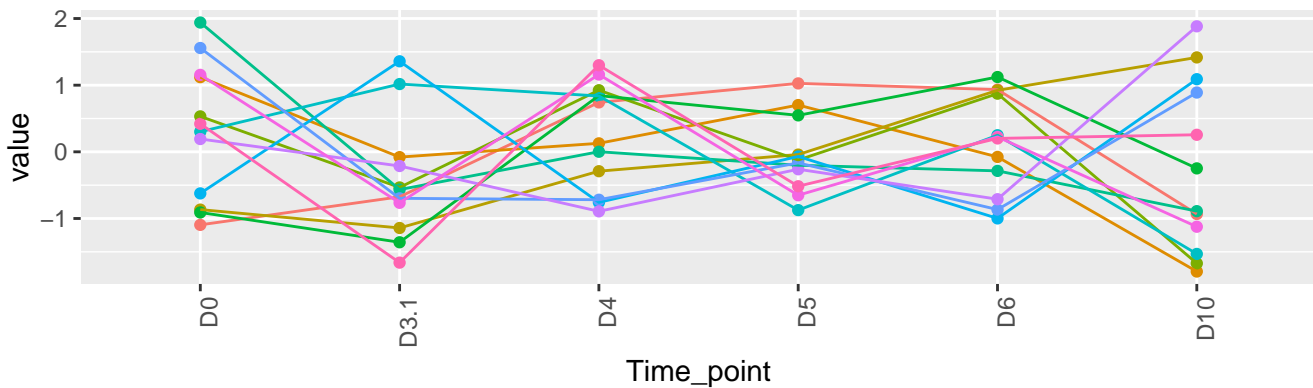
12 genes – KO-cluster-74-standardized



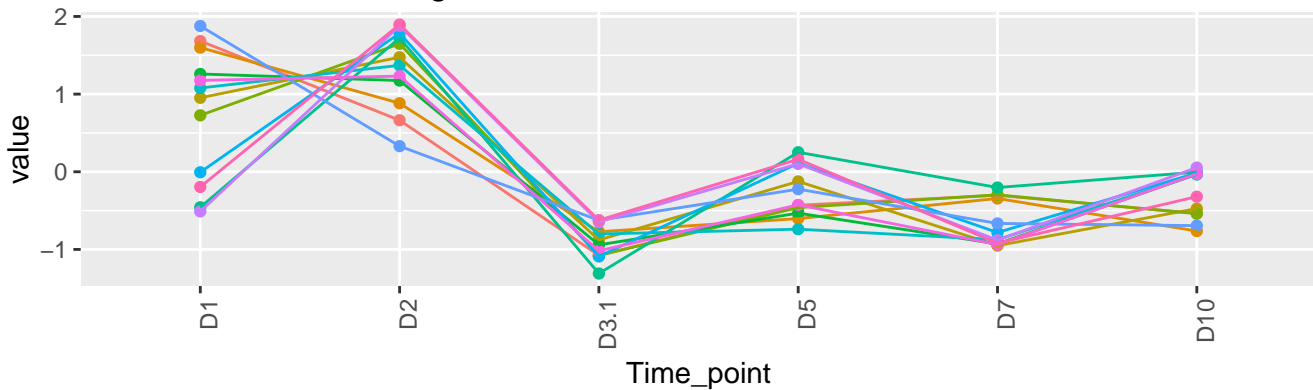
12 genes – WT-cluster-73-standardized



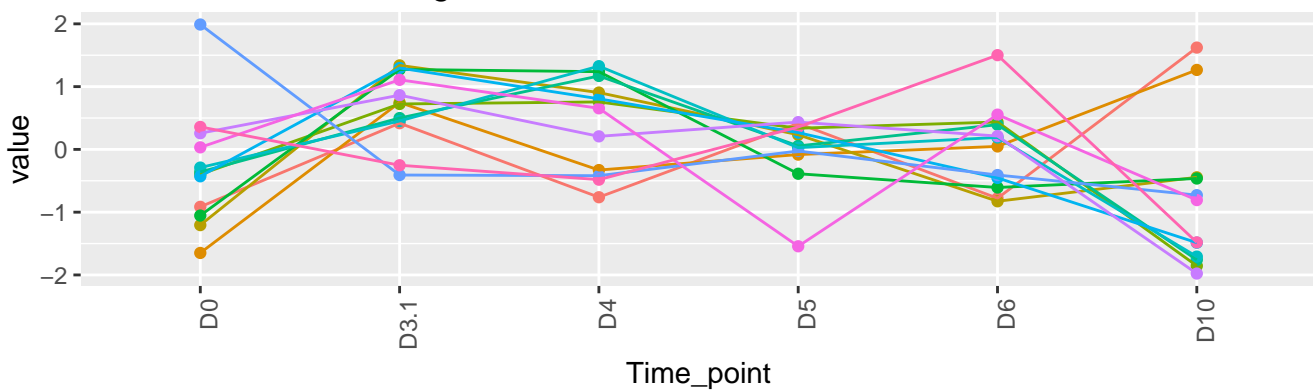
12 genes – KO-cluster-73-standardized



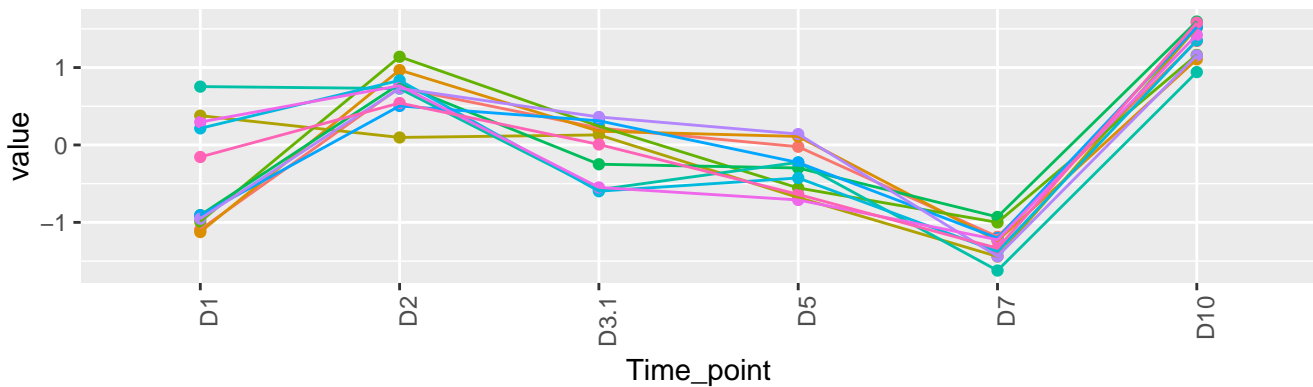
12 genes – WT-cluster-72-standardized



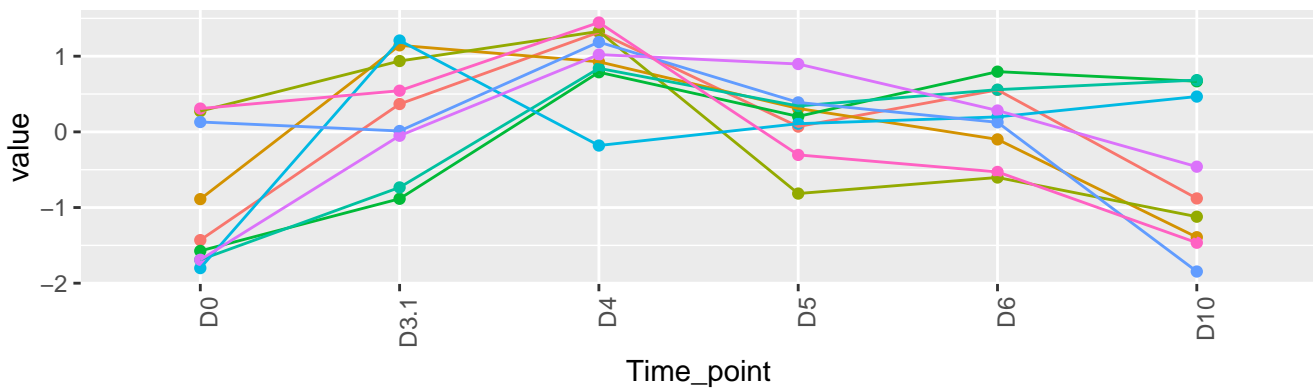
12 genes – KO-cluster-72-standardized



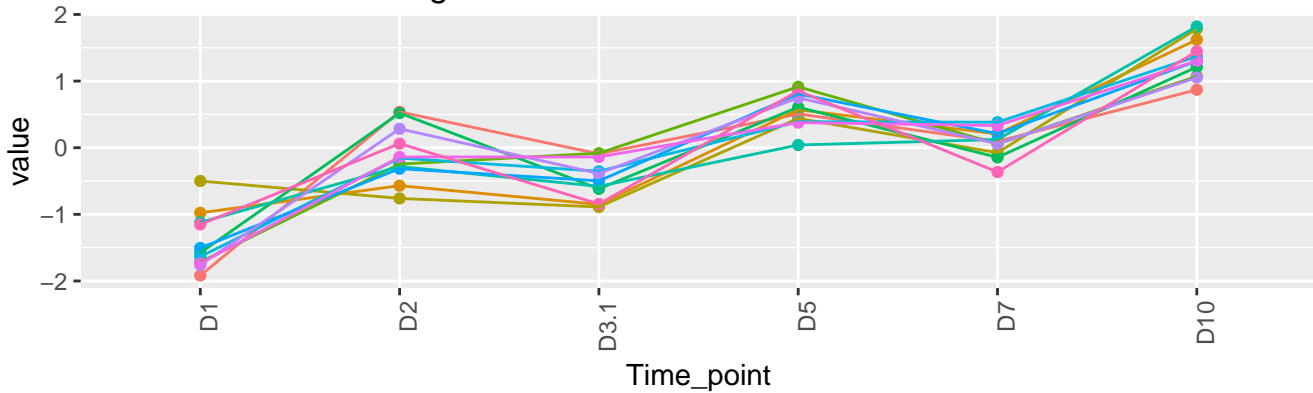
11 genes – WT-cluster-71-standardized



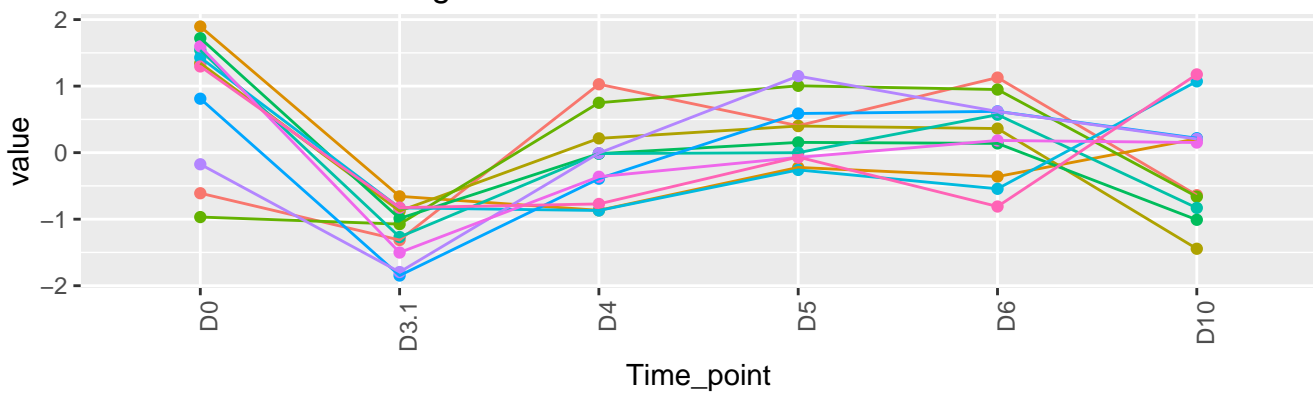
9 genes – KO-cluster-71-standardized



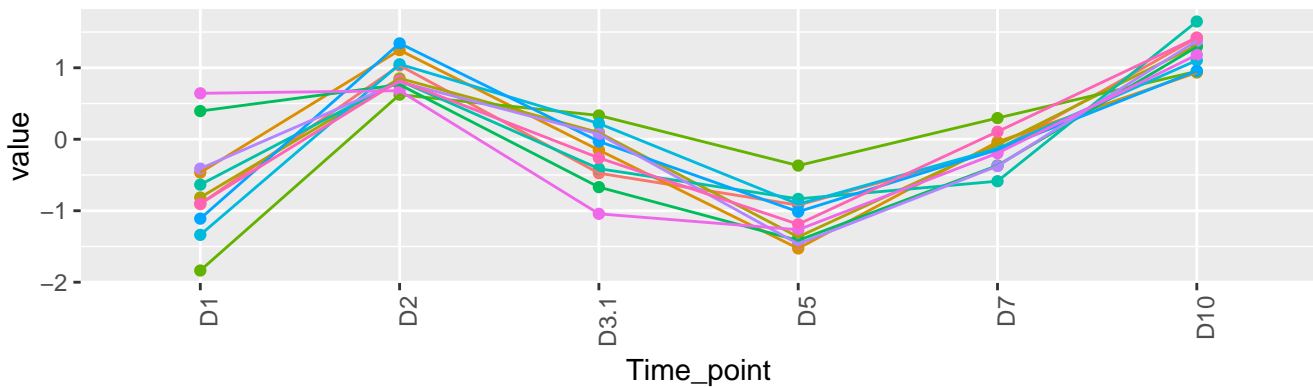
11 genes – WT-cluster-70-standardized



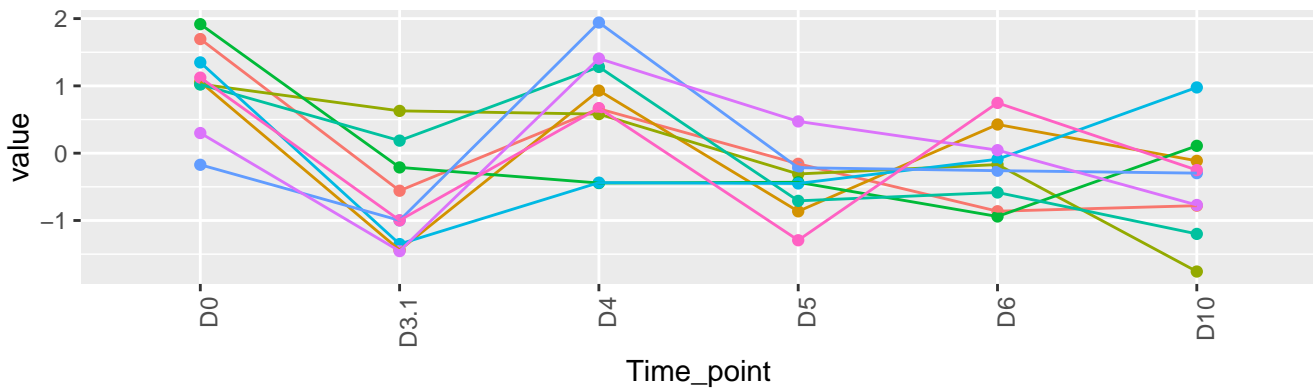
11 genes – KO-cluster-70-standardized



11 genes – WT-cluster-69-standardized

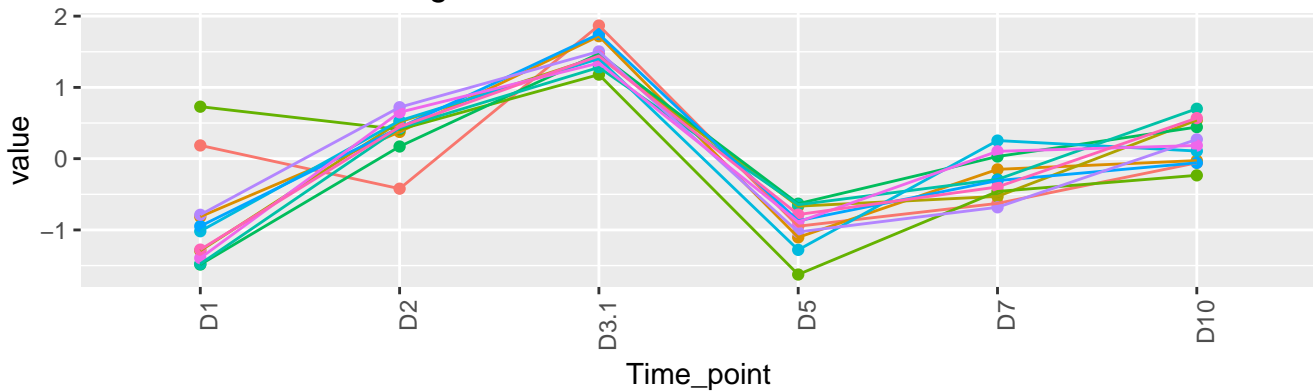


9 genes – KO-cluster-69-standardized

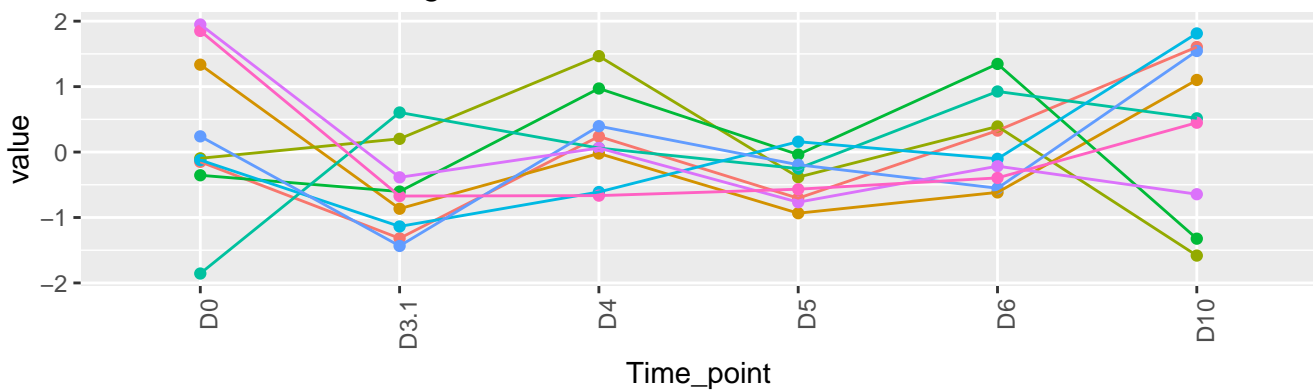




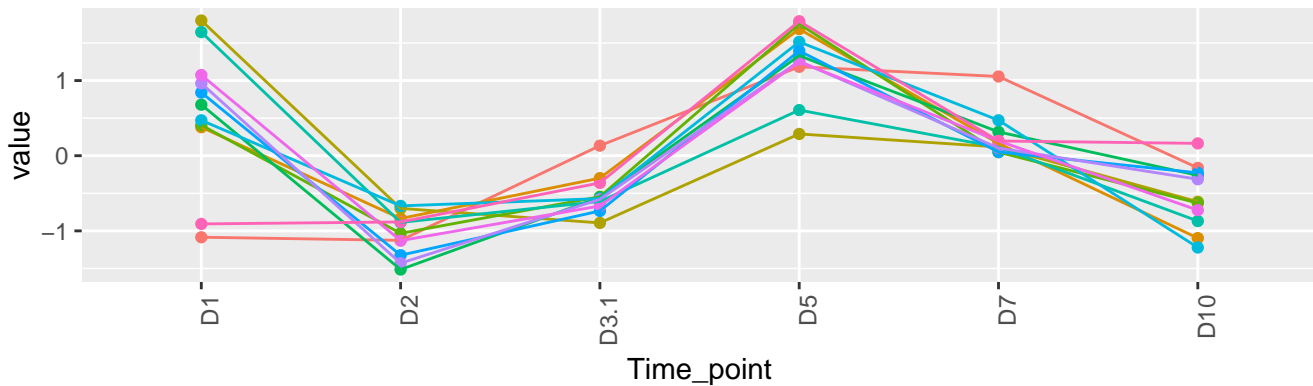
11 genes – WT-cluster-68-standardized



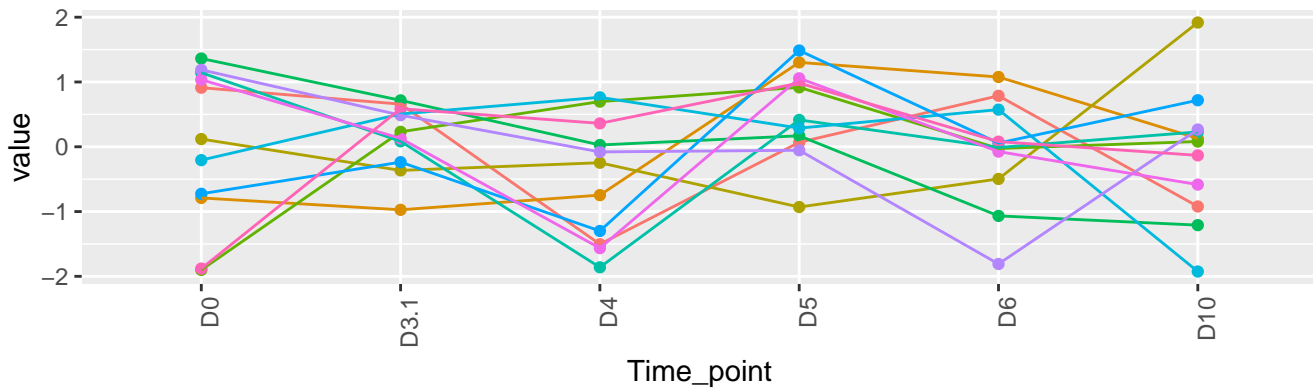
9 genes – KO-cluster-68-standardized



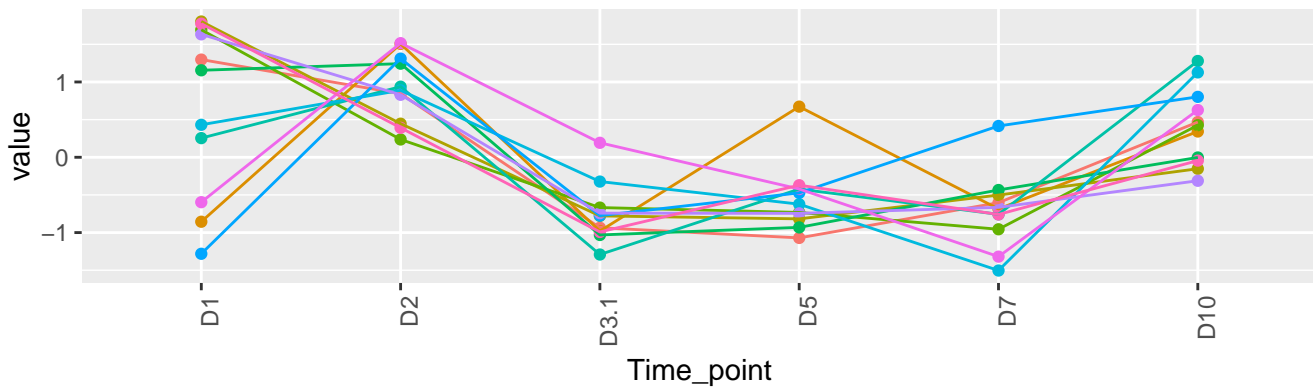
11 genes – WT-cluster-67-standardized



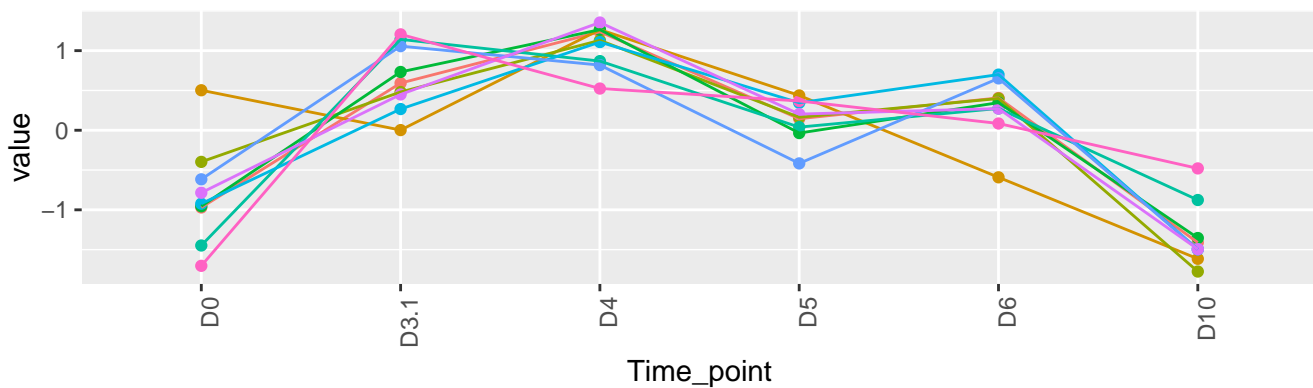
11 genes – KO-cluster-67-standardized



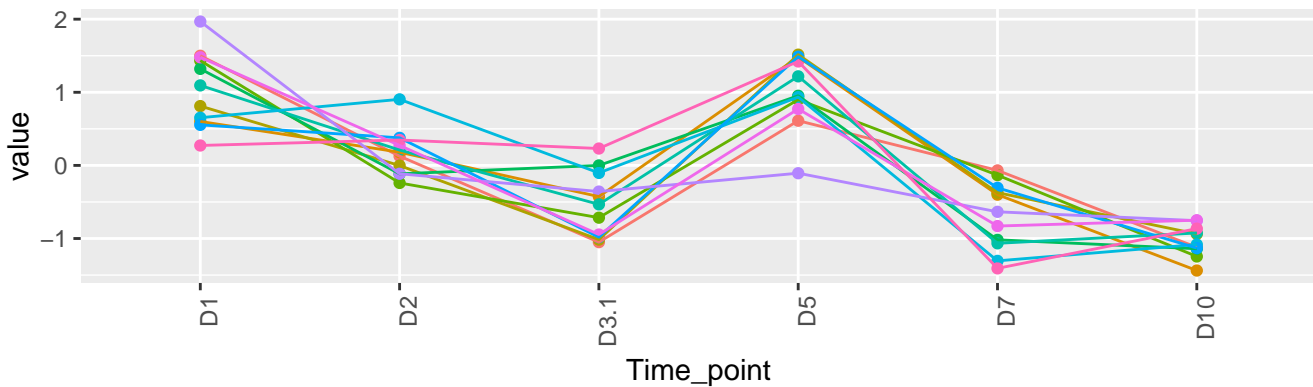
11 genes – WT-cluster-66-standardized



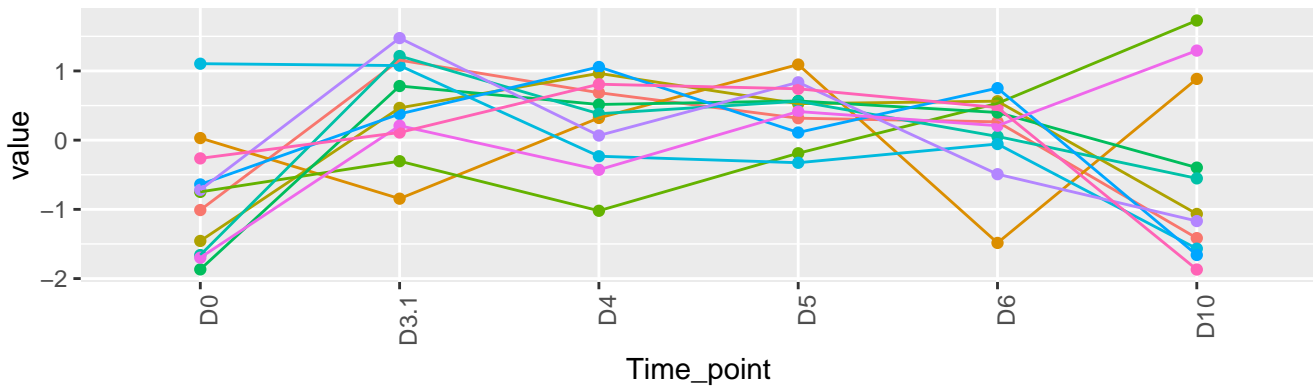
9 genes – KO-cluster-66-standardized



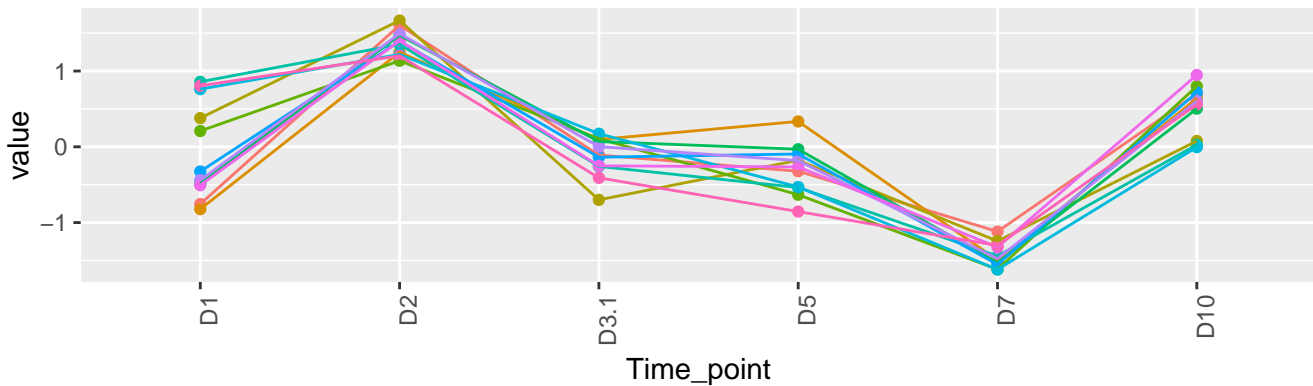
11 genes – WT-cluster-65-standardized



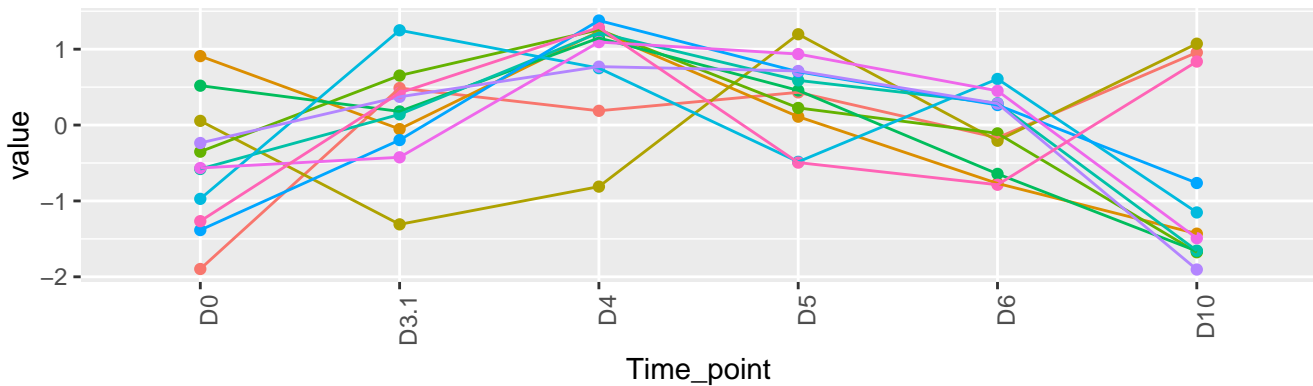
11 genes – KO-cluster-65-standardized



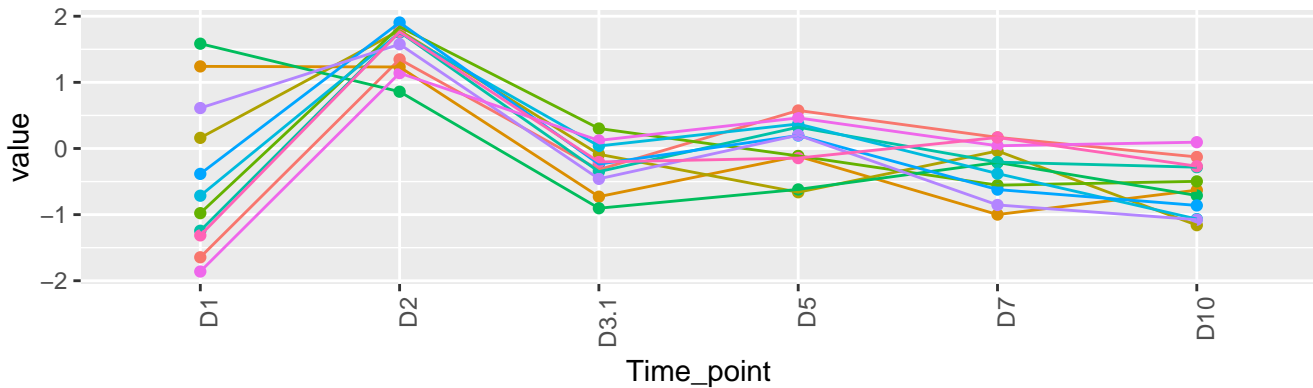
11 genes – WT-cluster-64-standardized



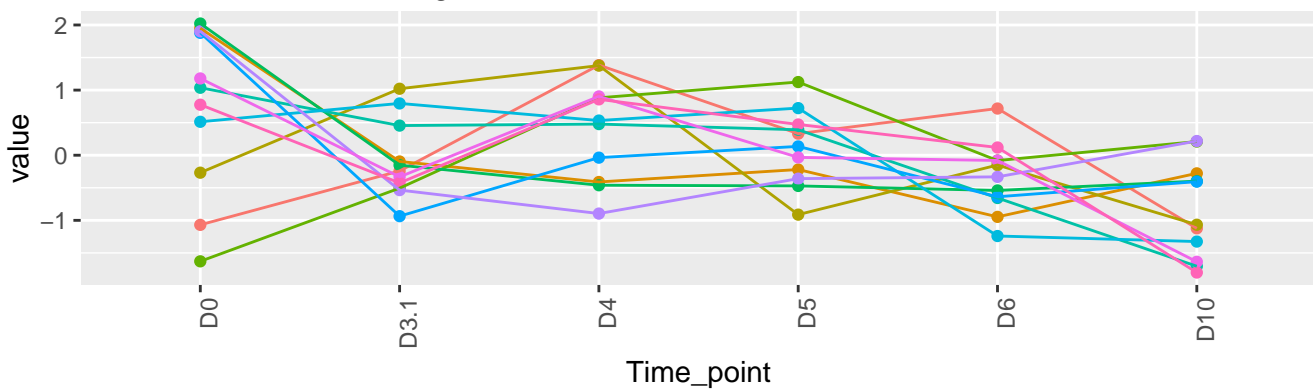
11 genes – KO-cluster-64-standardized



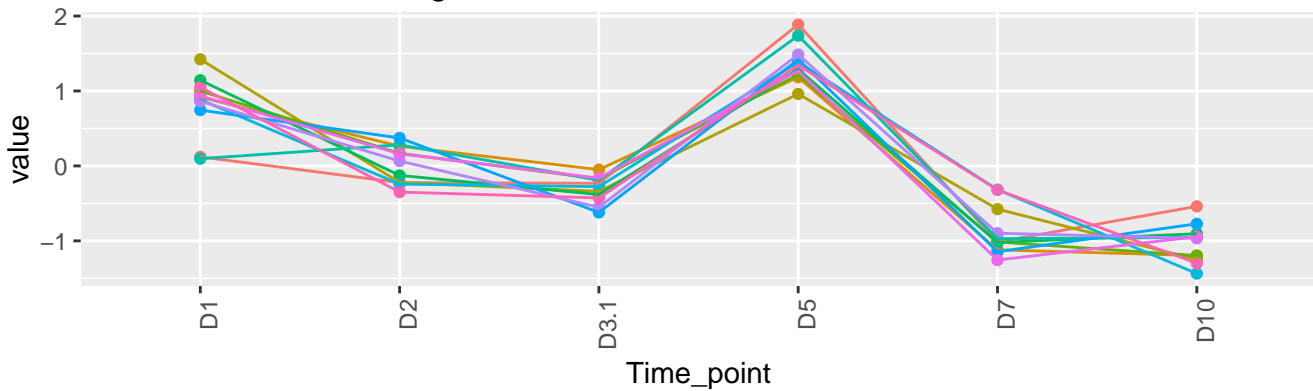
11 genes – WT-cluster-63-standardized



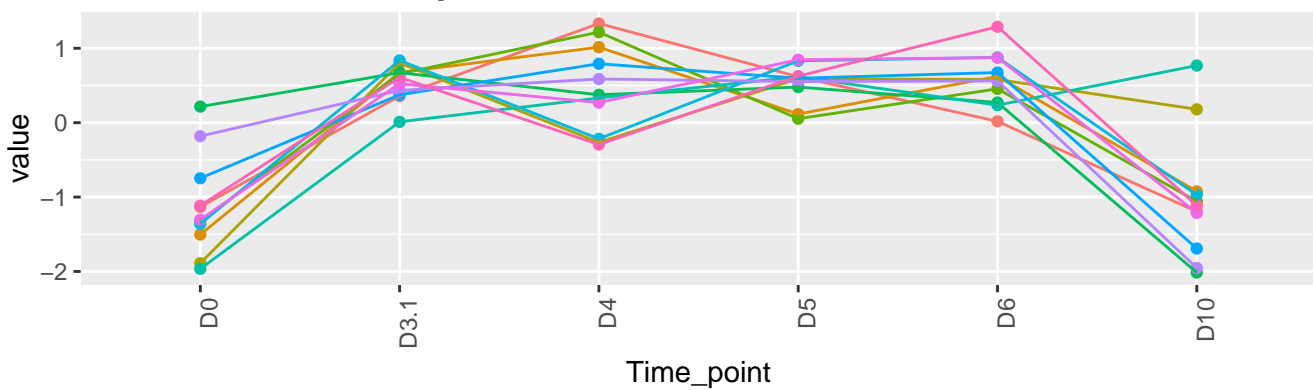
11 genes – KO-cluster-63-standardized



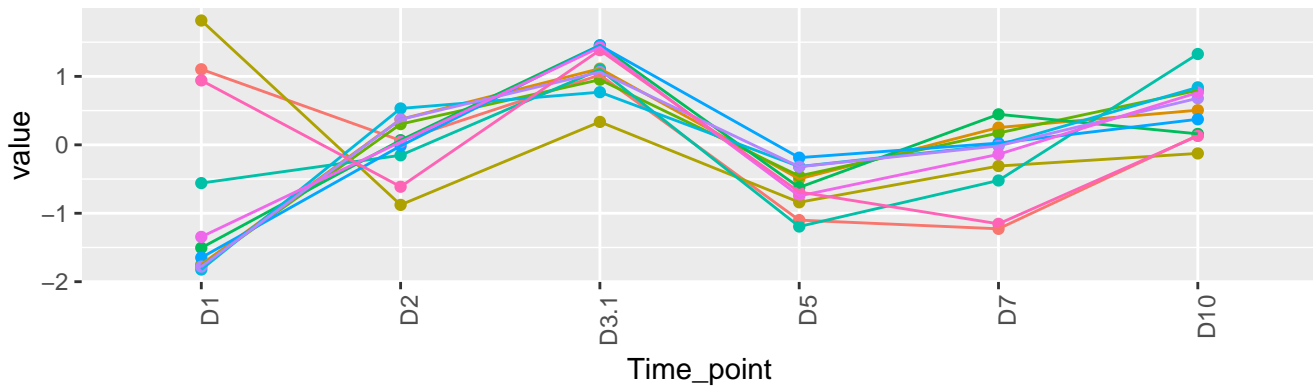
11 genes – WT-cluster-62-standardized



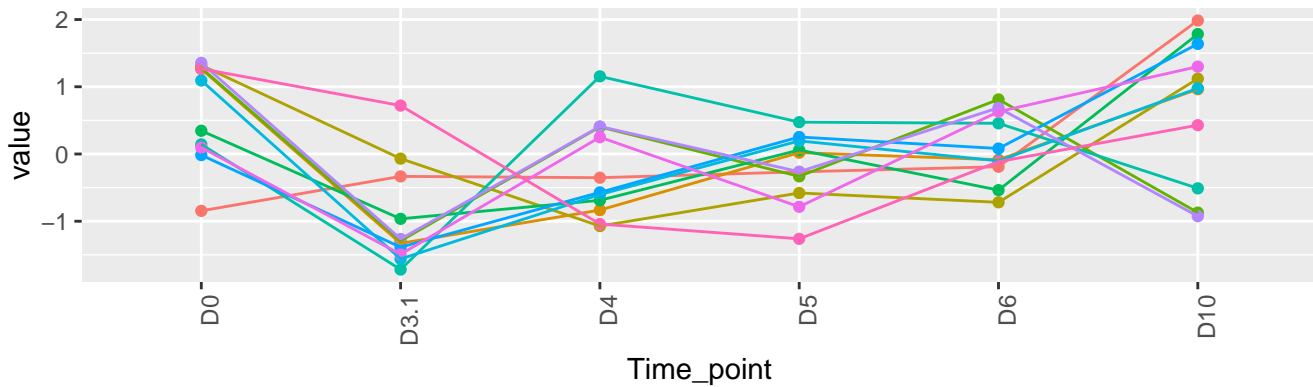
11 genes – KO-cluster-62-standardized



11 genes – WT-cluster-61-standardized

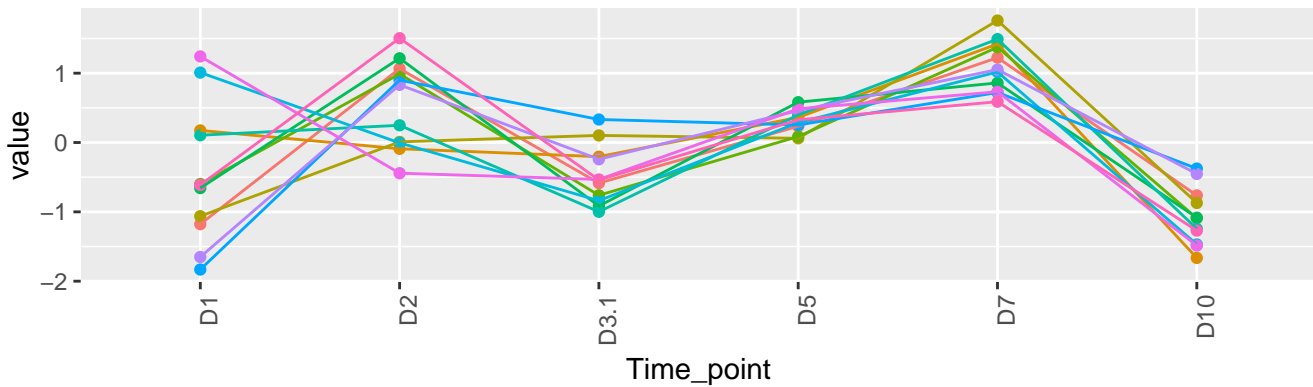


11 genes – KO-cluster-61-standardized

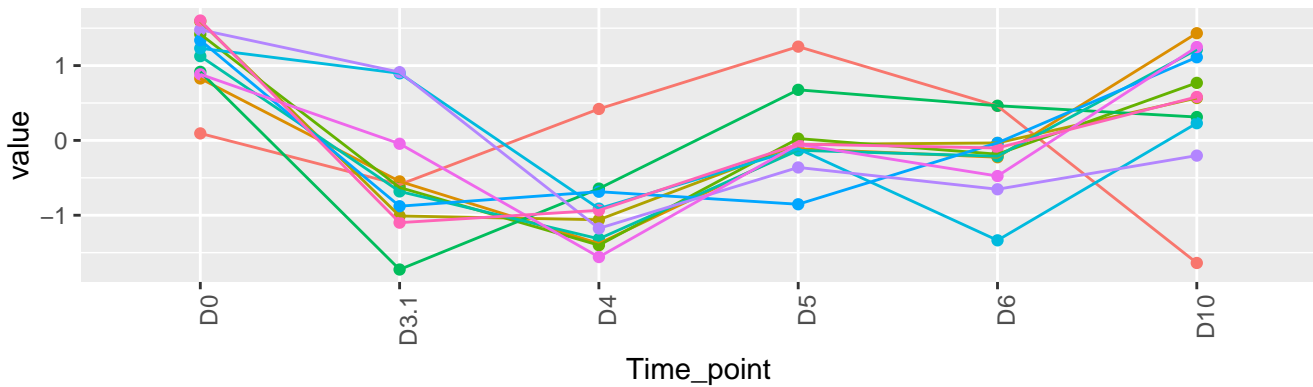




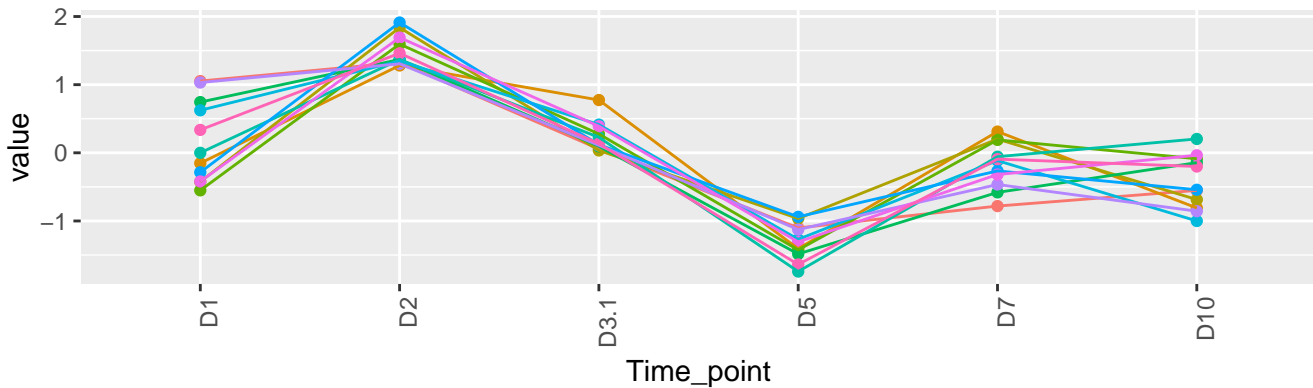
11 genes – WT-cluster-60-standardized



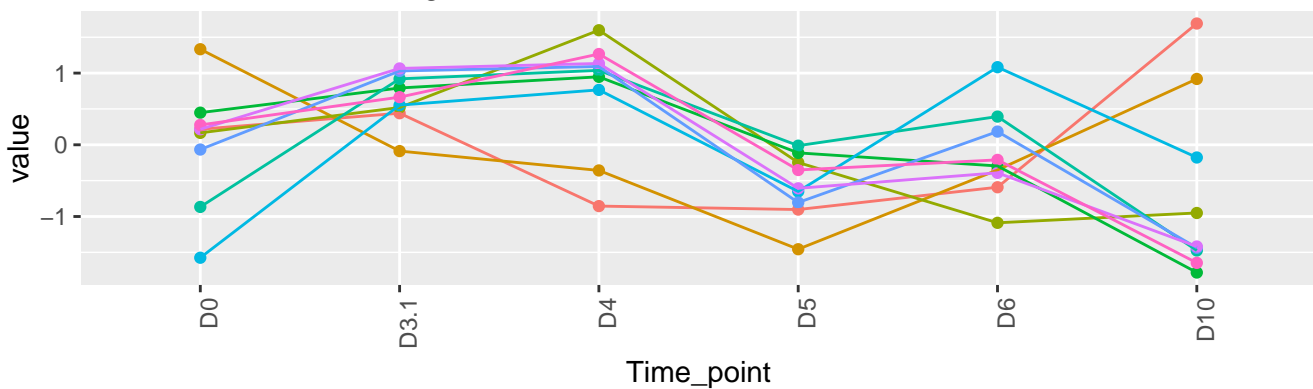
11 genes – KO-cluster-60-standardized



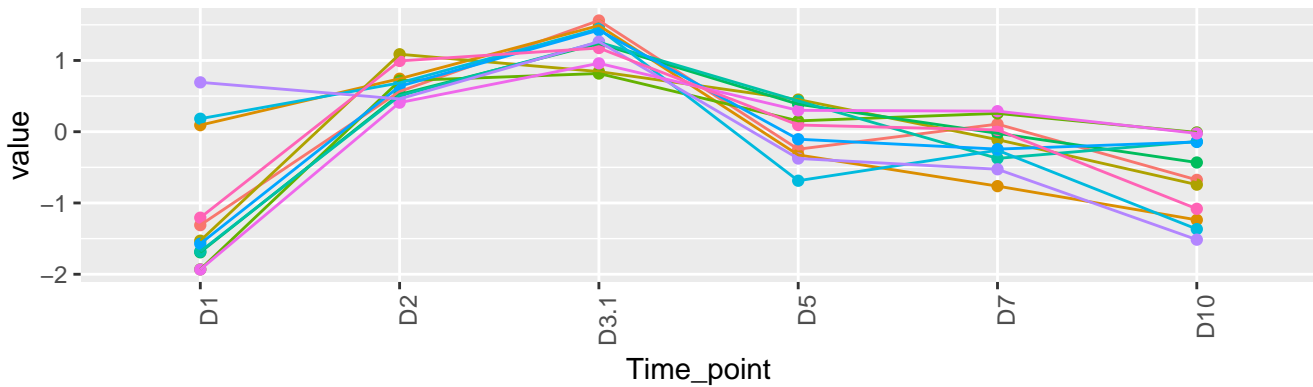
11 genes – WT-cluster-59-standardized



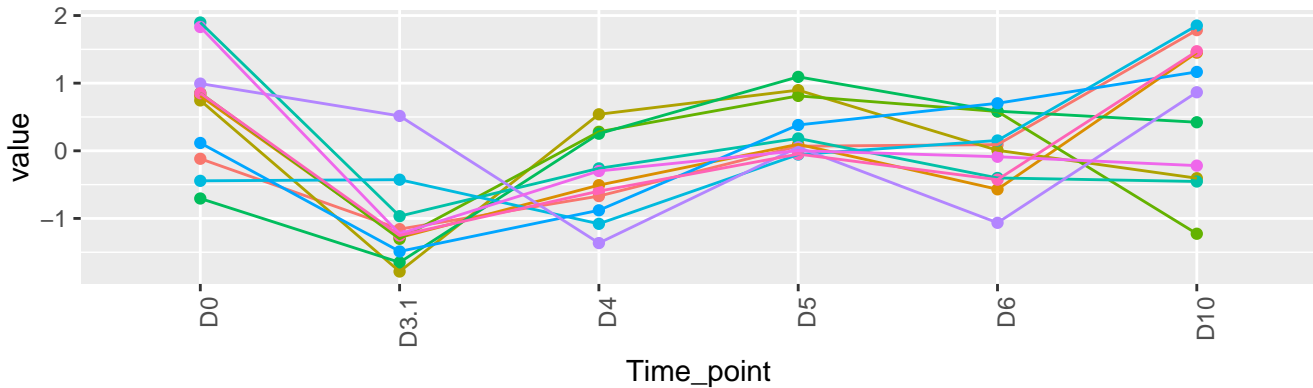
9 genes – KO-cluster-59-standardized



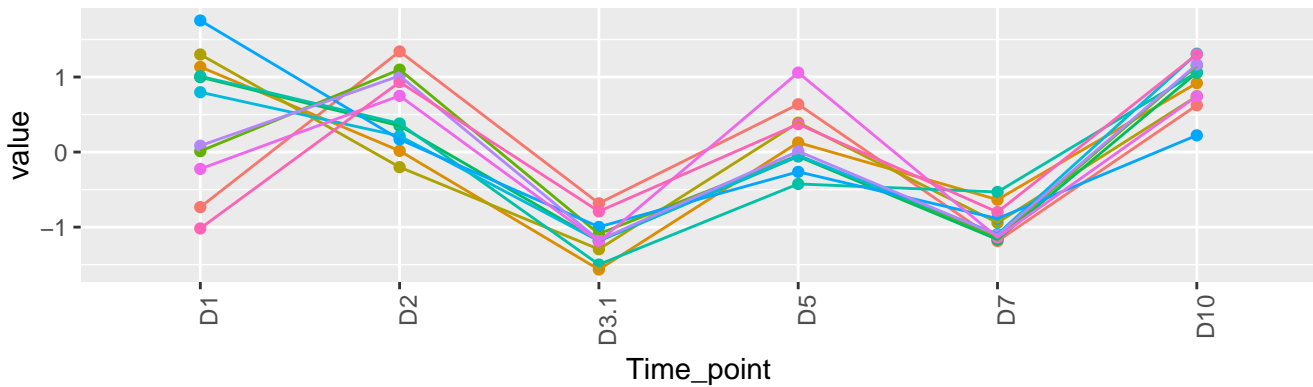
11 genes – WT-cluster-58-standardized



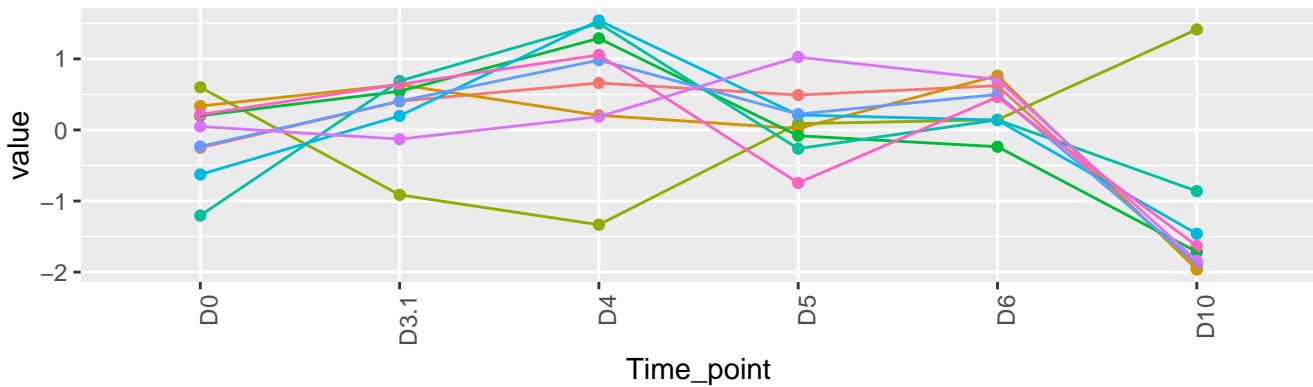
11 genes – KO-cluster-58-standardized



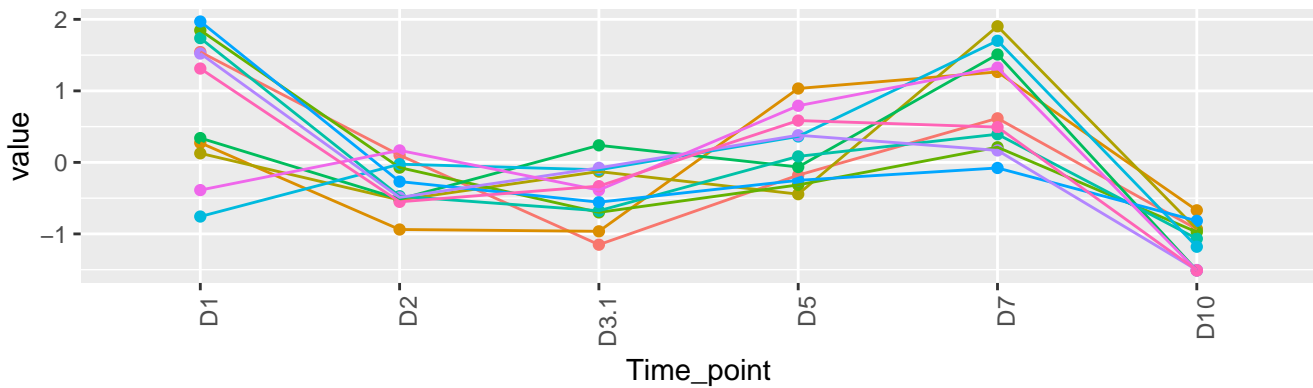
11 genes – WT-cluster-57-standardized



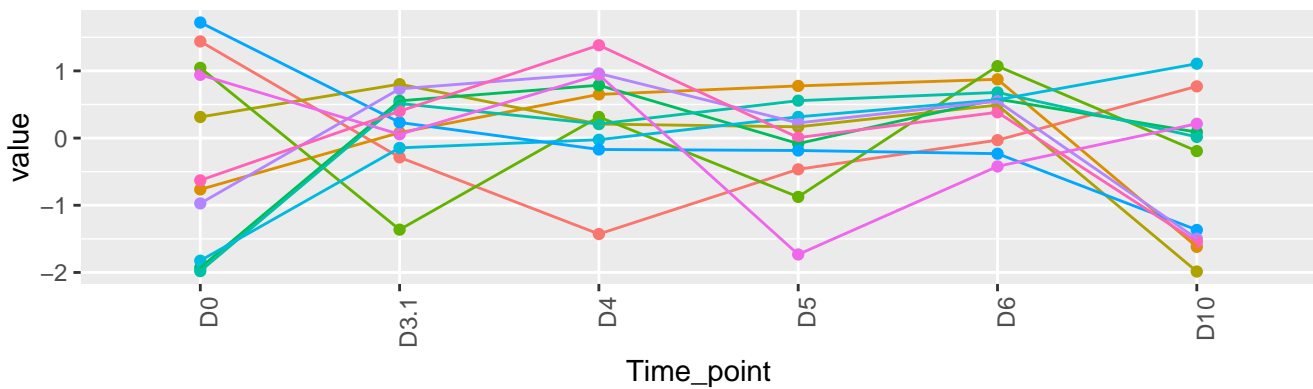
9 genes – KO-cluster-57-standardized



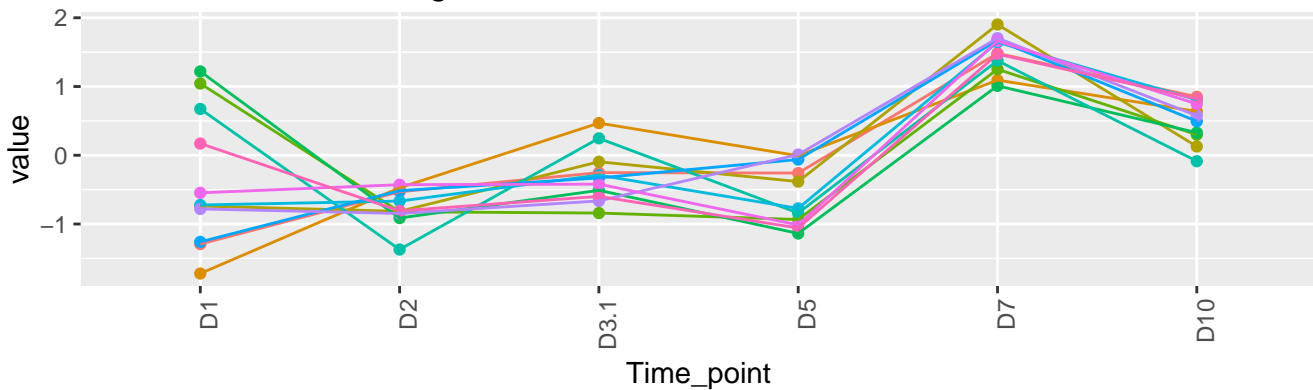
11 genes – WT-cluster-56-standardized



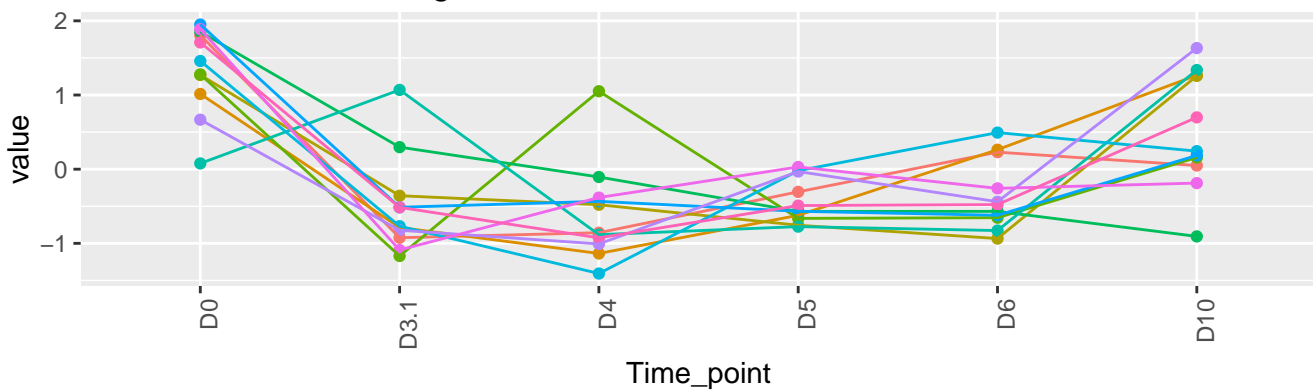
11 genes – KO-cluster-56-standardized



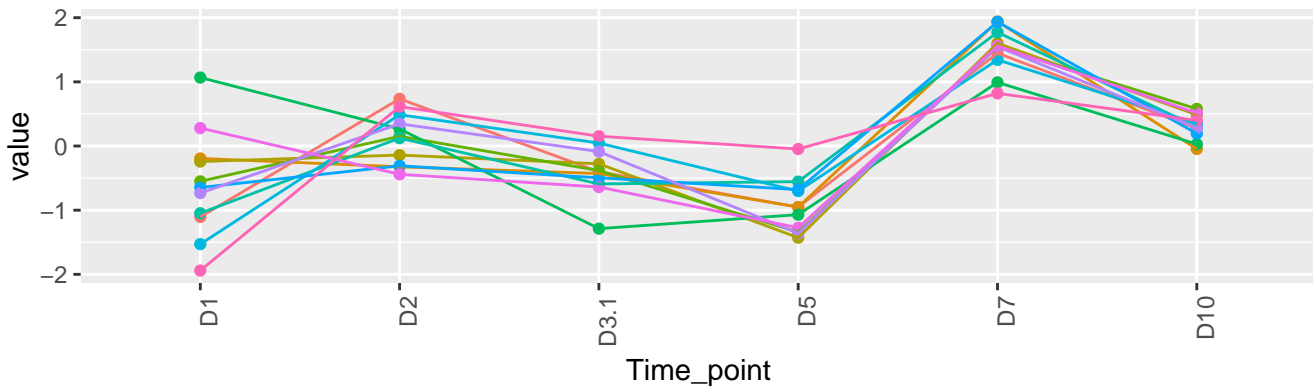
11 genes – WT-cluster-55-standardized



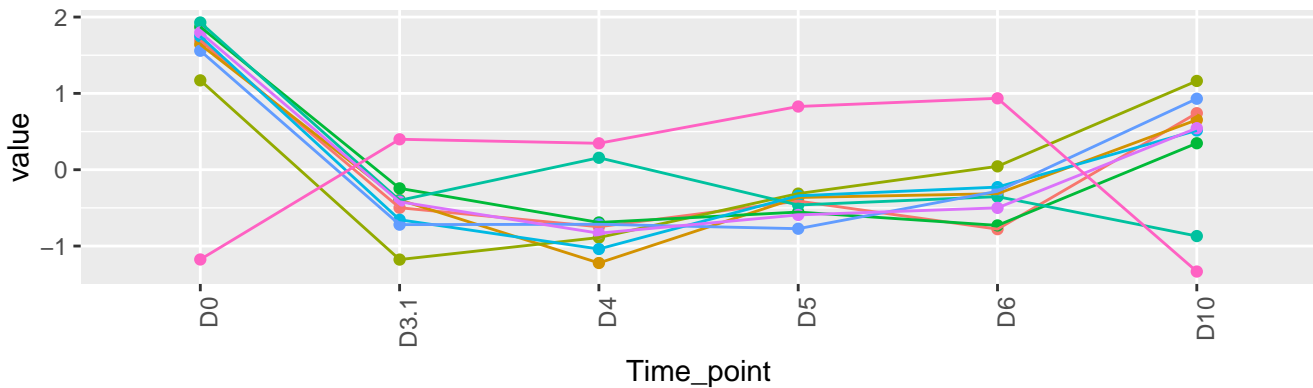
11 genes – KO-cluster-55-standardized



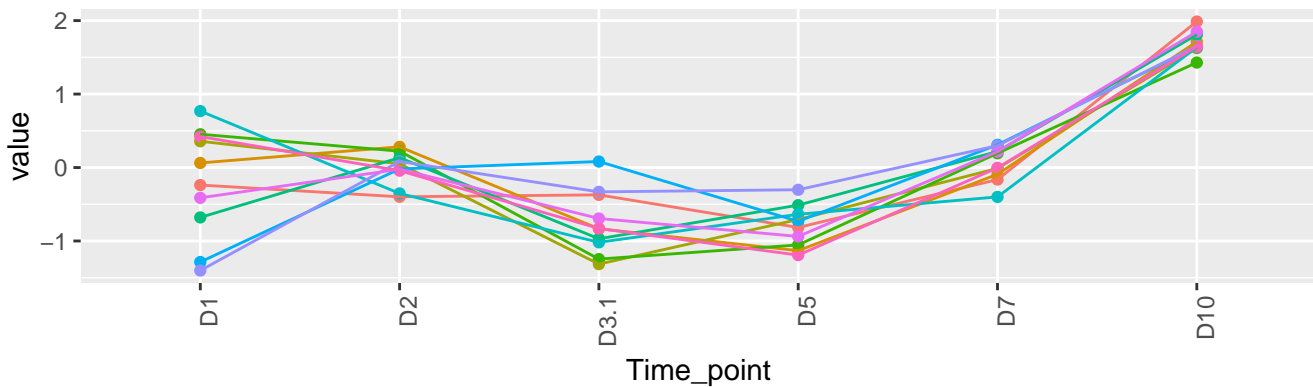
11 genes – WT-cluster-54-standardized



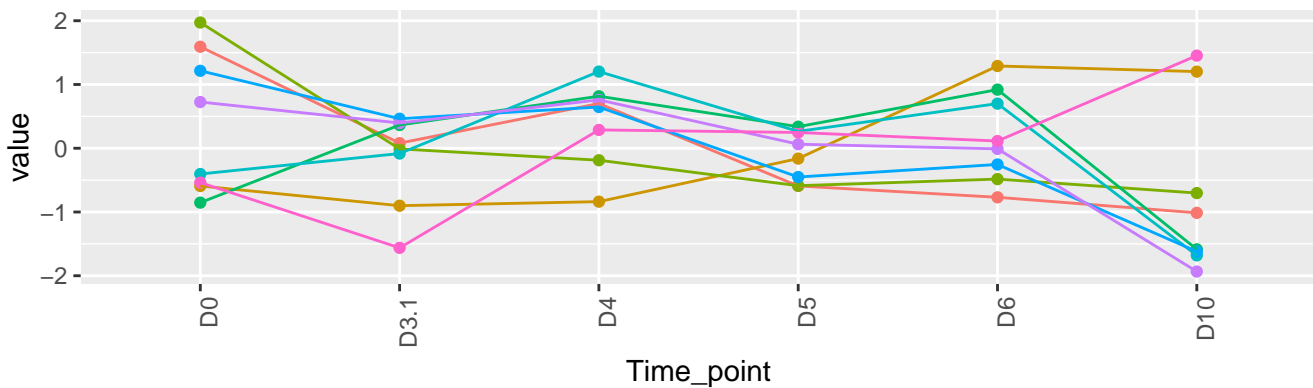
9 genes – KO-cluster-54-standardized



10 genes – WT-cluster-53-standardized

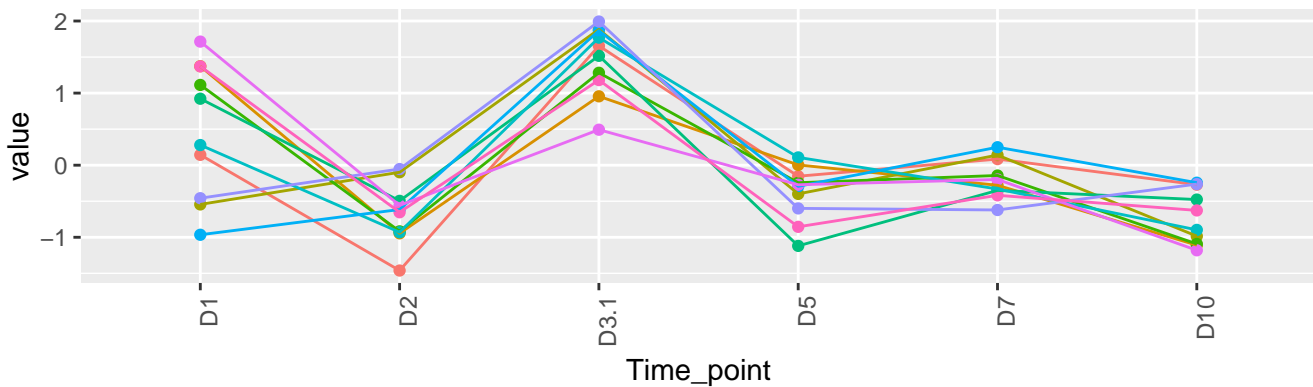


8 genes – KO-cluster-53-standardized

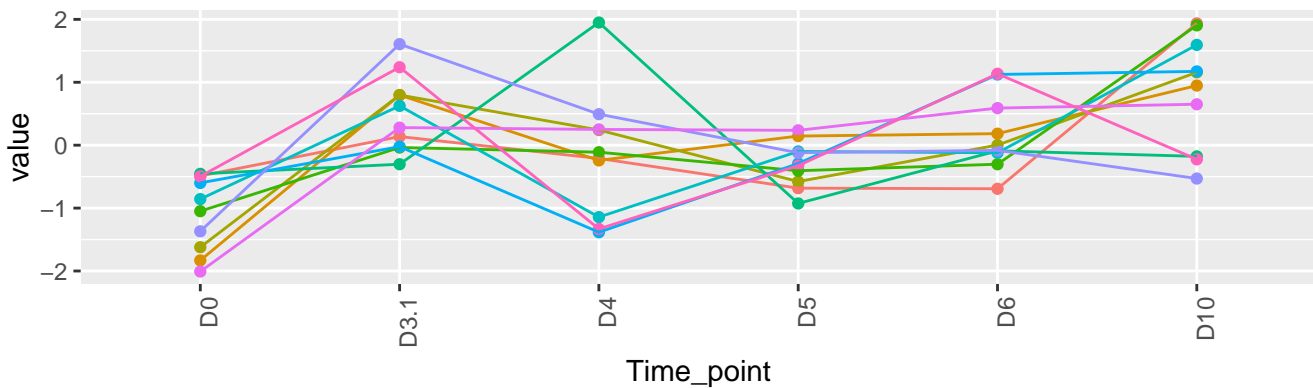




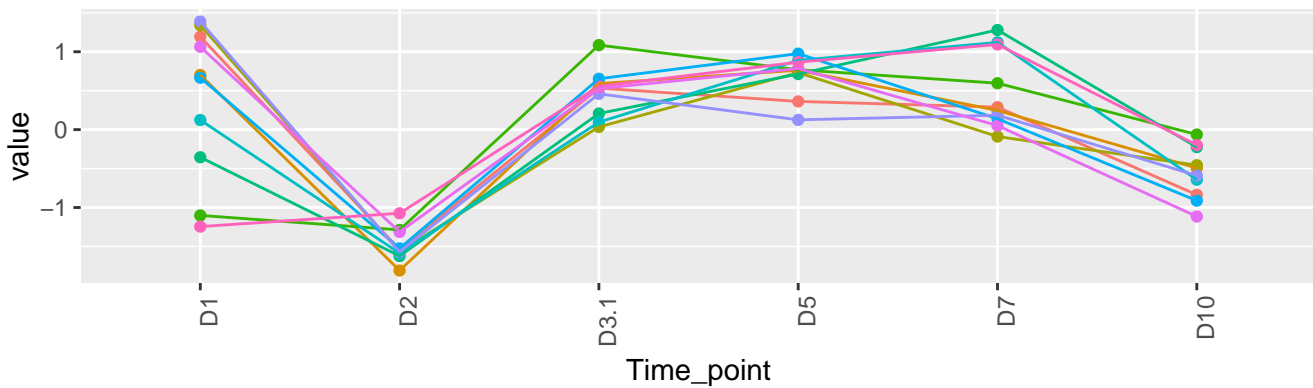
10 genes – WT-cluster-52-standardized



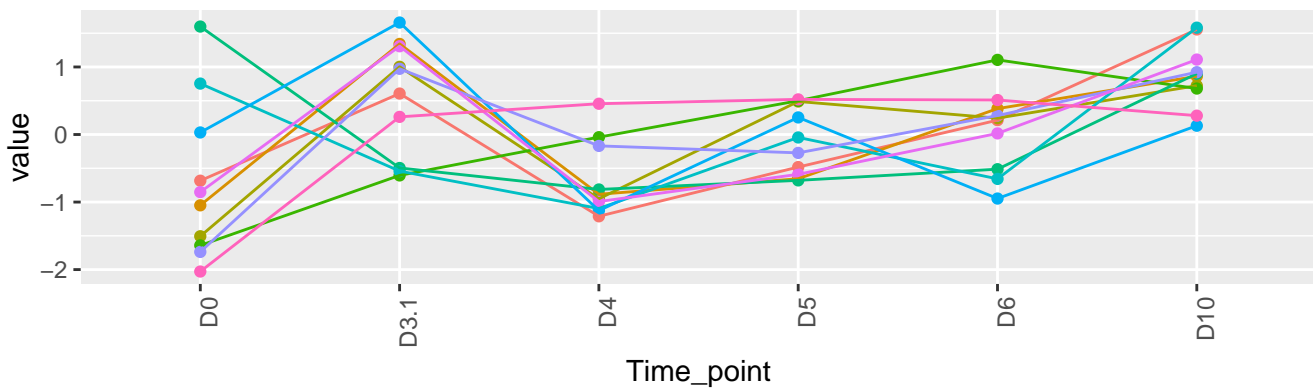
10 genes – KO-cluster-52-standardized



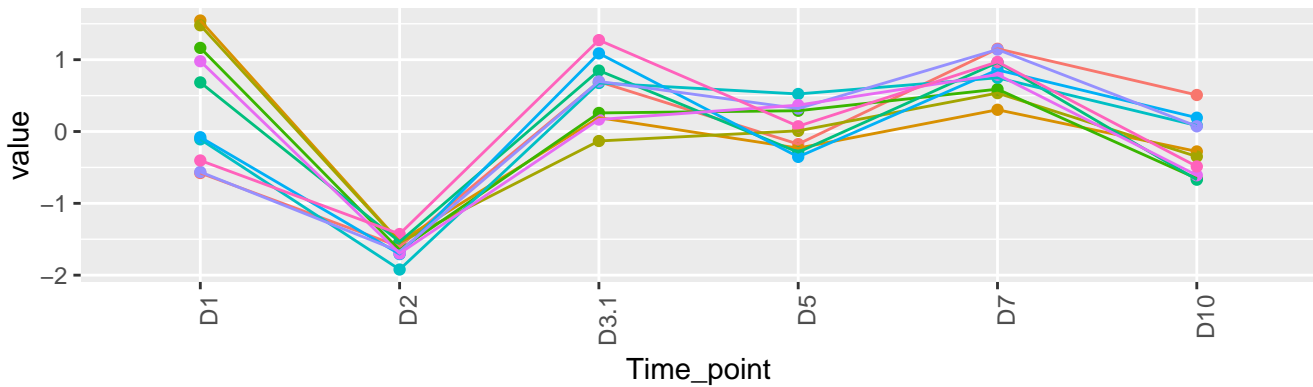
10 genes – WT-cluster-51-standardized



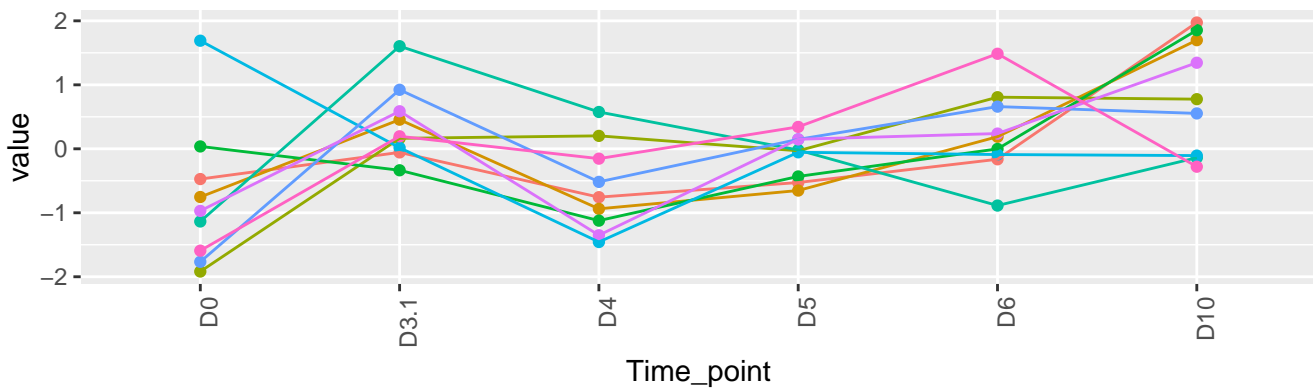
10 genes – KO-cluster-51-standardized



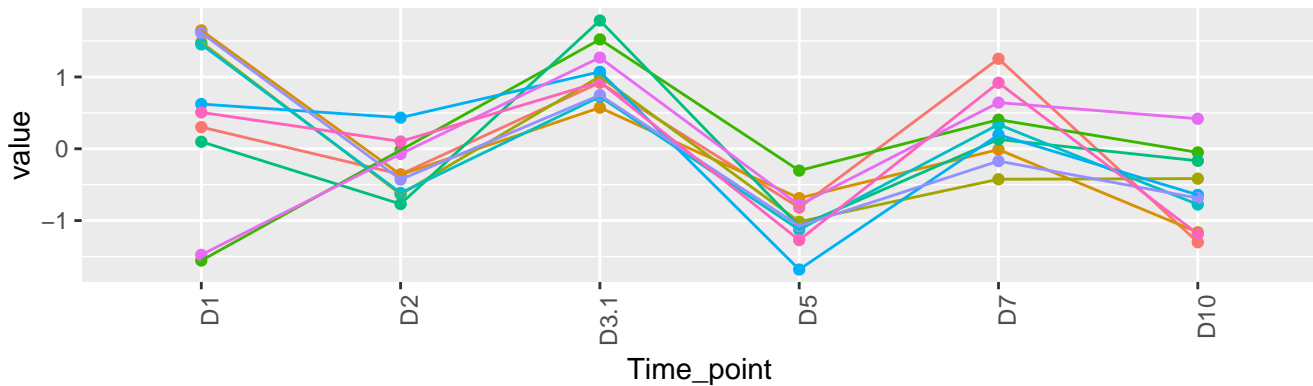
10 genes – WT-cluster-50-standardized



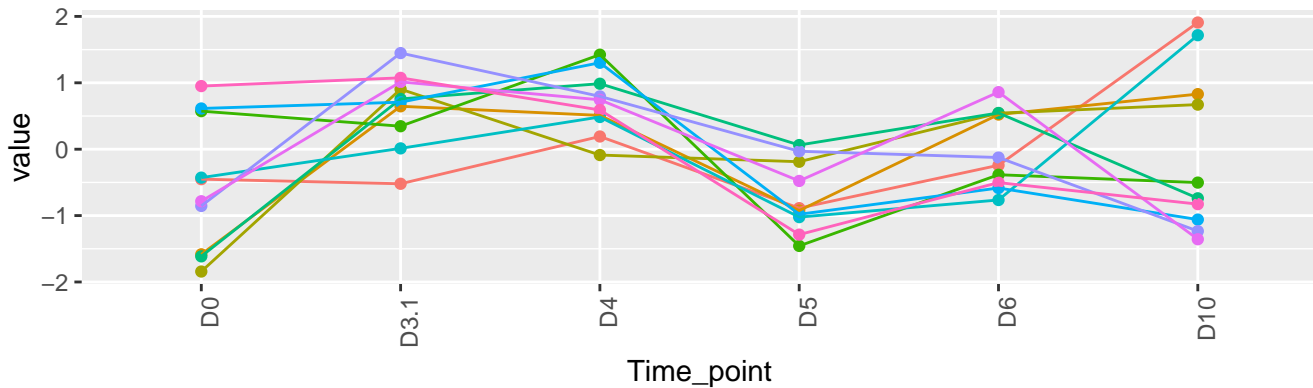
9 genes – KO-cluster-50-standardized



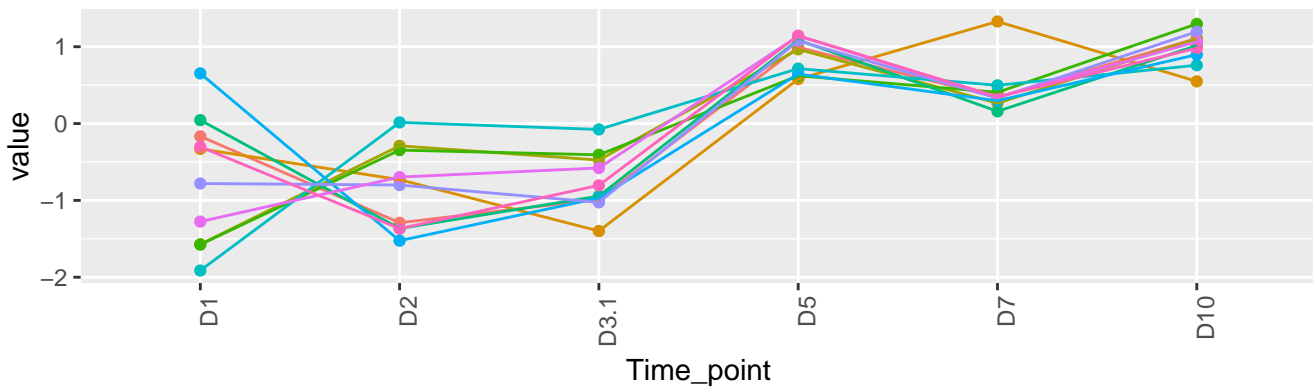
10 genes – WT-cluster-49-standardized



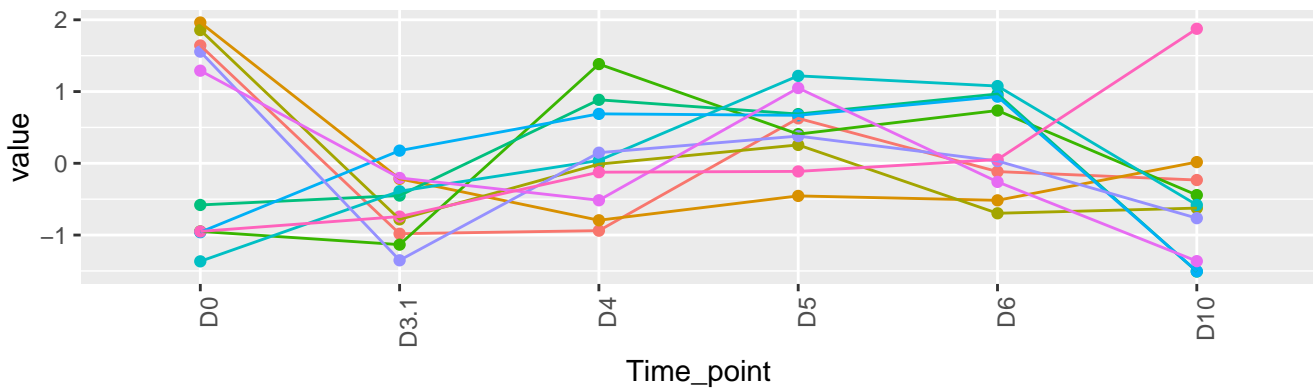
10 genes – KO-cluster-49-standardized



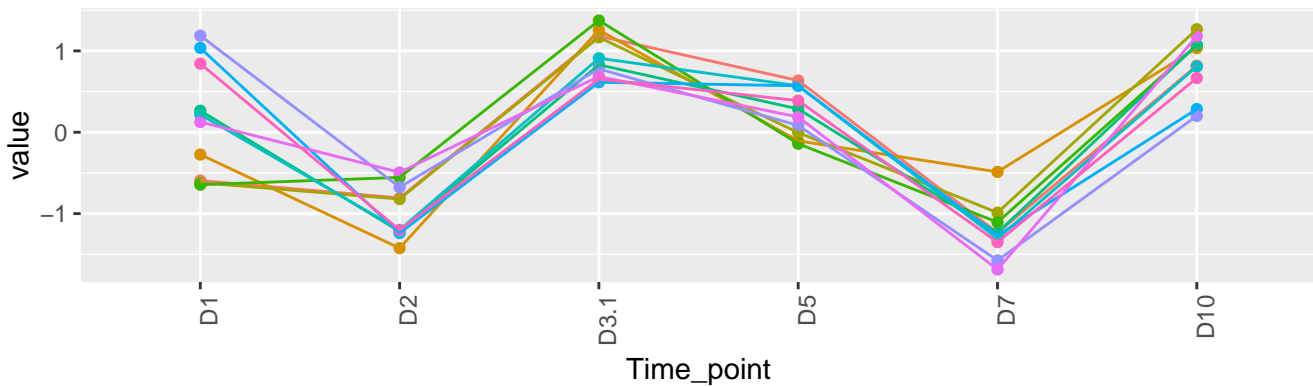
10 genes – WT-cluster-48-standardized



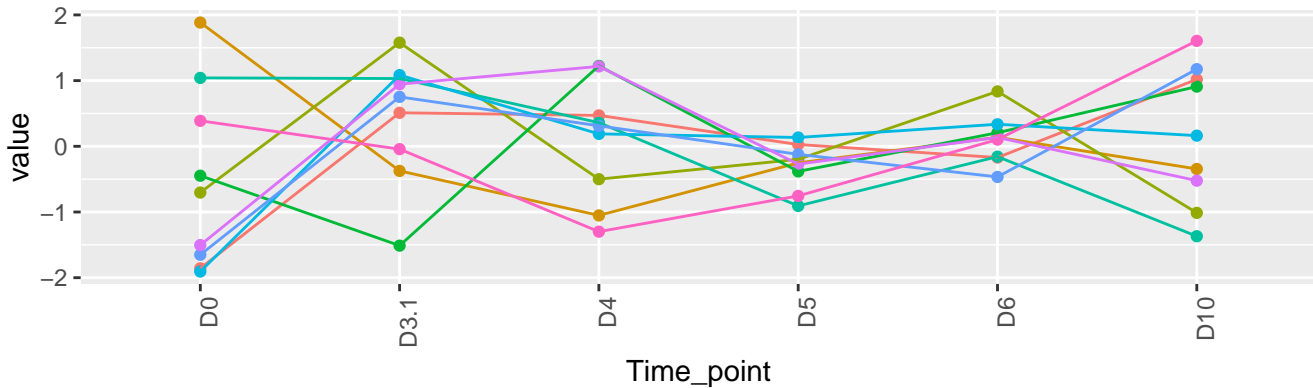
10 genes – KO-cluster-48-standardized



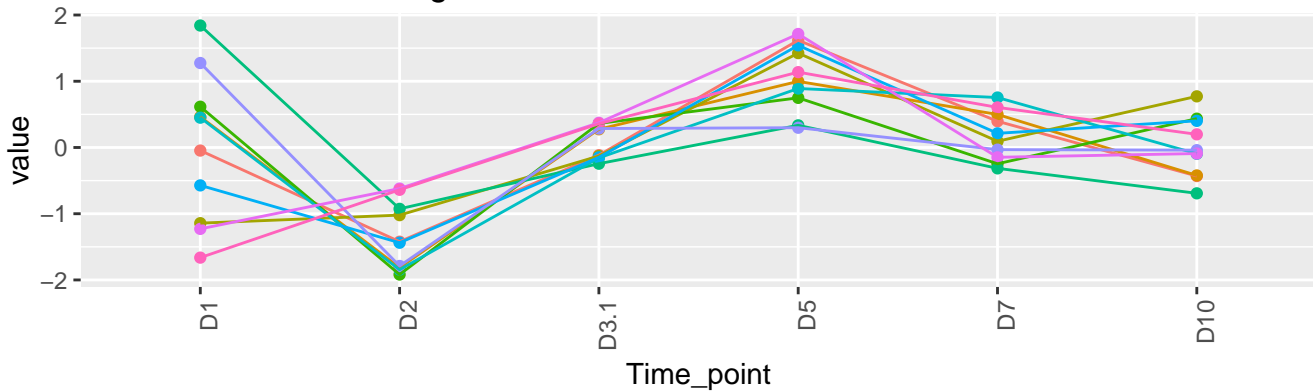
10 genes – WT-cluster-47-standardized



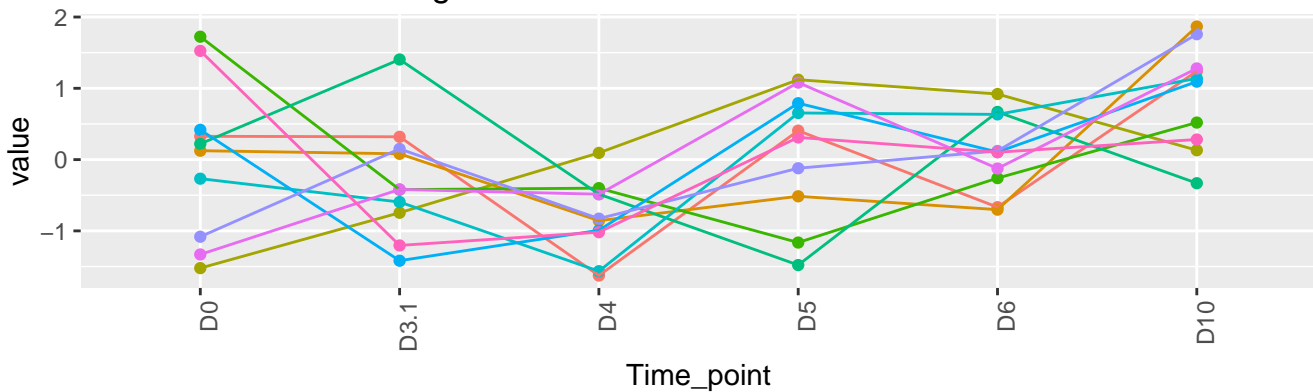
9 genes – KO-cluster-47-standardized



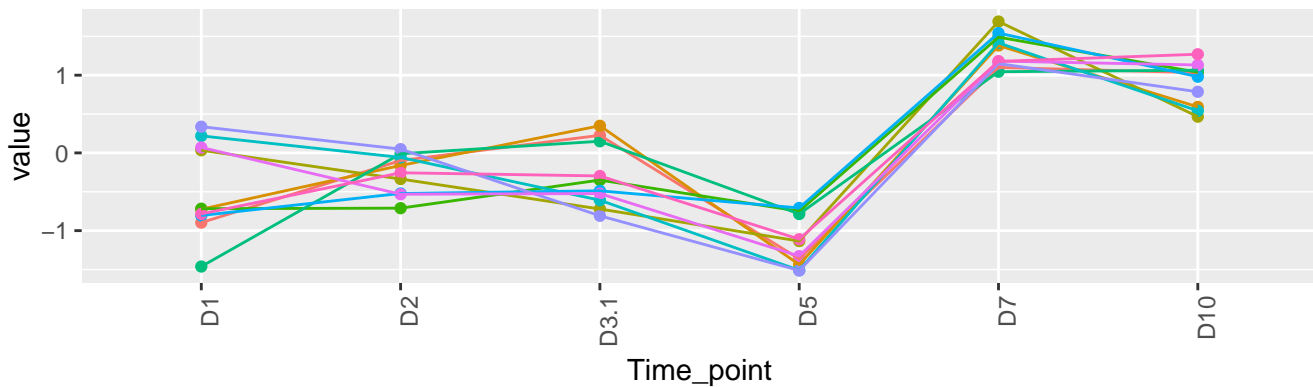
10 genes – WT-cluster-46-standardized



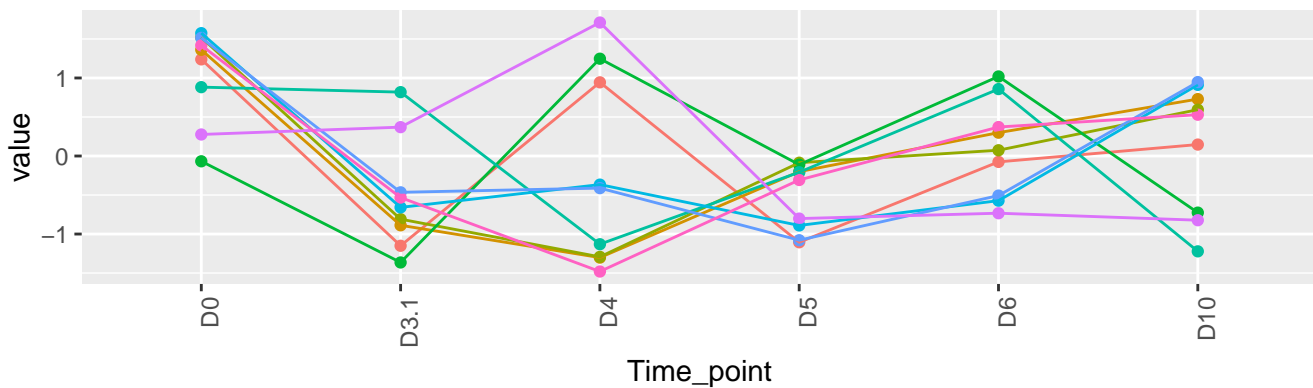
10 genes – KO-cluster-46-standardized



10 genes – WT-cluster-45-standardized

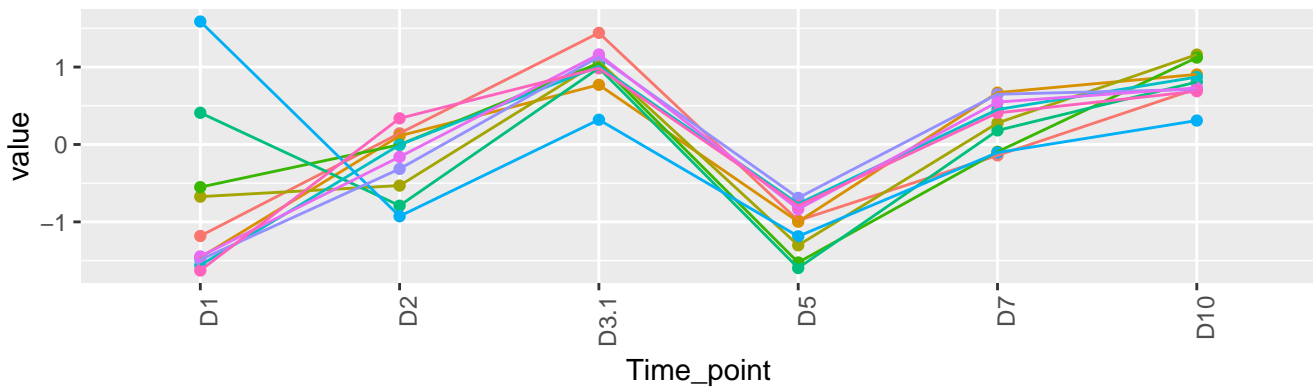


9 genes – KO-cluster-45-standardized

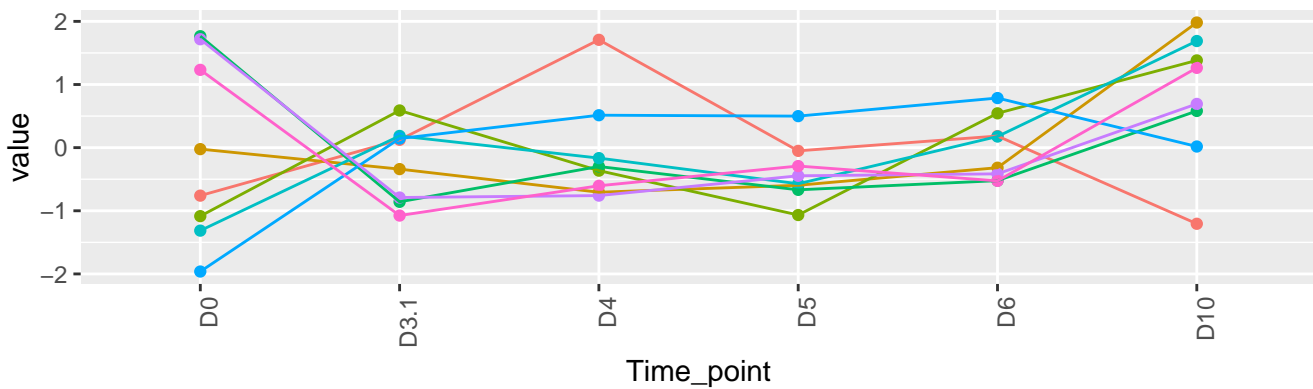




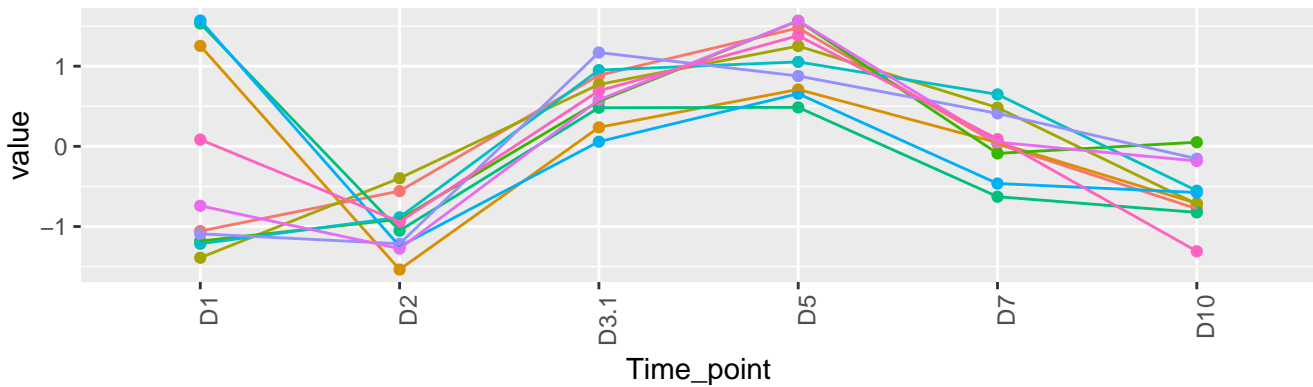
10 genes – WT-cluster-44-standardized



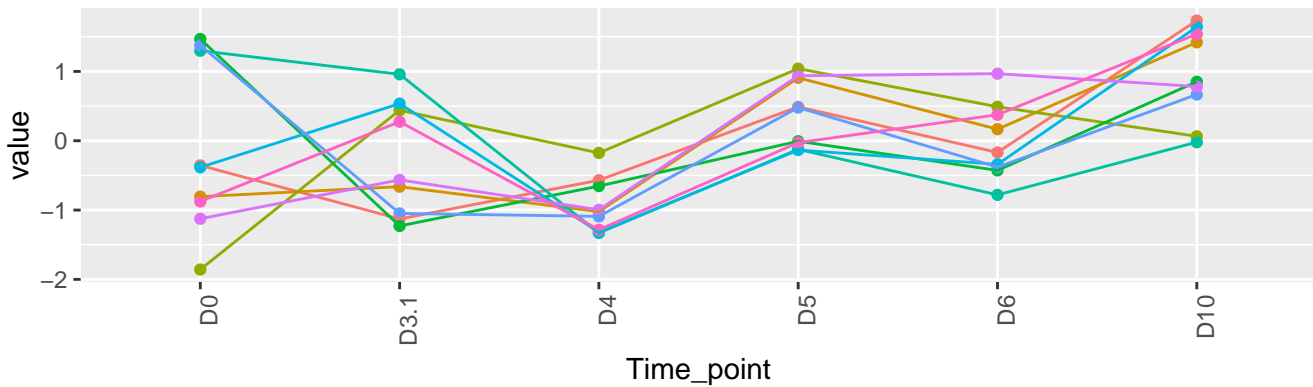
8 genes – KO-cluster-44-standardized



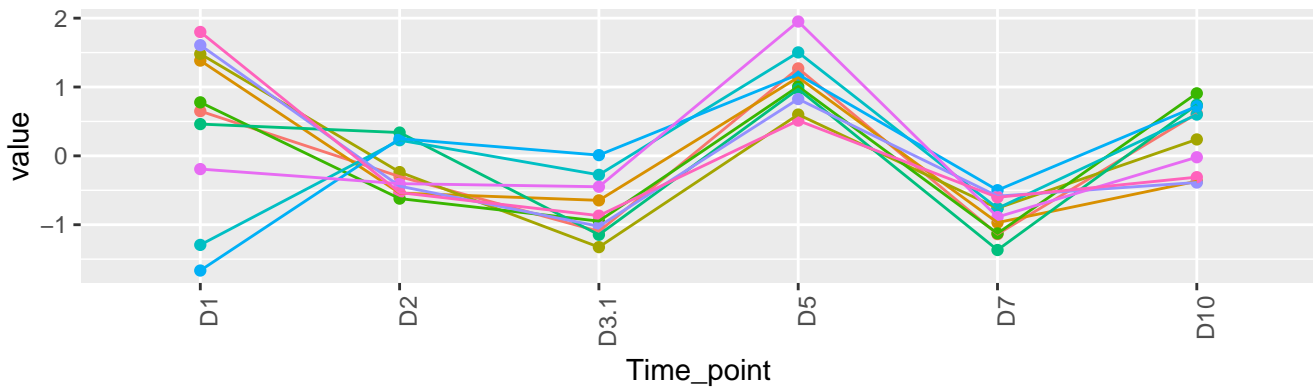
10 genes – WT-cluster-43-standardized



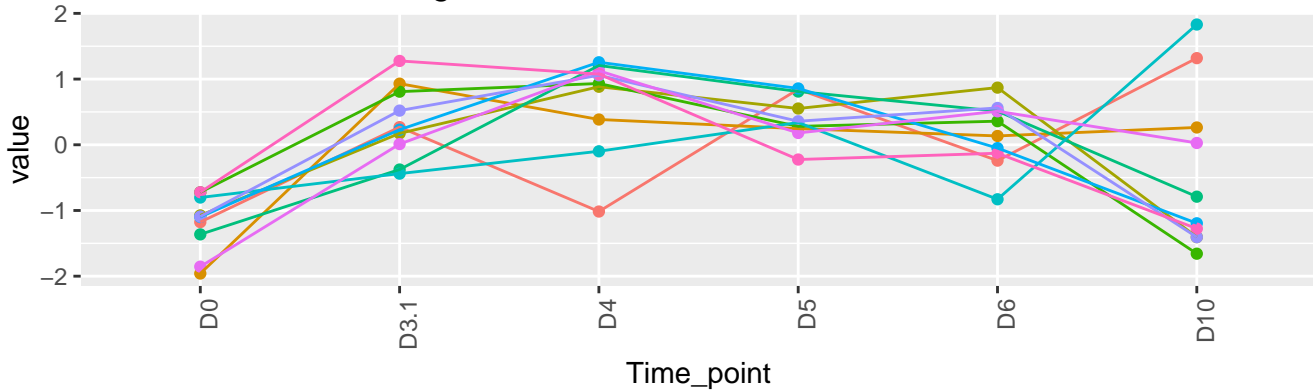
9 genes – KO-cluster-43-standardized



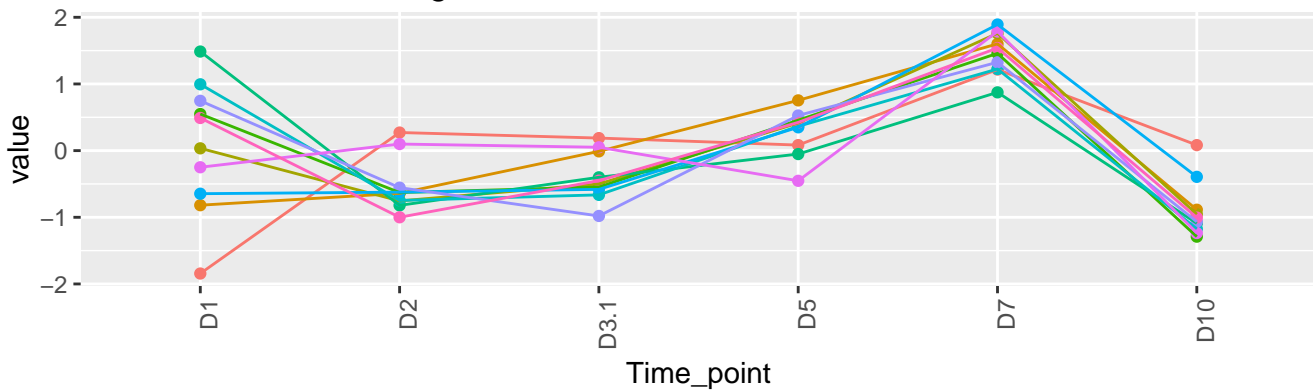
10 genes – WT-cluster-42-standardized



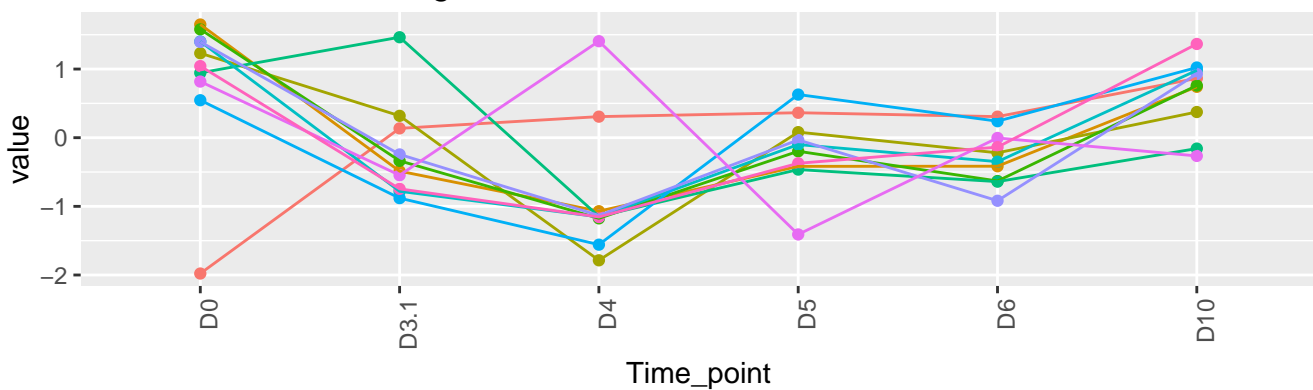
10 genes – KO-cluster-42-standardized



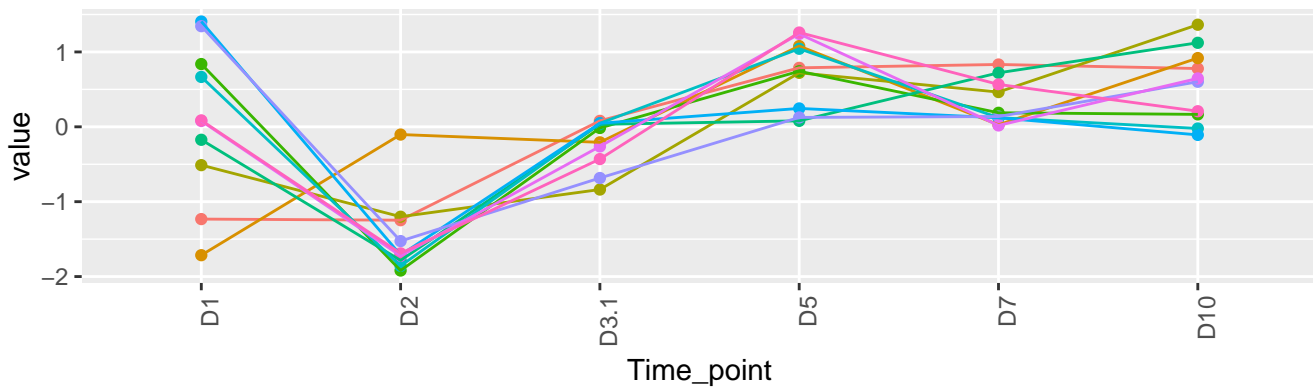
10 genes – WT-cluster-41-standardized



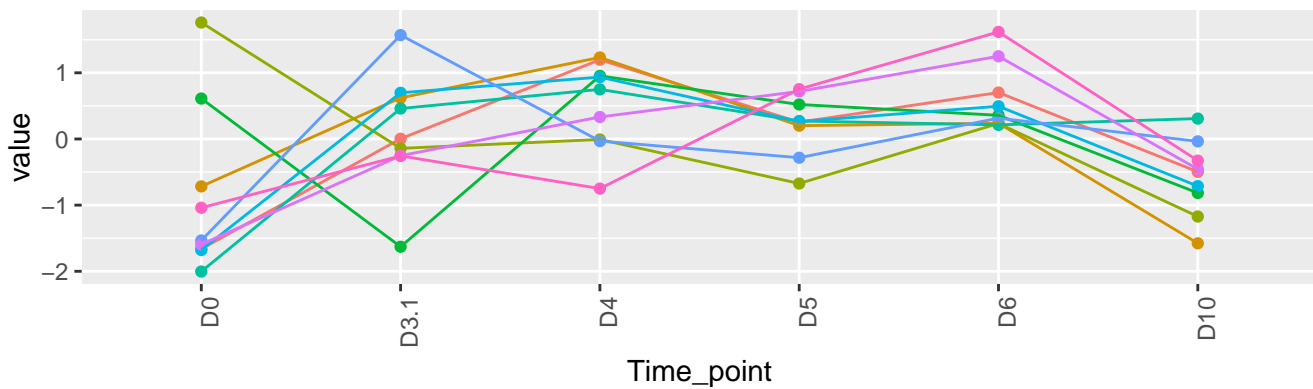
10 genes – KO-cluster-41-standardized



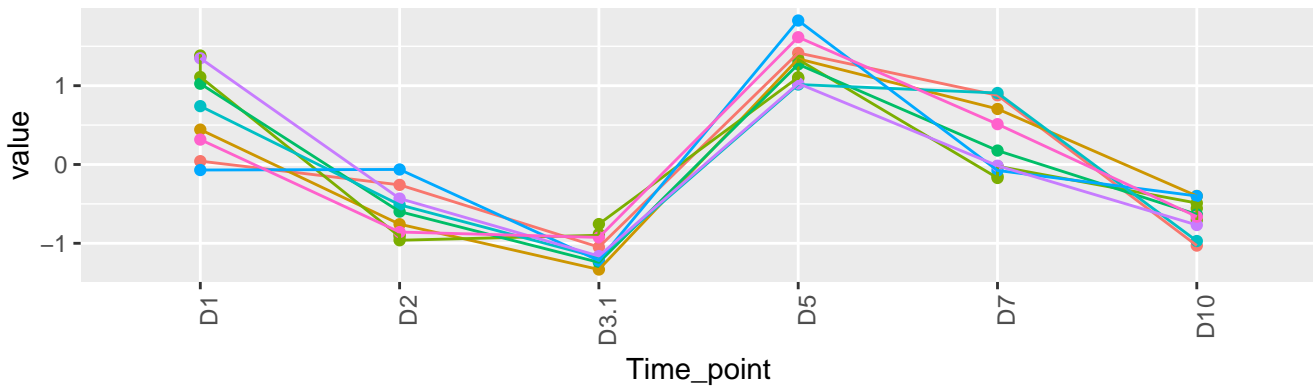
10 genes – WT-cluster-40-standardized



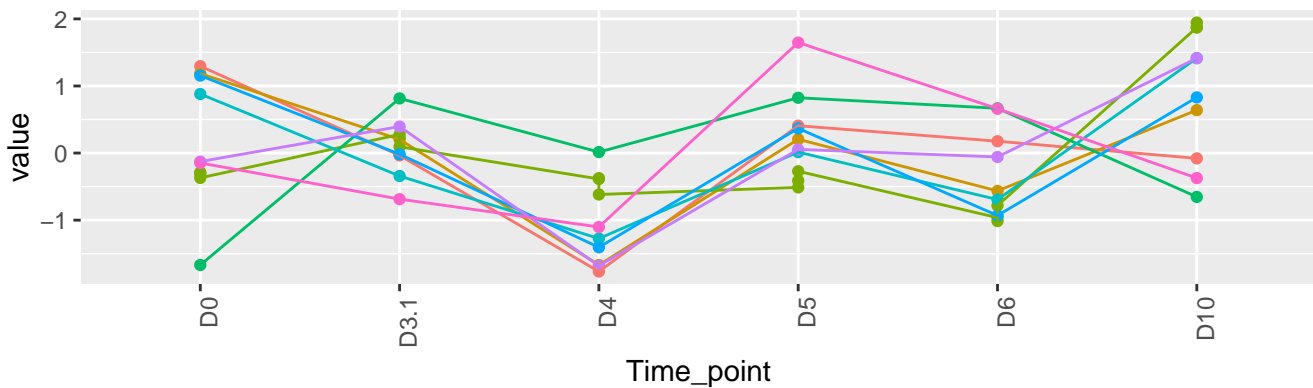
9 genes – KO-cluster-40-standardized



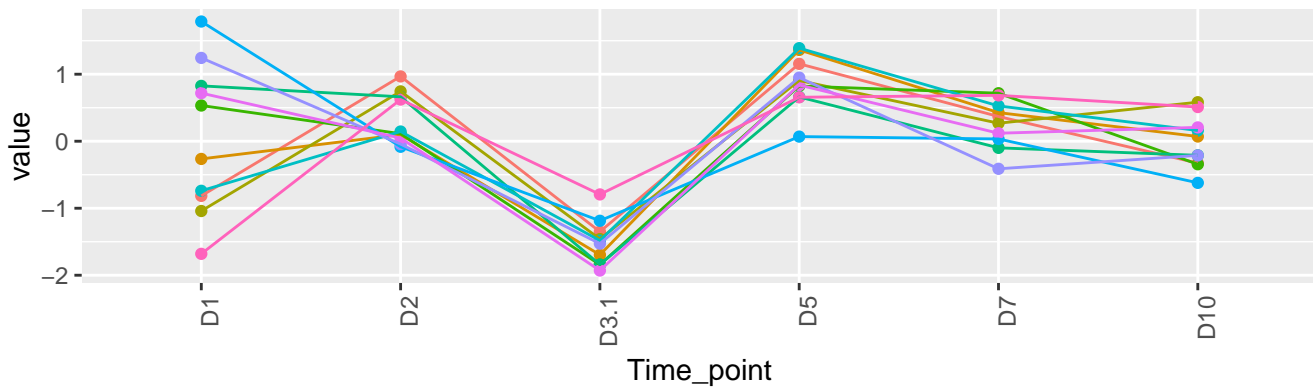
10 genes – WT-cluster-39-standardized



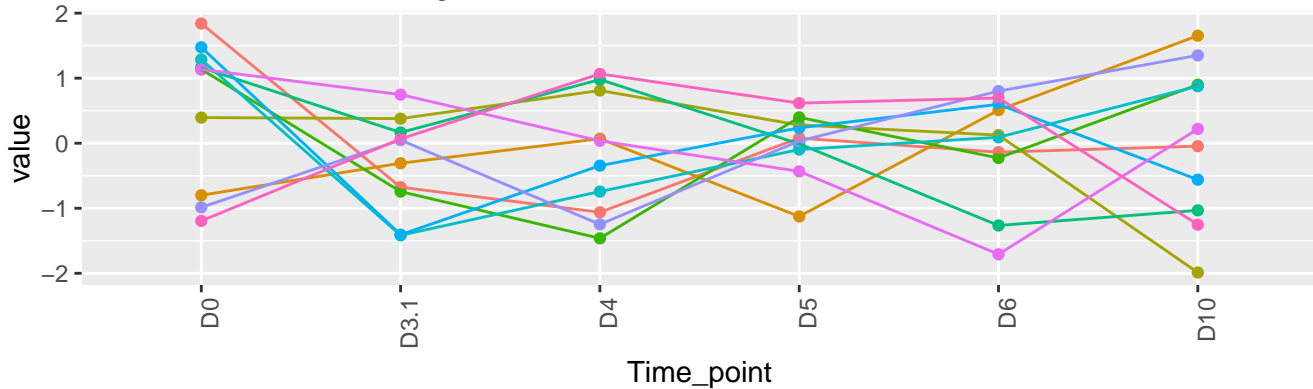
10 genes – KO-cluster-39-standardized



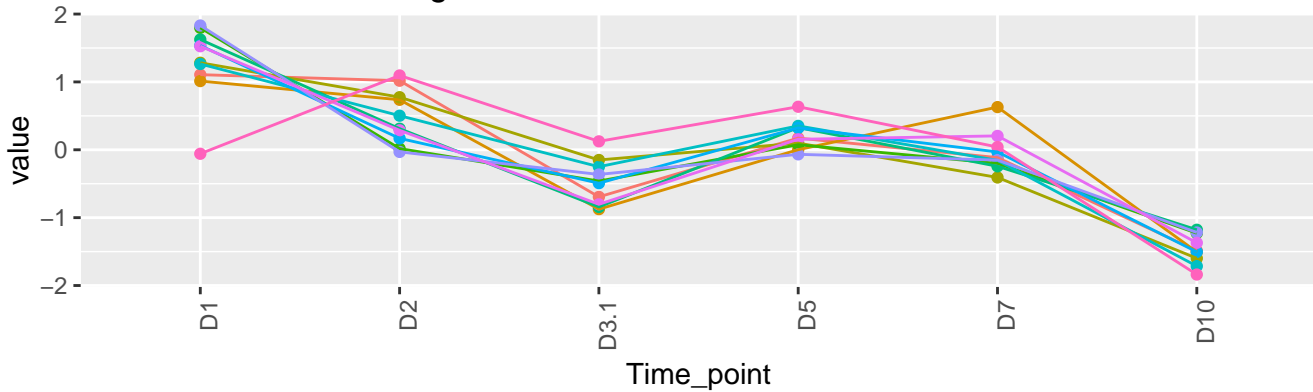
10 genes – WT-cluster-38-standardized



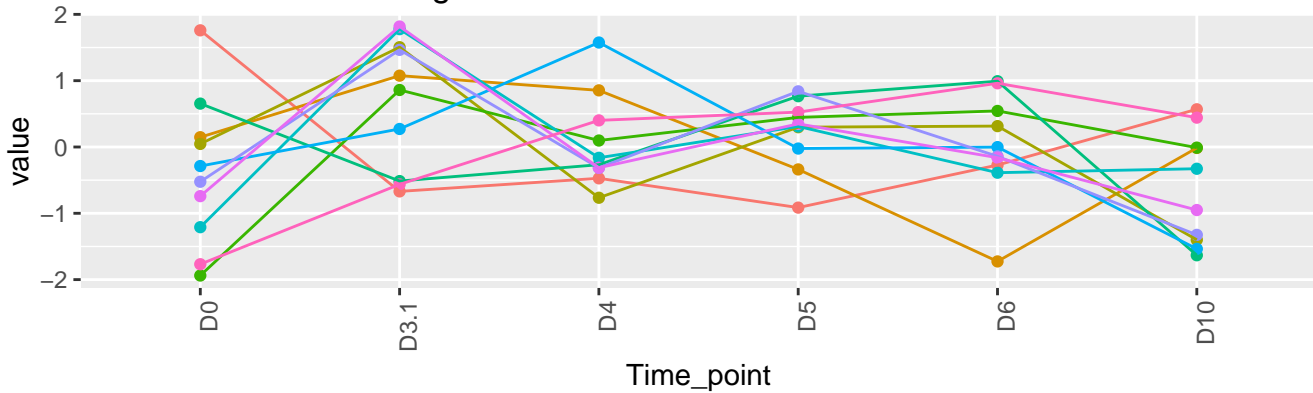
10 genes – KO-cluster-38-standardized



10 genes – WT-cluster-37-standardized

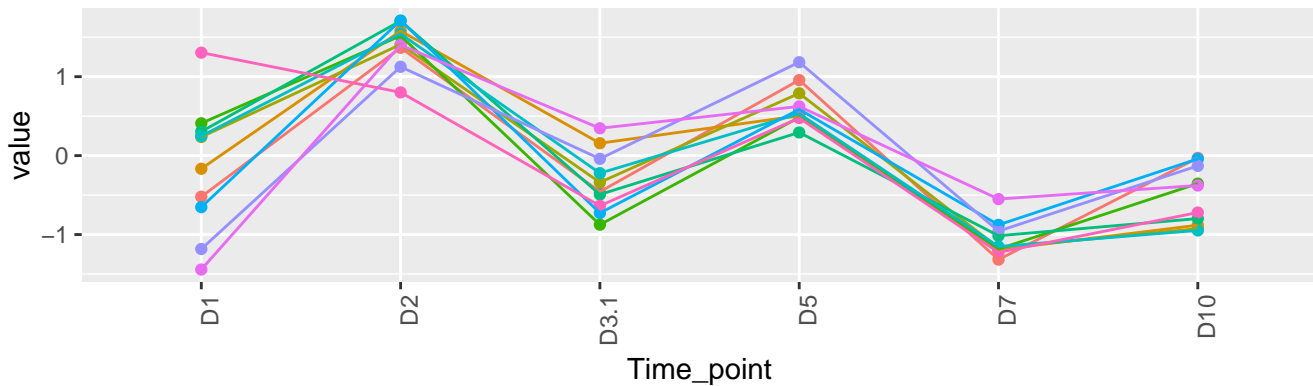


10 genes – KO-cluster-37-standardized

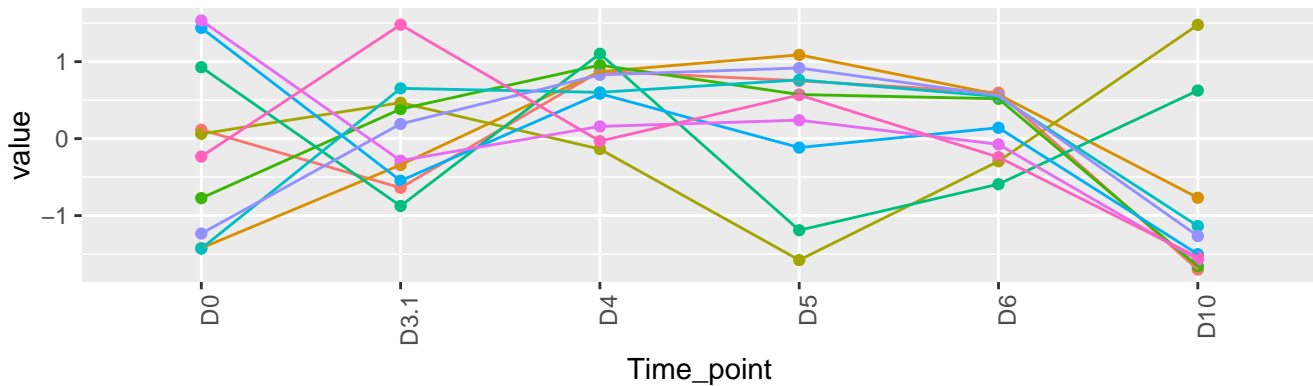




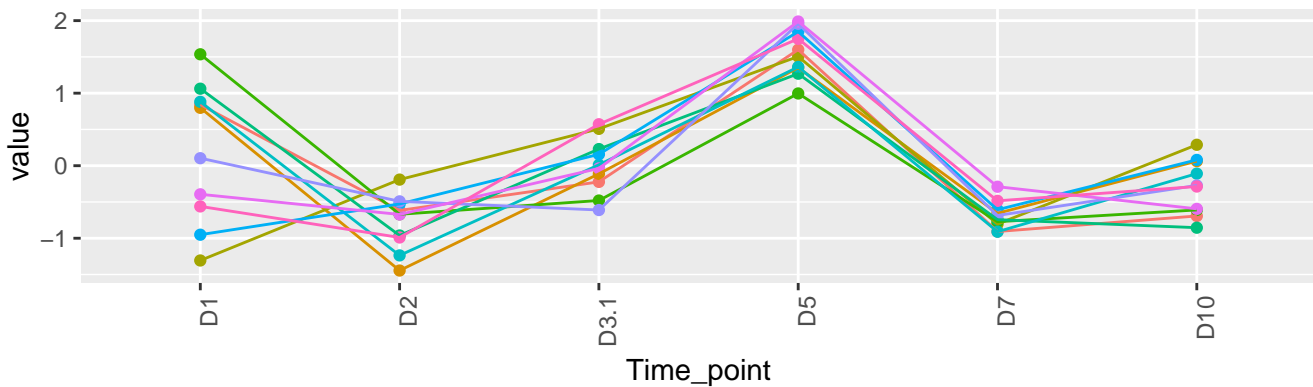
10 genes – WT-cluster-36-standardized



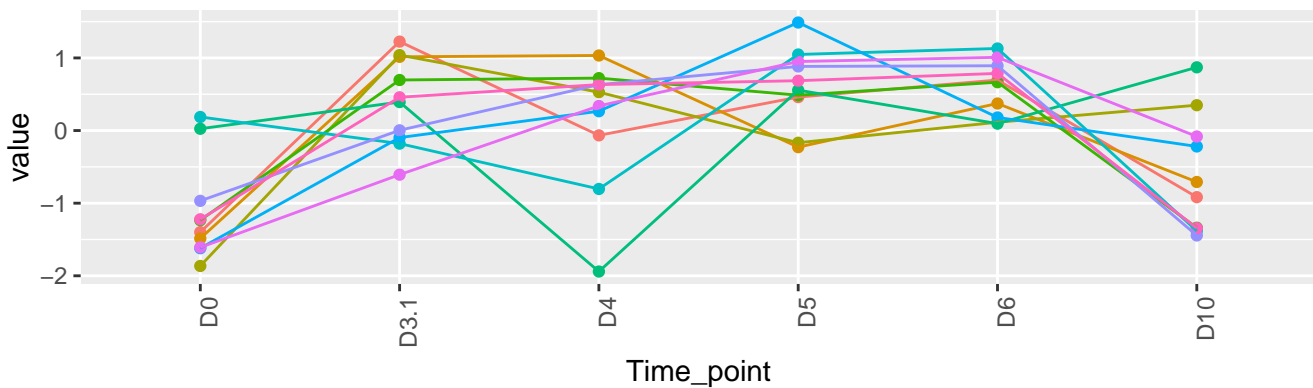
10 genes – KO-cluster-36-standardized



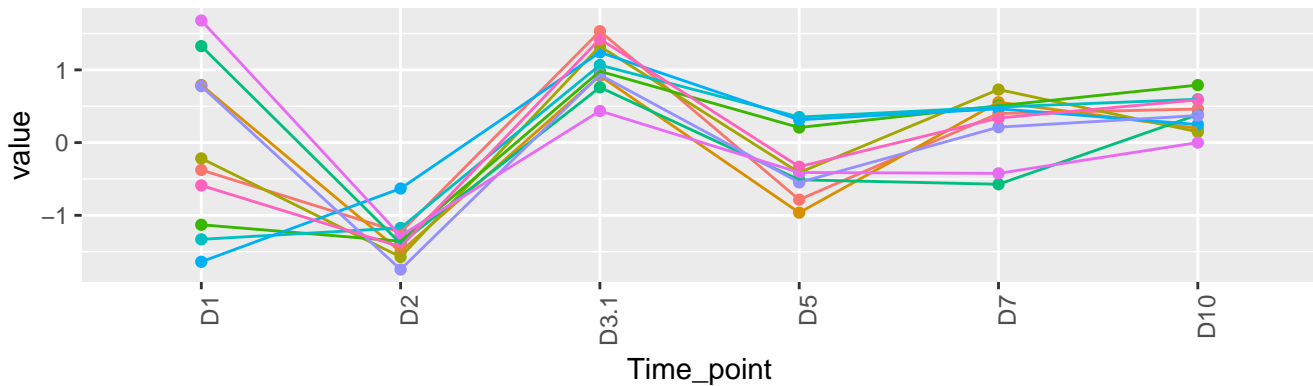
10 genes – WT-cluster-35-standardized



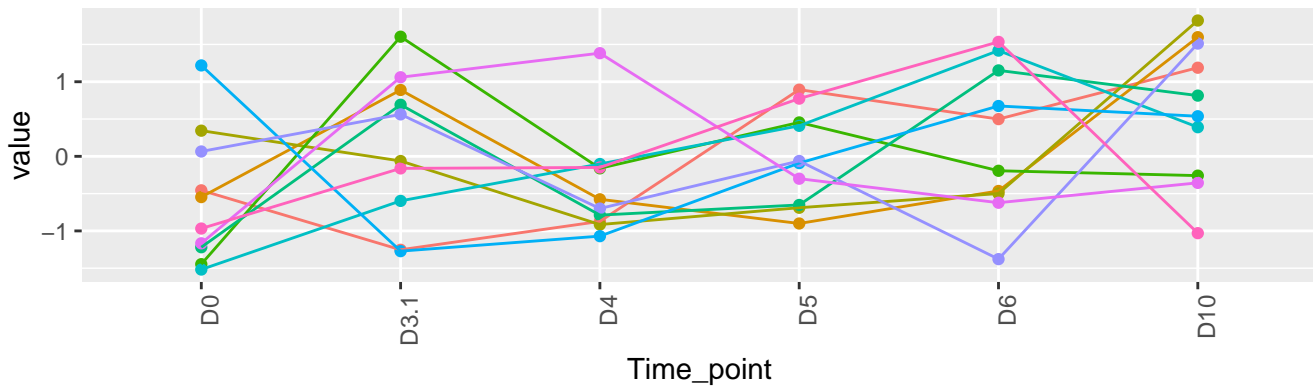
10 genes – KO-cluster-35-standardized



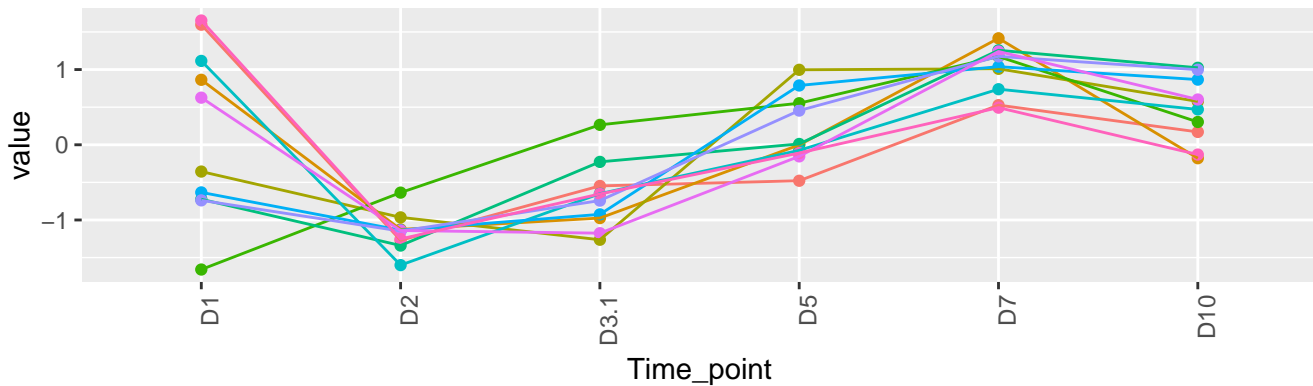
10 genes – WT-cluster-34-standardized



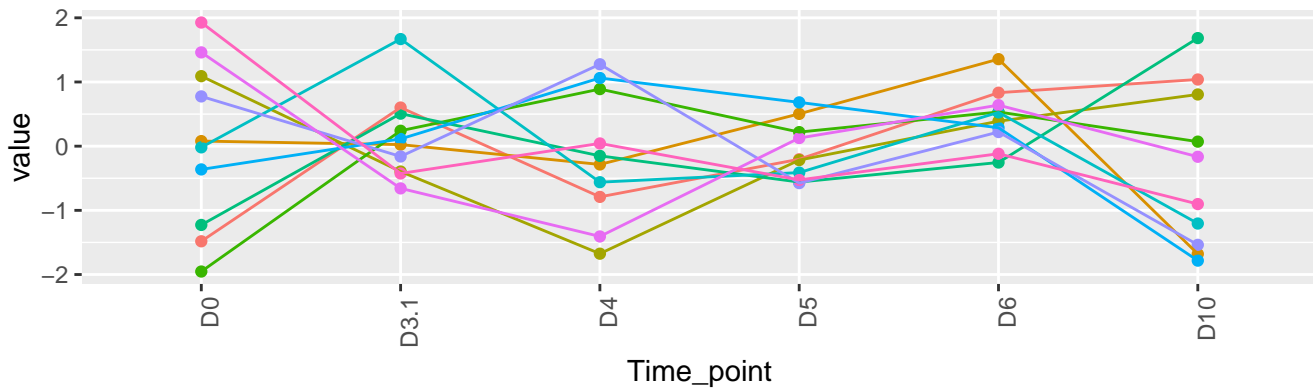
10 genes – KO-cluster-34-standardized



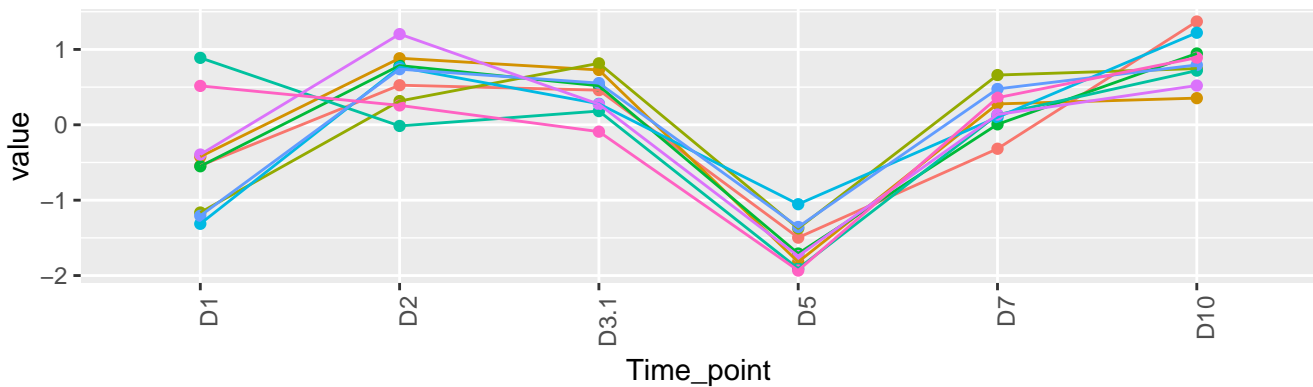
10 genes – WT-cluster-33-standardized



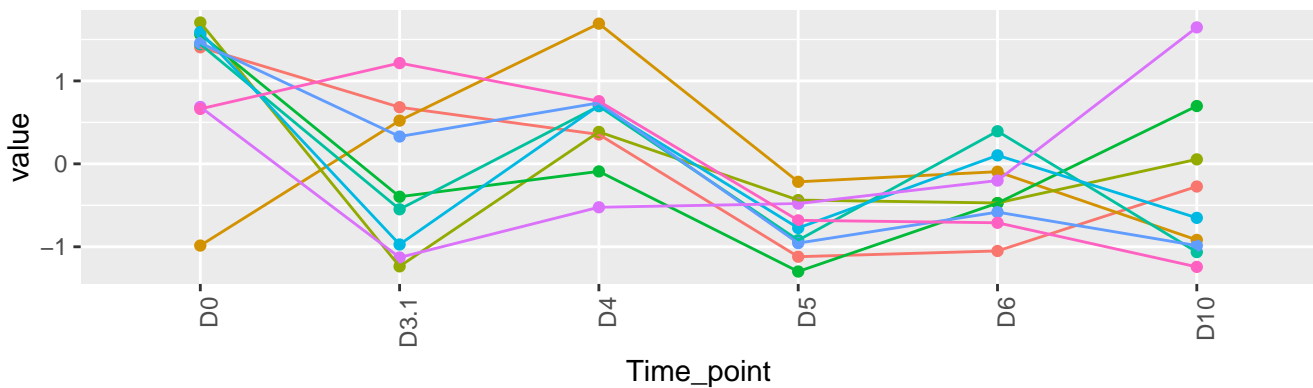
10 genes – KO-cluster-33-standardized



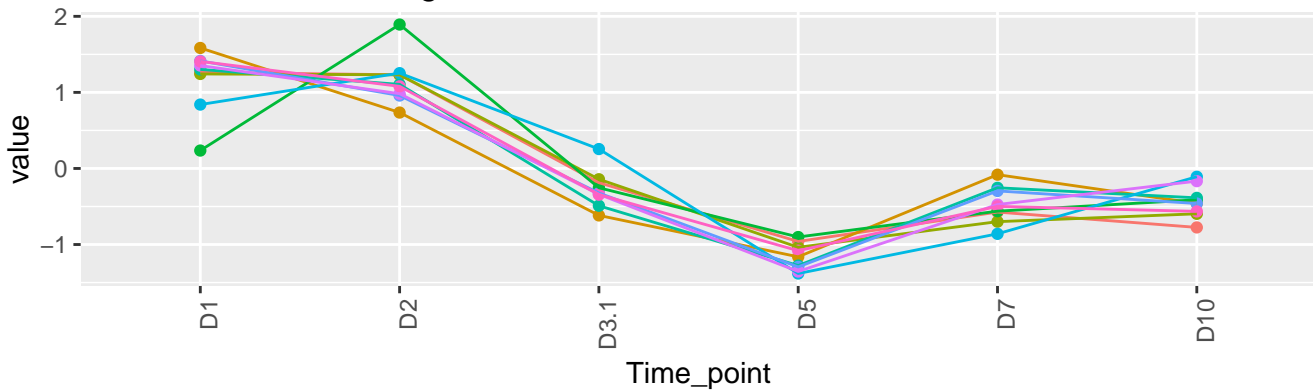
9 genes – WT-cluster-32-standardized



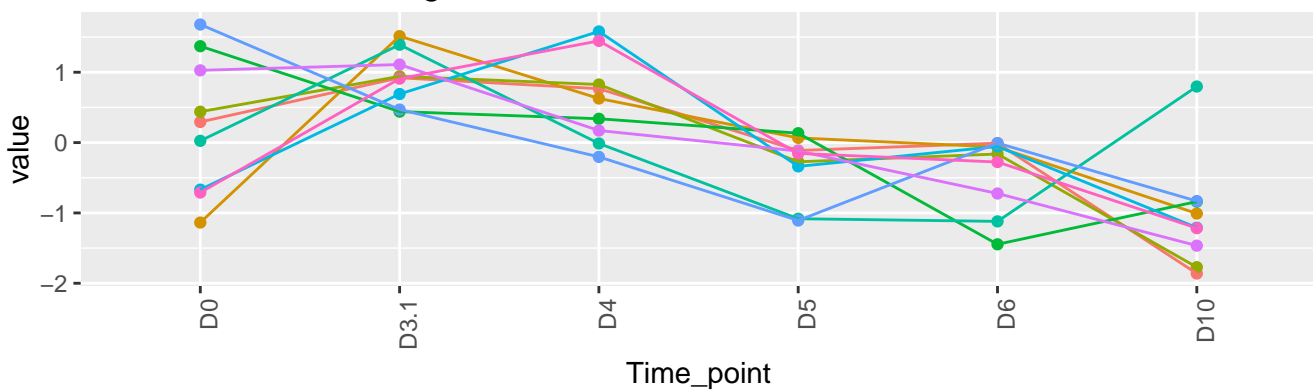
9 genes – KO-cluster-32-standardized



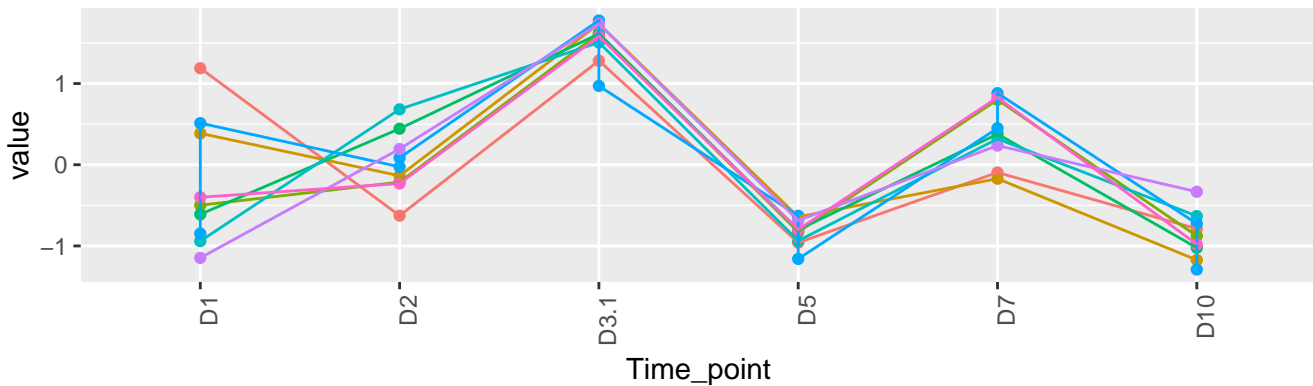
9 genes – WT-cluster-31-standardized



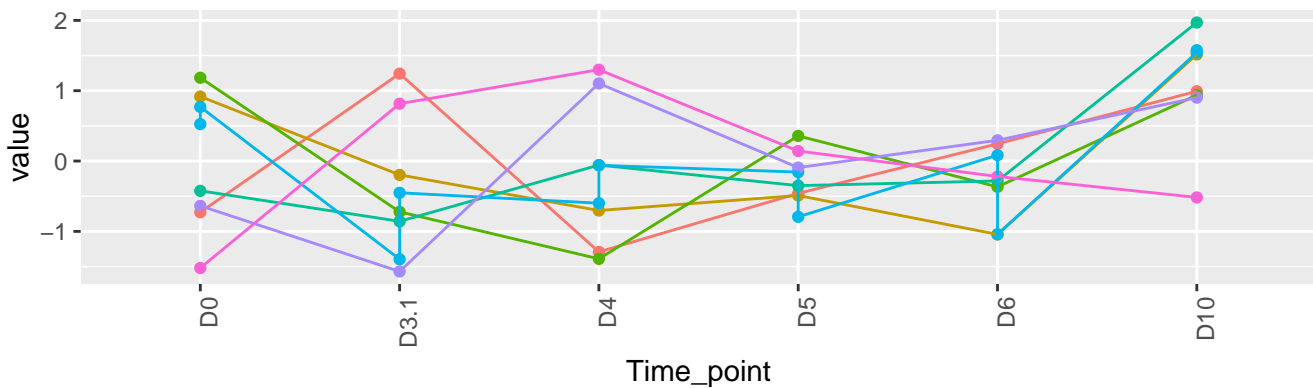
9 genes – KO-cluster-31-standardized



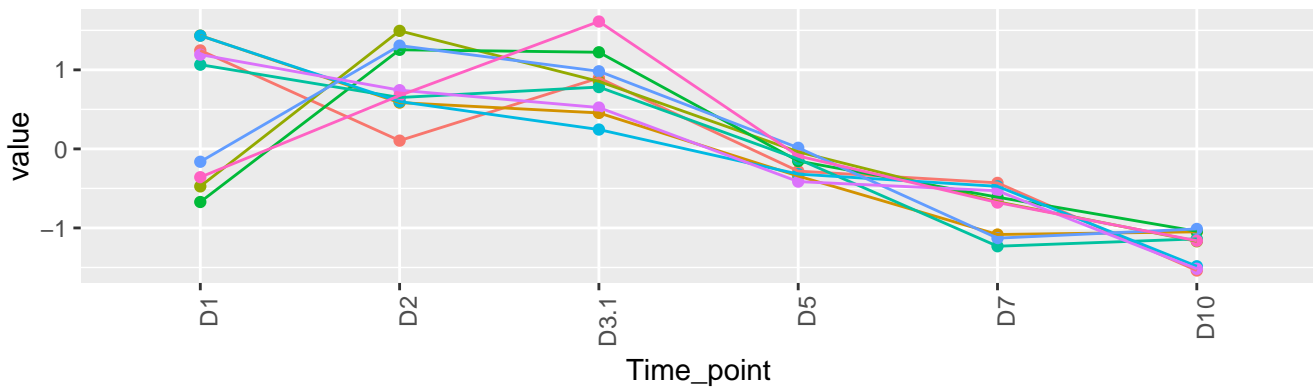
9 genes – WT-cluster-30-standardized



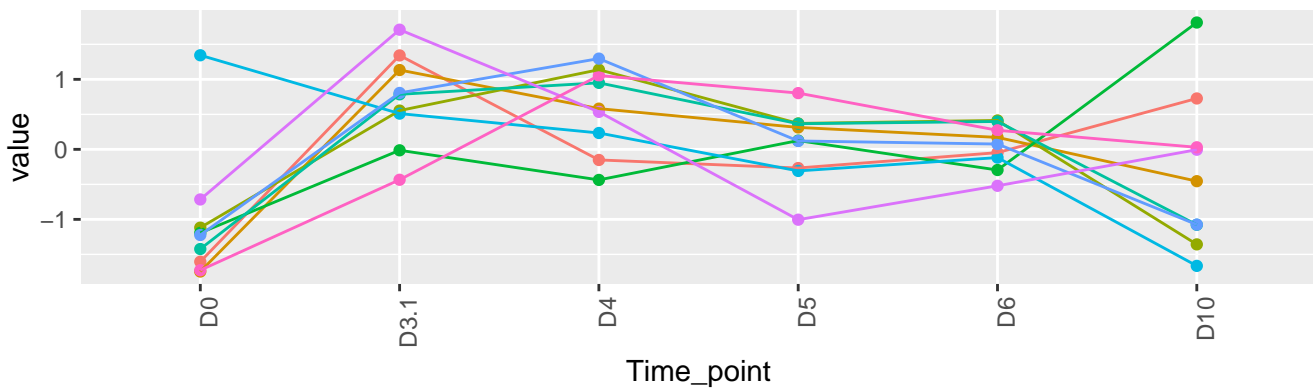
8 genes – KO-cluster-30-standardized



9 genes – WT-cluster-29-standardized

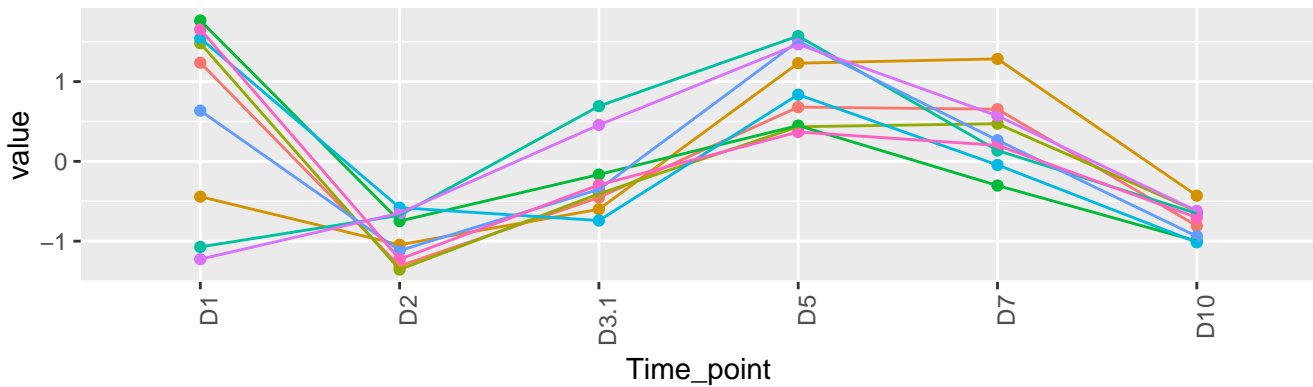


9 genes – KO-cluster-29-standardized

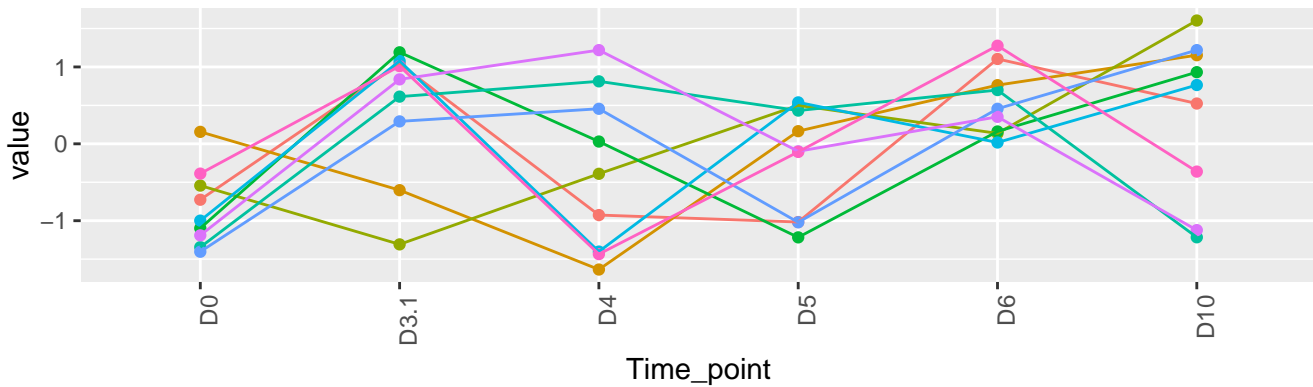




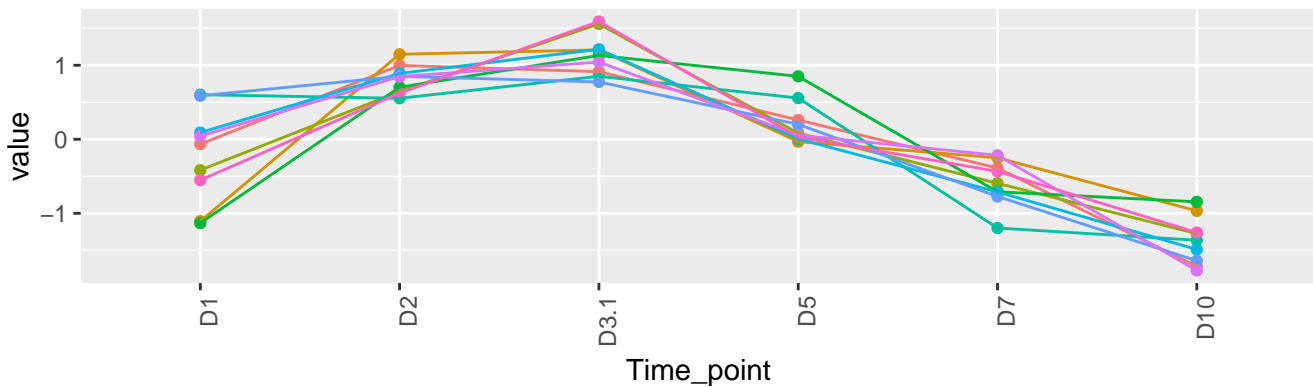
9 genes – WT-cluster-28-standardized



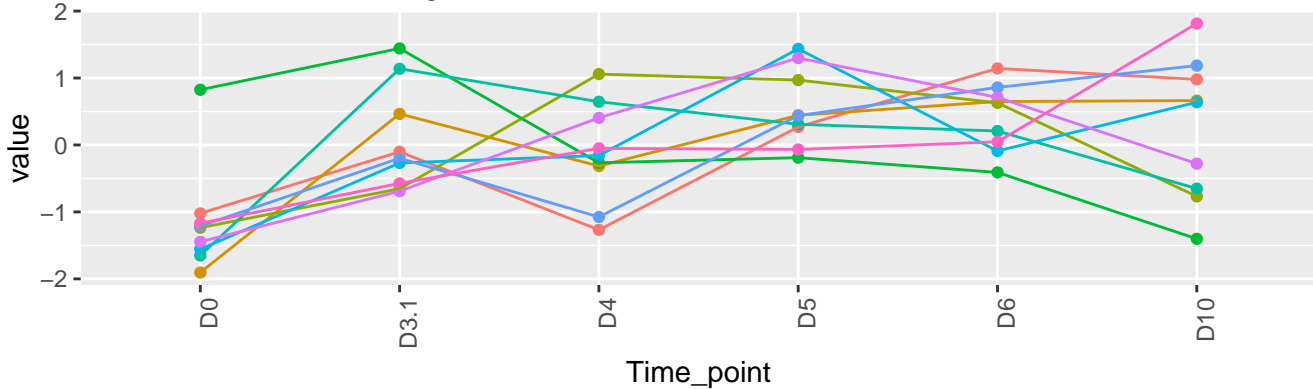
9 genes – KO-cluster-28-standardized



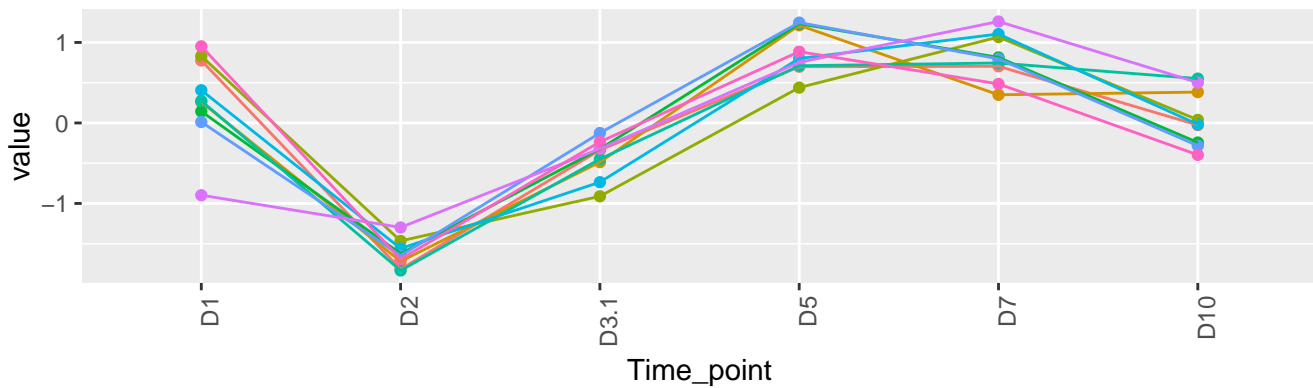
9 genes – WT-cluster-27-standardized



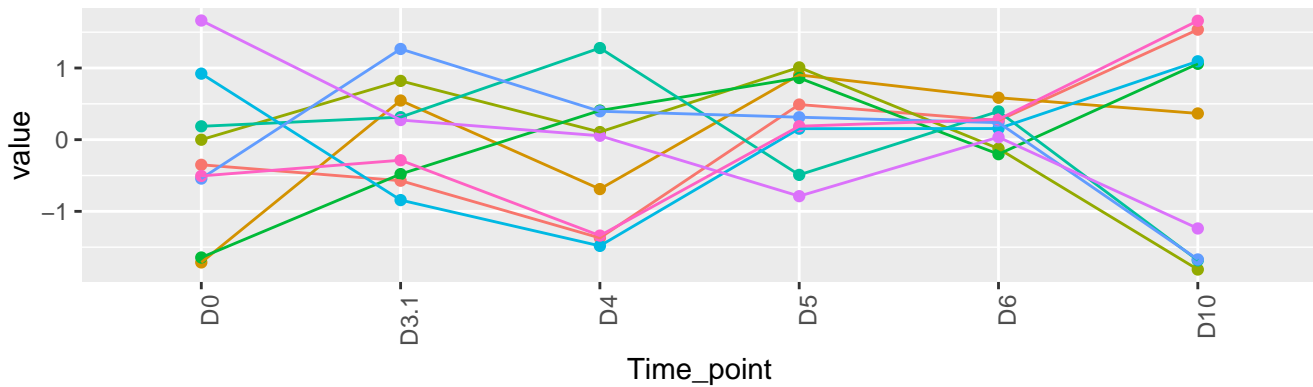
9 genes – KO-cluster-27-standardized



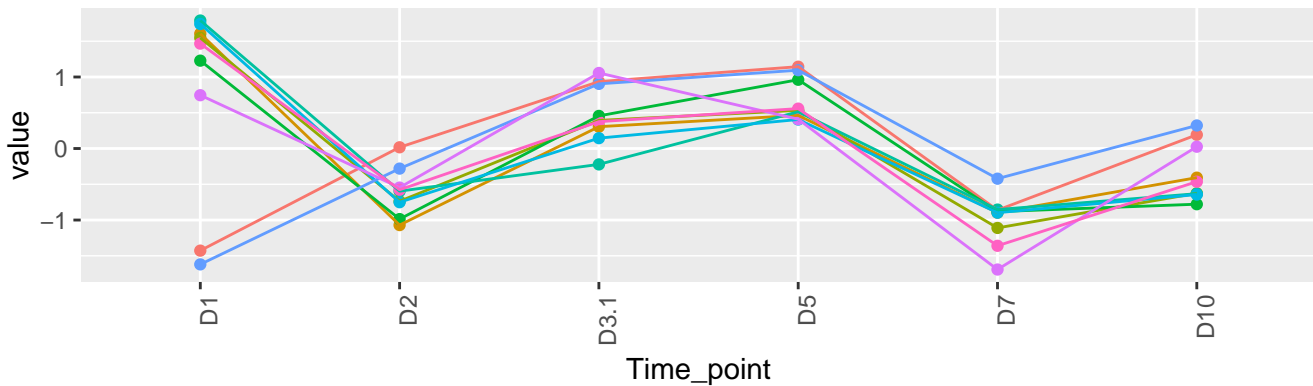
9 genes – WT-cluster-26-standardized



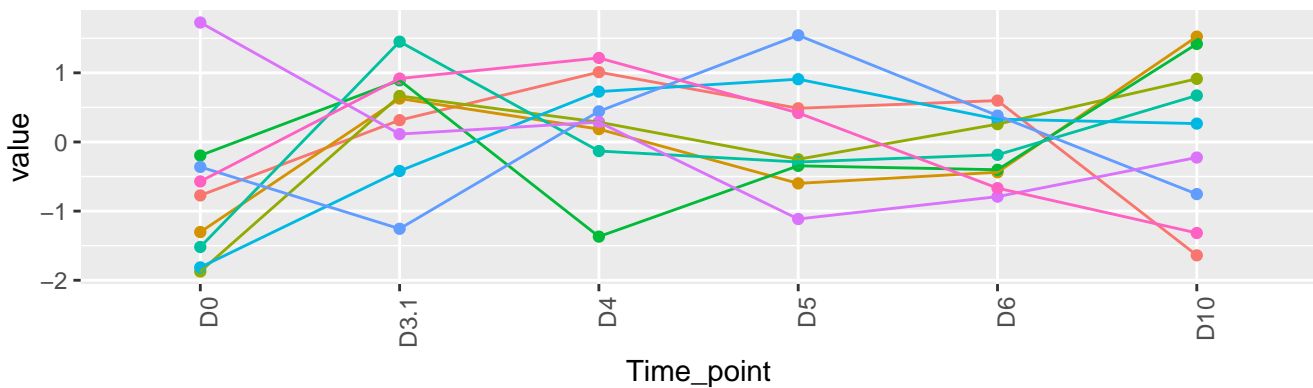
9 genes – KO-cluster-26-standardized



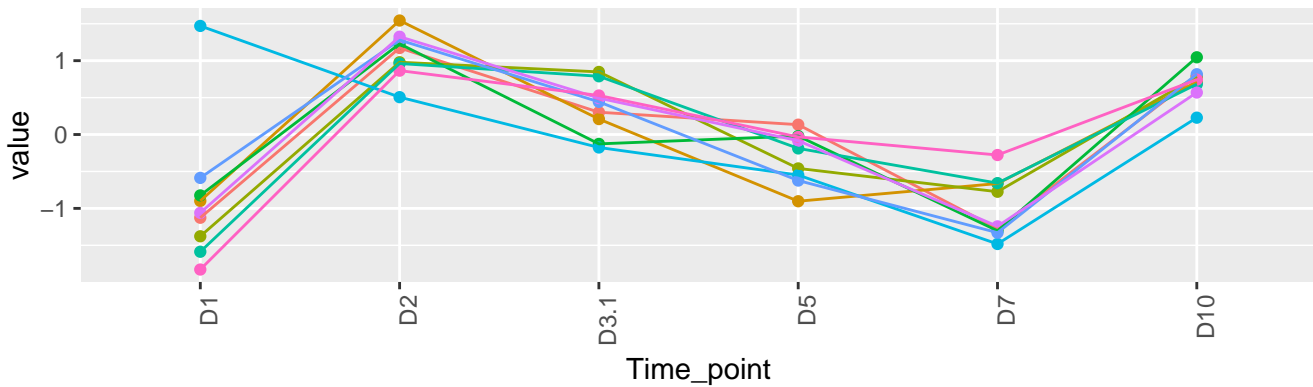
9 genes – WT-cluster-25-standardized



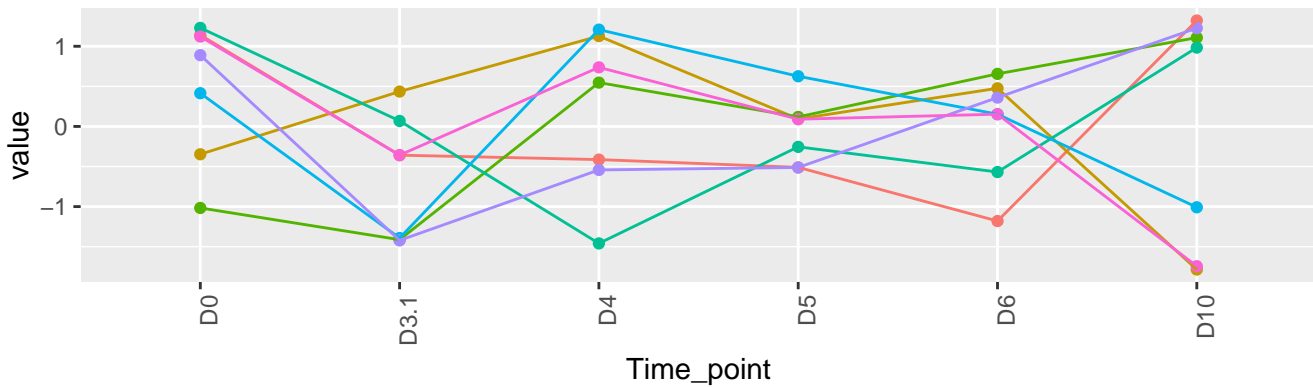
9 genes – KO-cluster-25-standardized



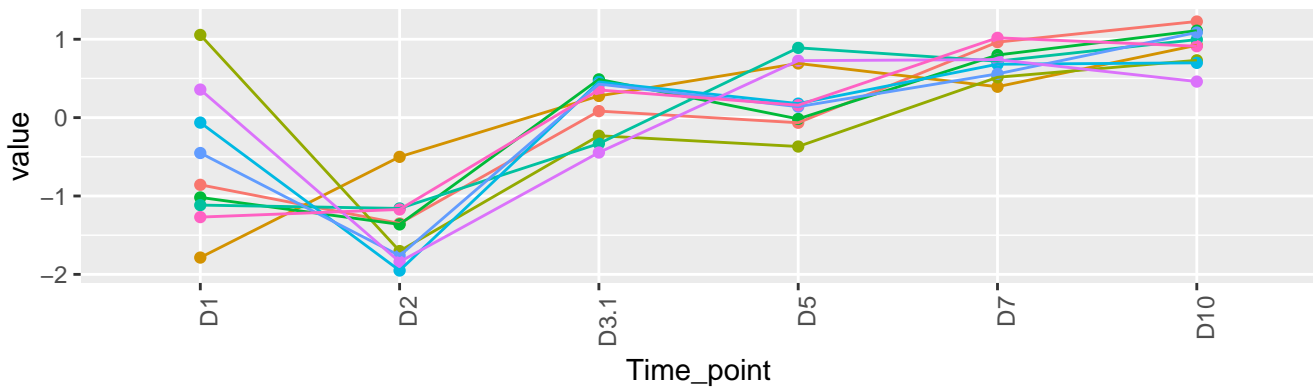
9 genes – WT-cluster-24-standardized



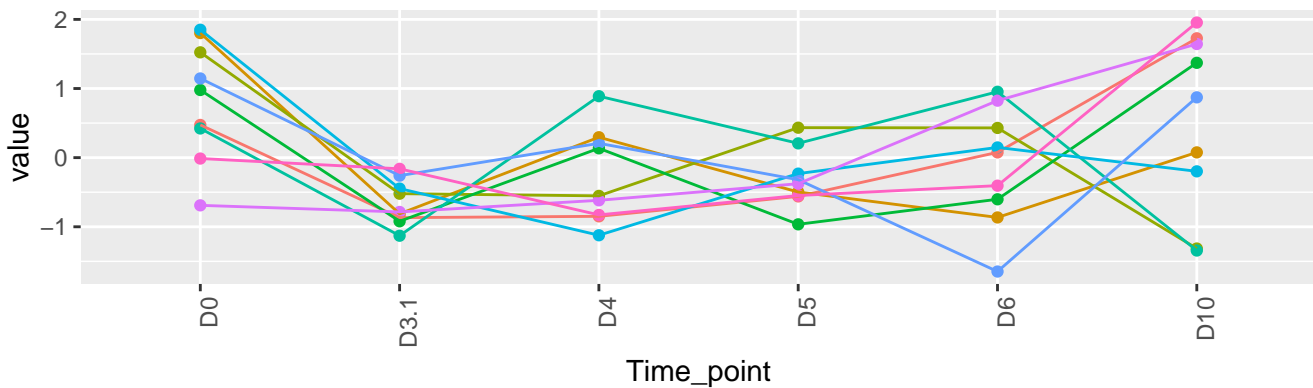
7 genes – KO-cluster-24-standardized



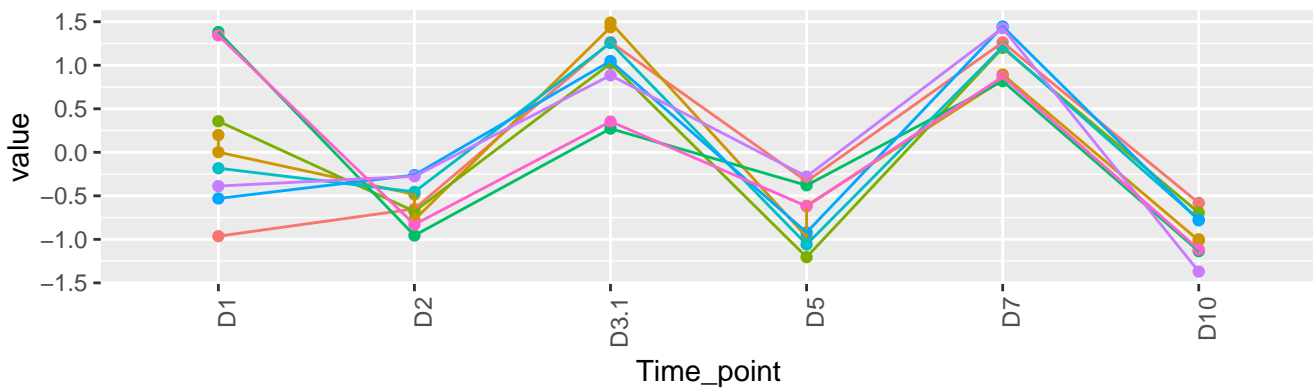
9 genes – WT-cluster-23-standardized



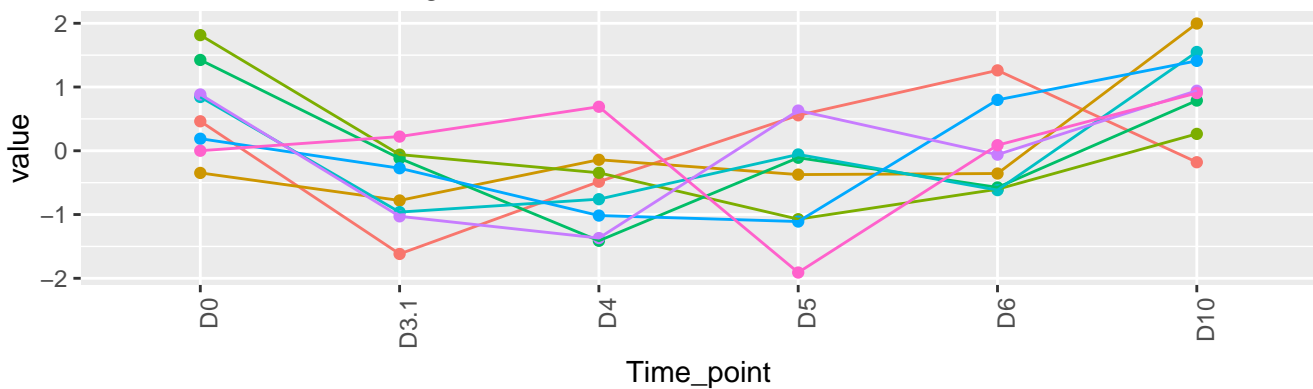
9 genes – KO-cluster-23-standardized



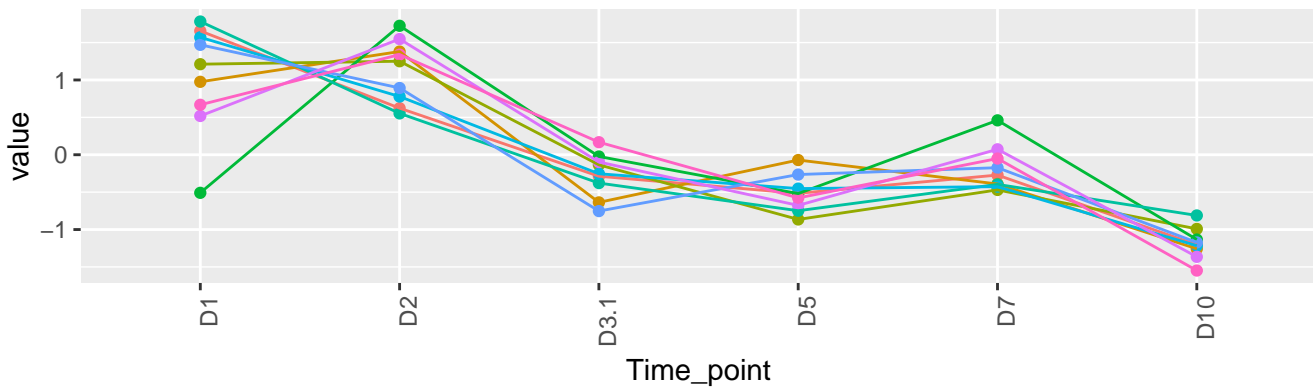
9 genes – WT-cluster-22-standardized



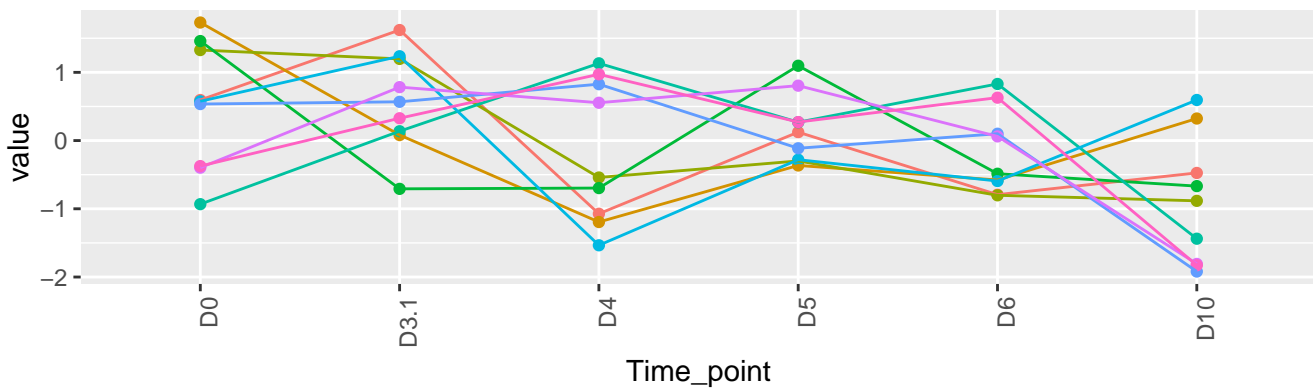
8 genes – KO-cluster-22-standardized



9 genes – WT-cluster-21-standardized

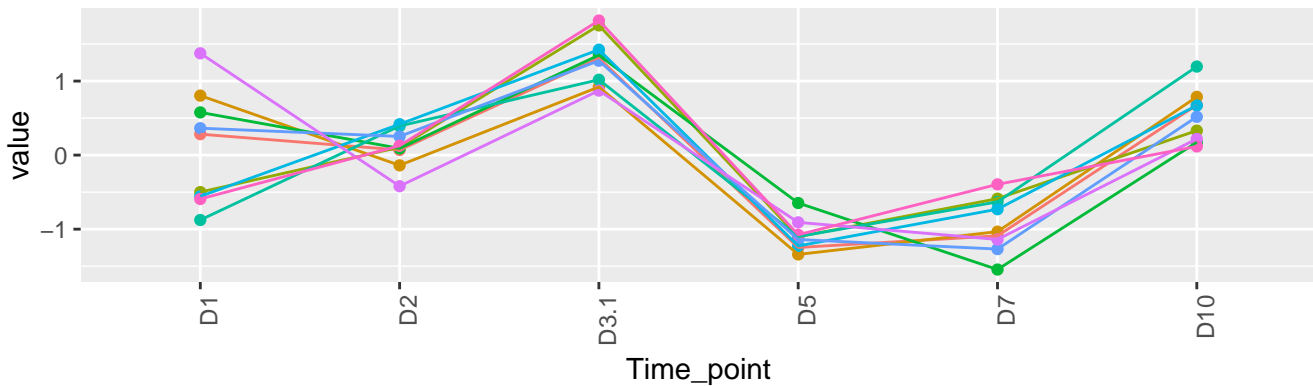


9 genes – KO-cluster-21-standardized

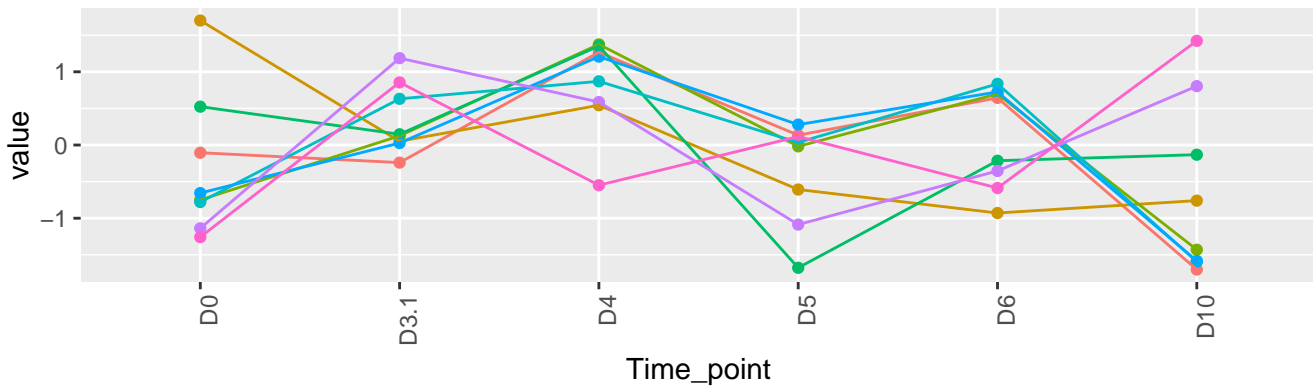




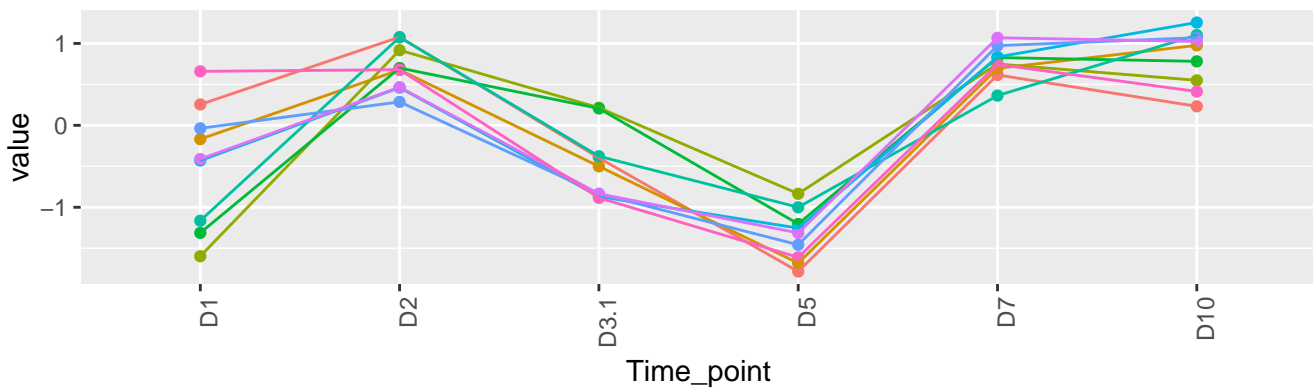
9 genes – WT-cluster-20-standardized



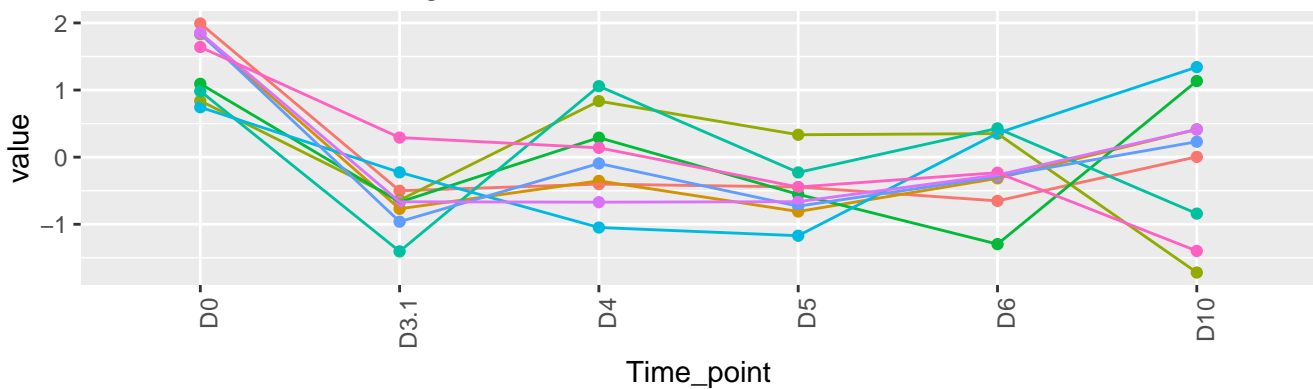
8 genes – KO-cluster-20-standardized



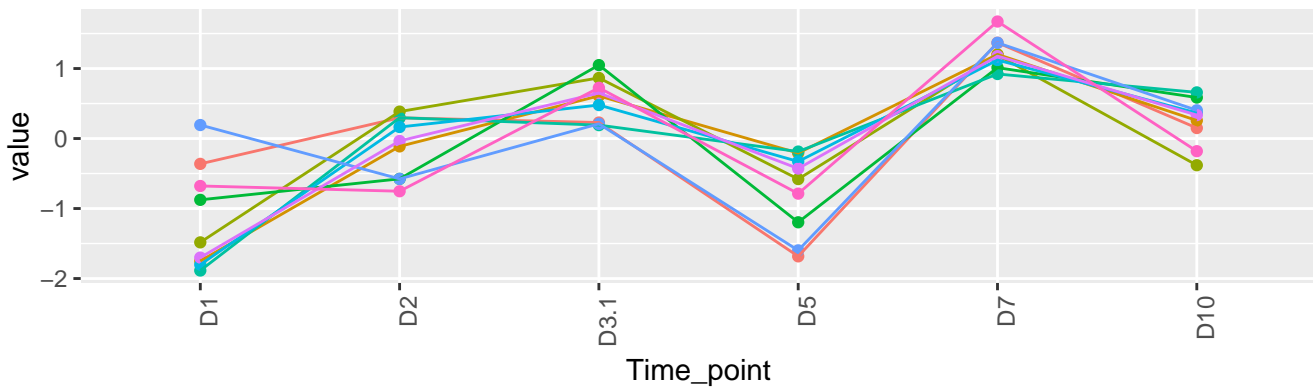
9 genes – WT-cluster-19-standardized



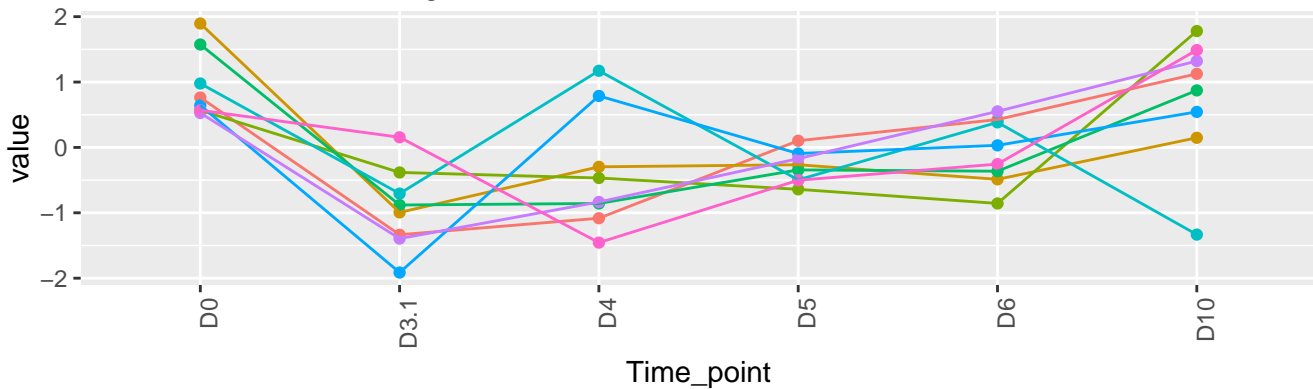
9 genes – KO-cluster-19-standardized



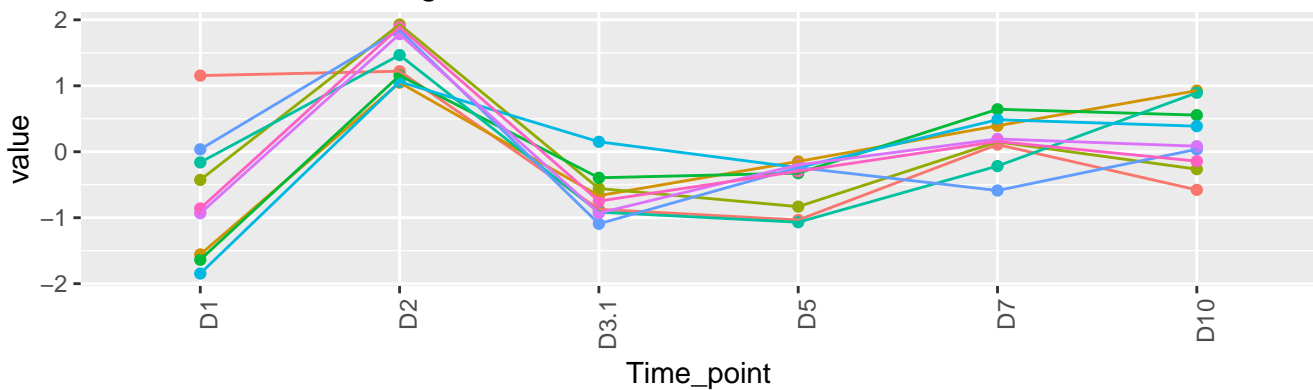
9 genes – WT-cluster-18-standardized



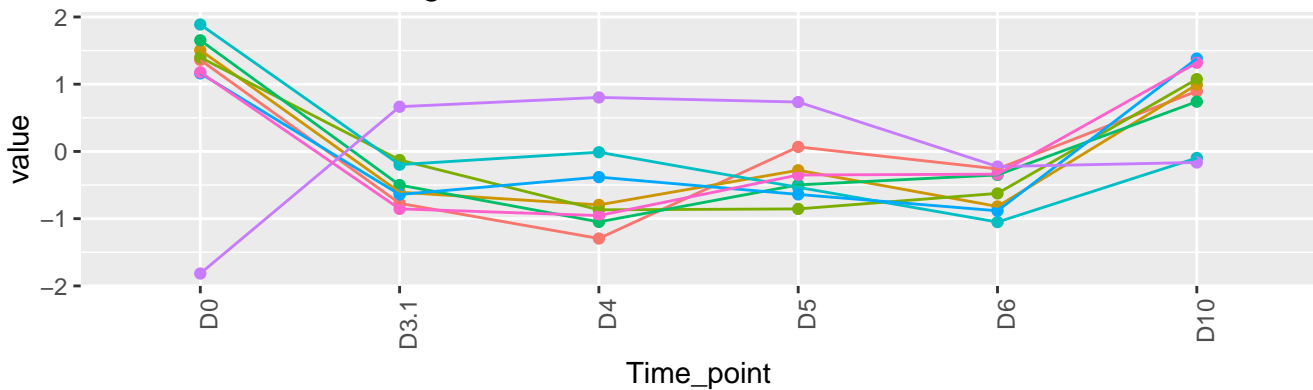
8 genes – KO-cluster-18-standardized



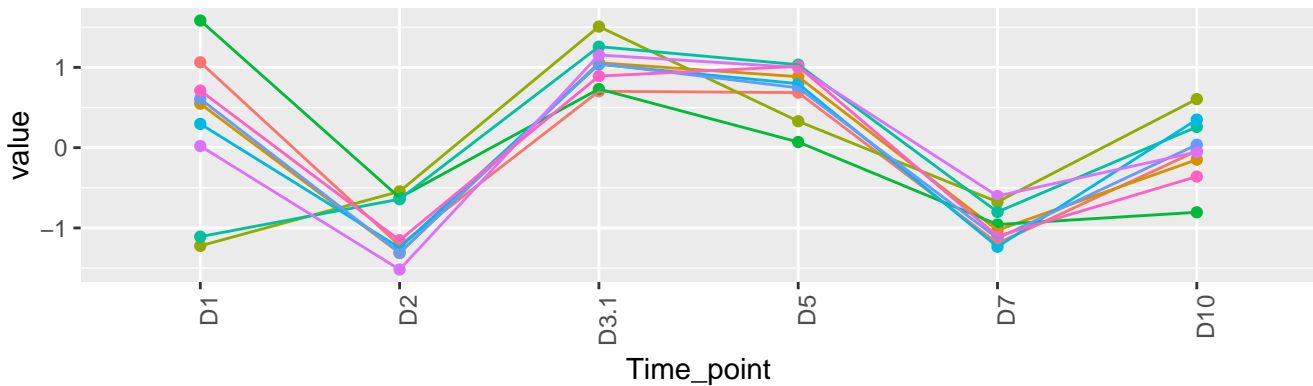
9 genes – WT-cluster-17-standardized



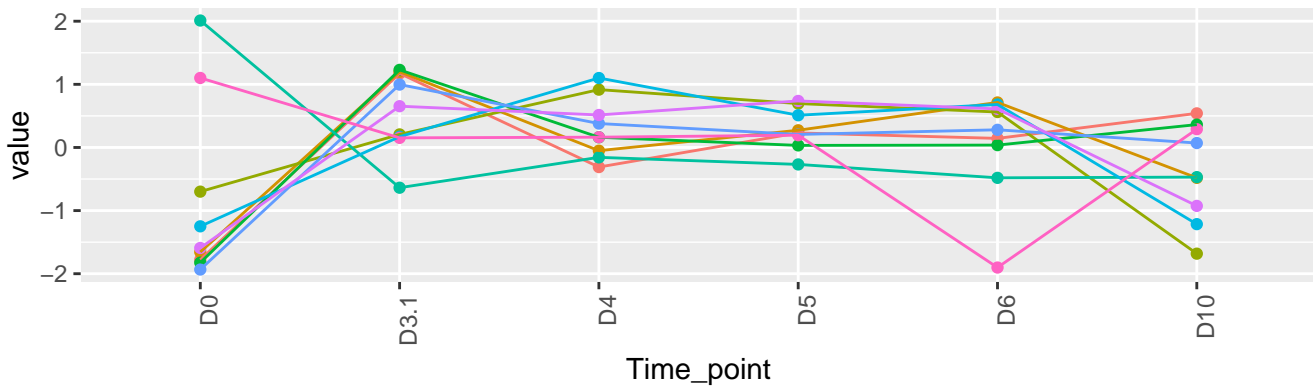
8 genes – KO-cluster-17-standardized



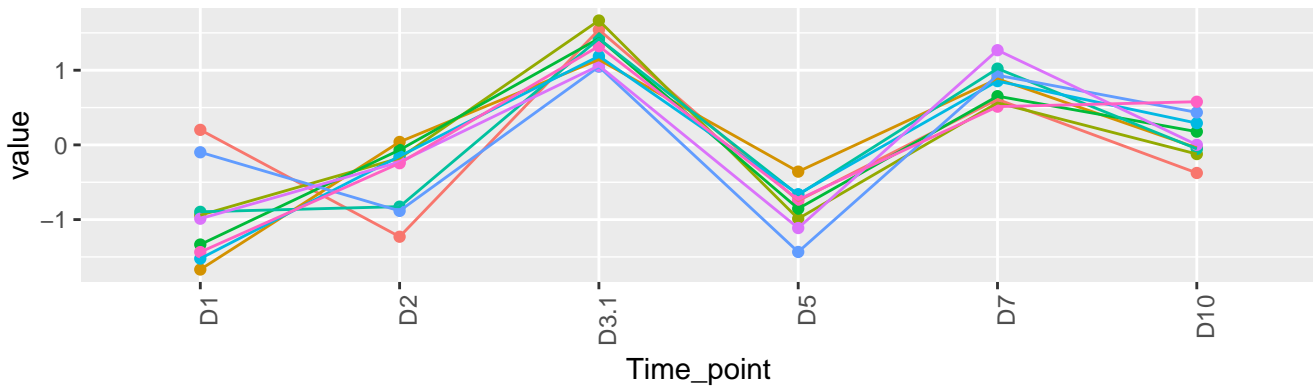
9 genes – WT–cluster–16–standardized



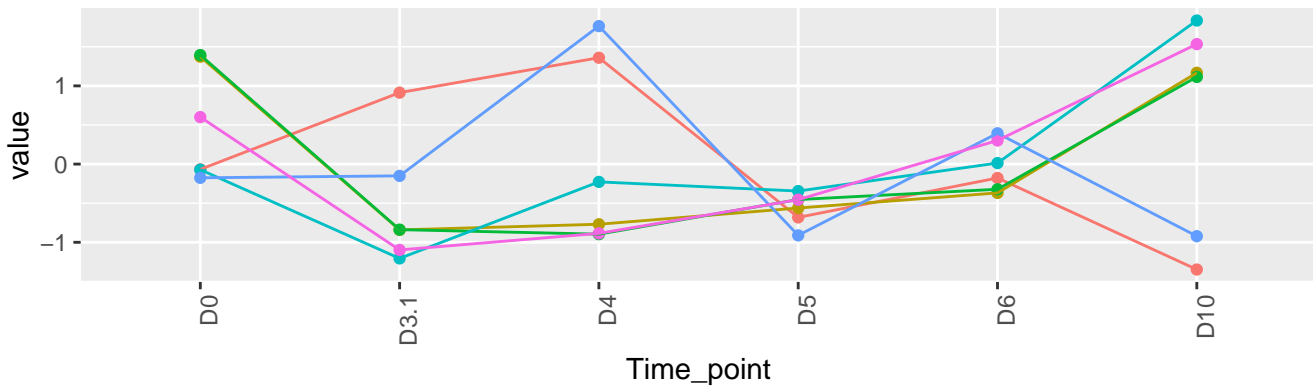
9 genes – KO–cluster–16–standardized



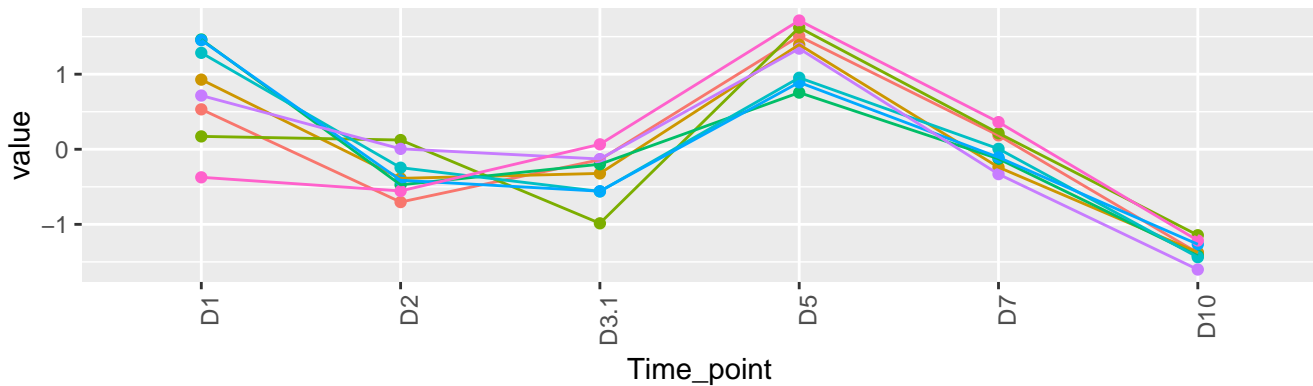
9 genes – WT-cluster-15-standardized



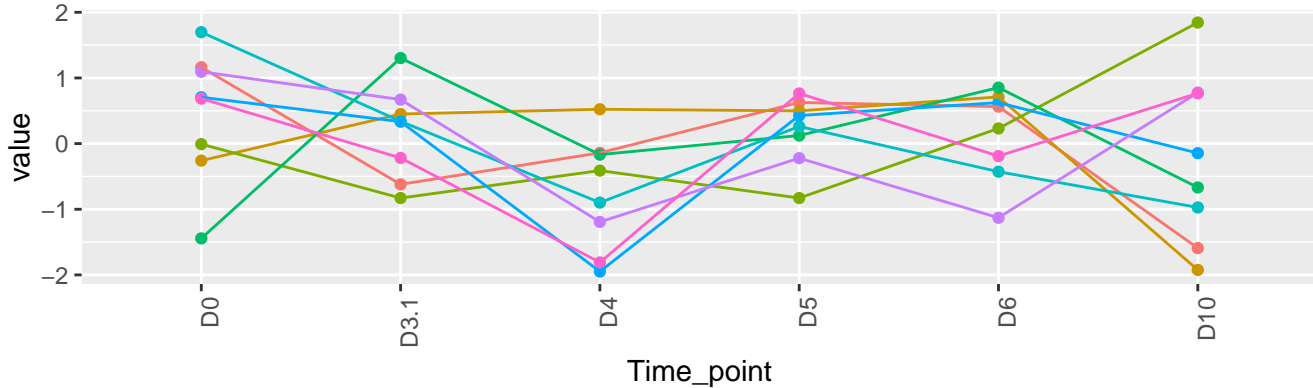
6 genes – KO-cluster-15-standardized



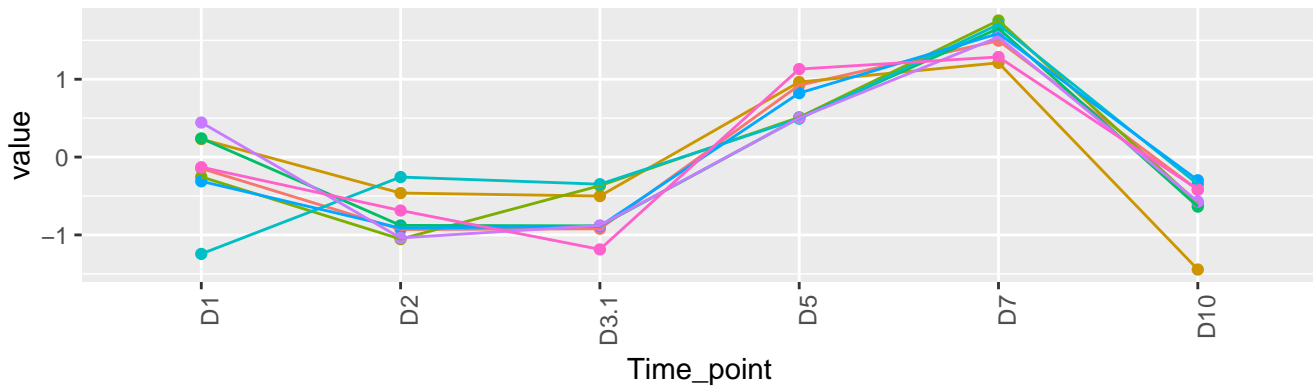
8 genes – WT-cluster-14-standardized



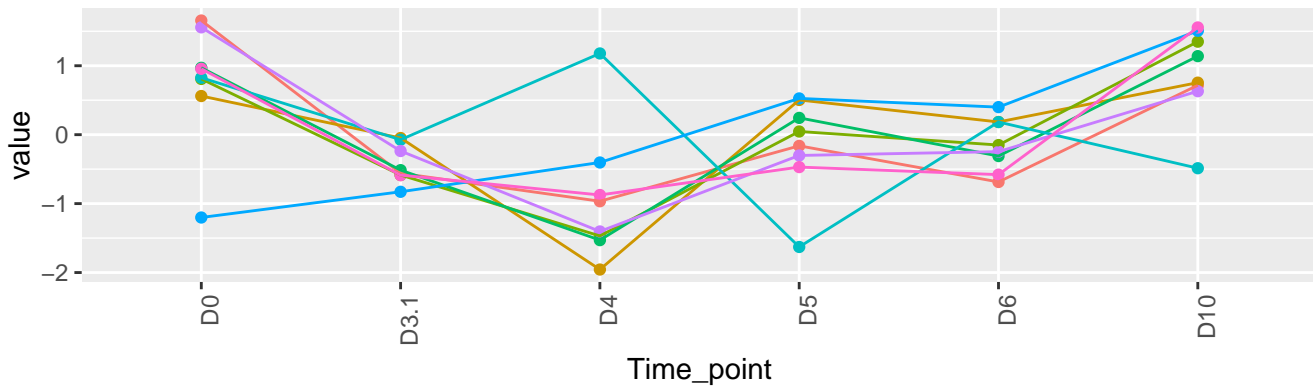
8 genes – KO-cluster-14-standardized



8 genes – WT-cluster-13-standardized

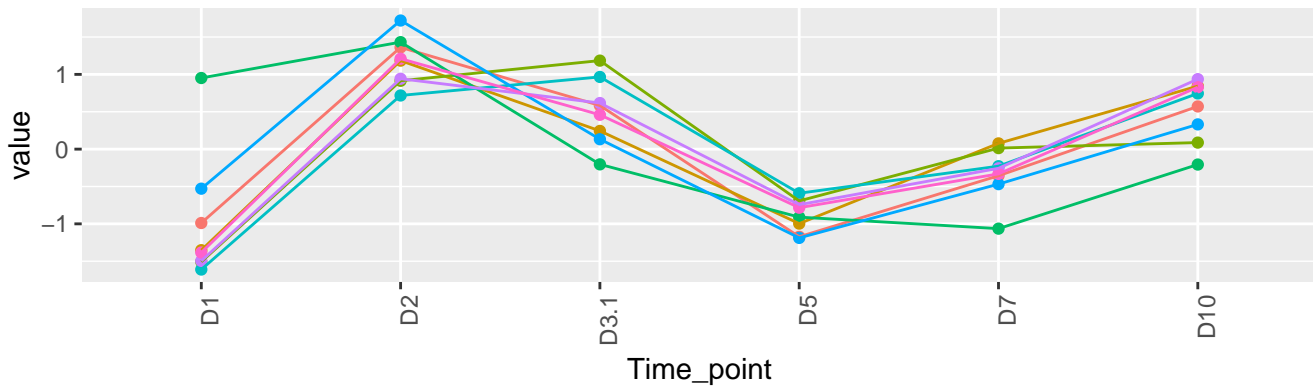


8 genes – KO-cluster-13-standardized

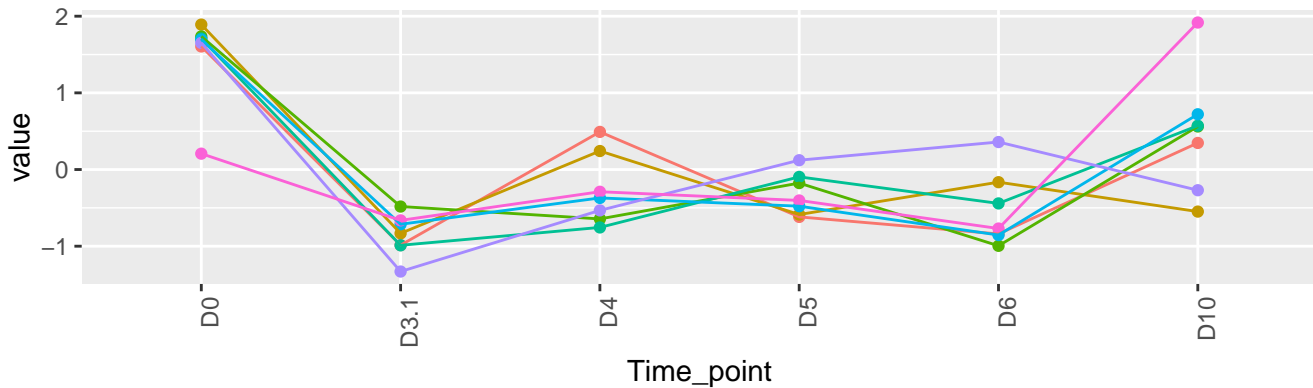




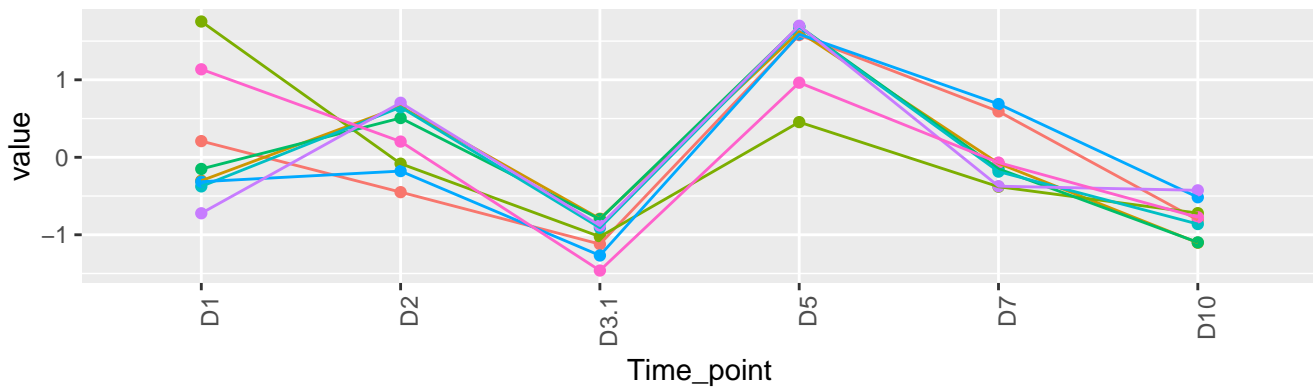
8 genes – WT-cluster-12-standardized



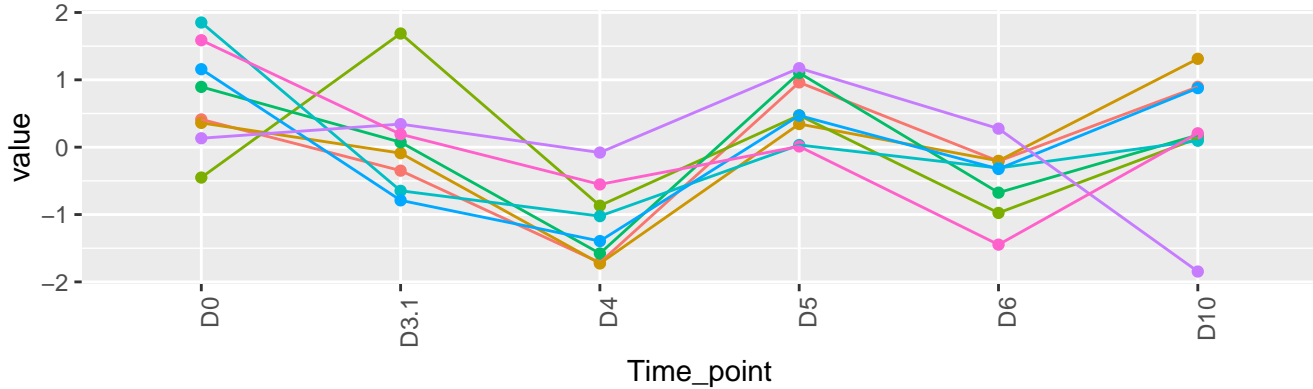
7 genes – KO-cluster-12-standardized



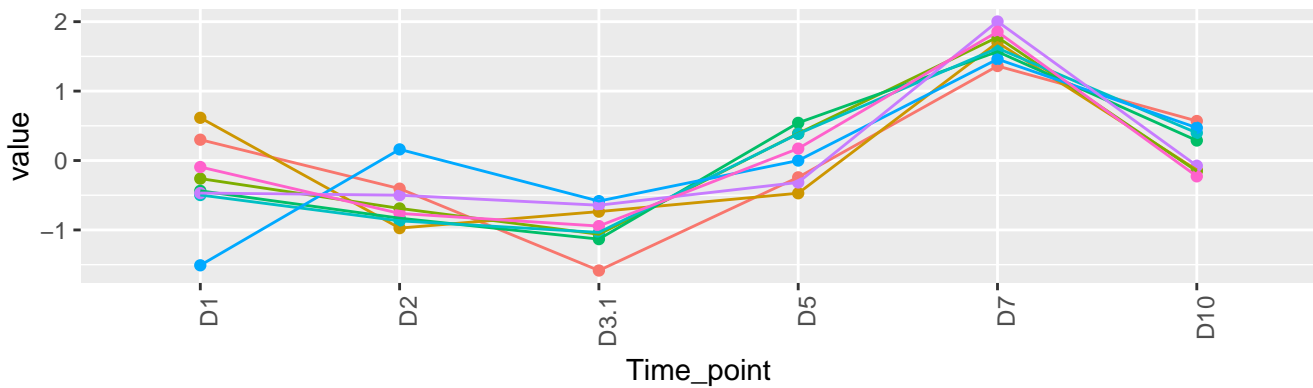
8 genes – WT-cluster-11-standardized



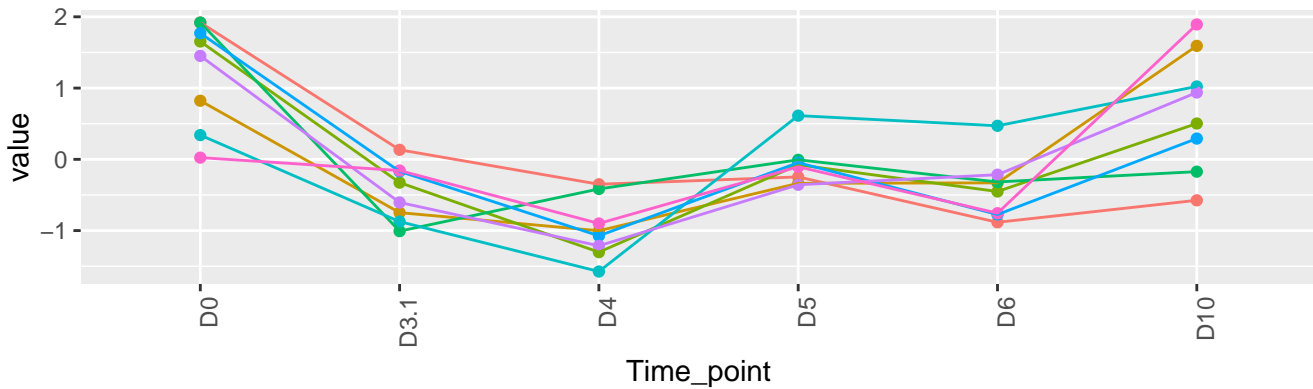
8 genes – KO-cluster-11-standardized



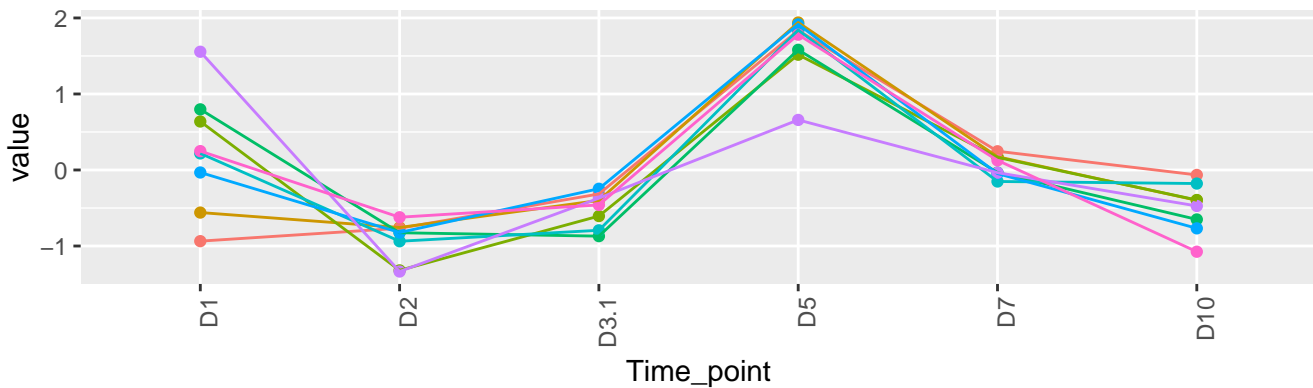
8 genes – WT-cluster-10-standardized



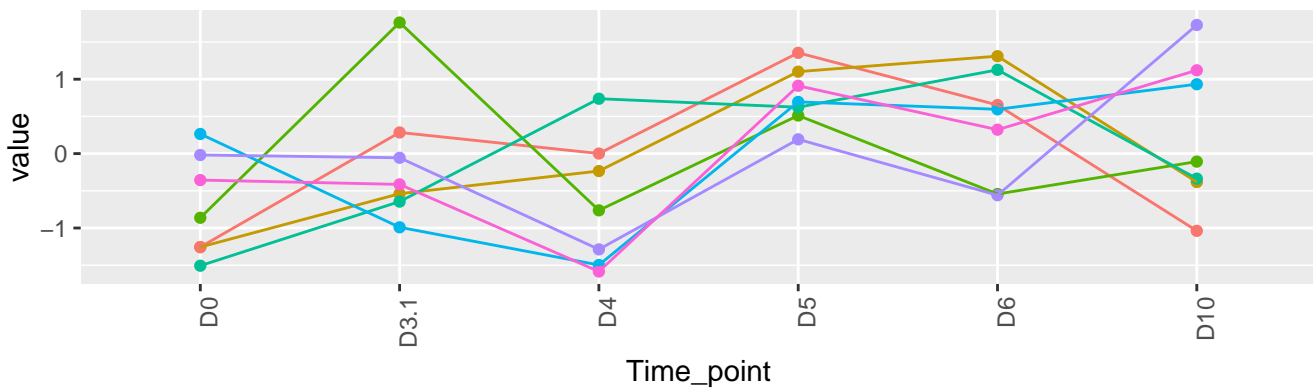
8 genes – KO-cluster-10-standardized



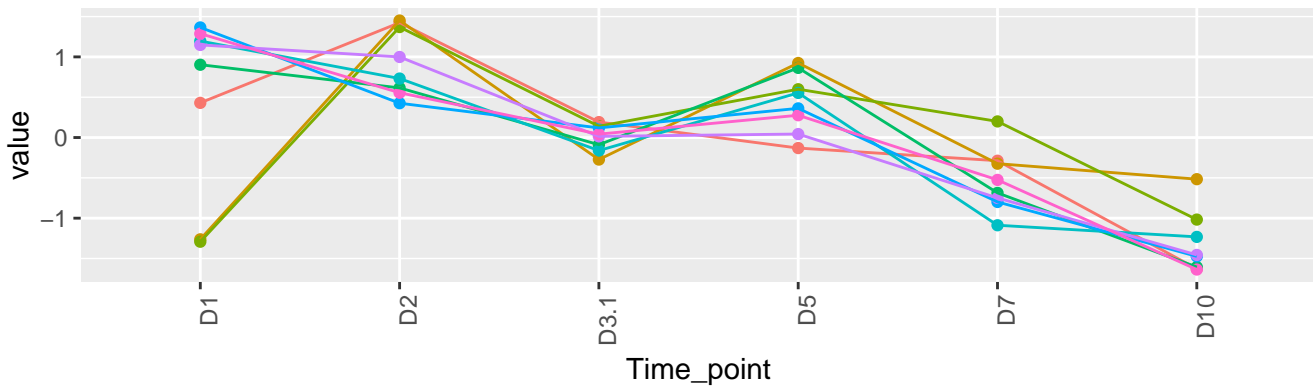
8 genes – WT-cluster-9-standardized



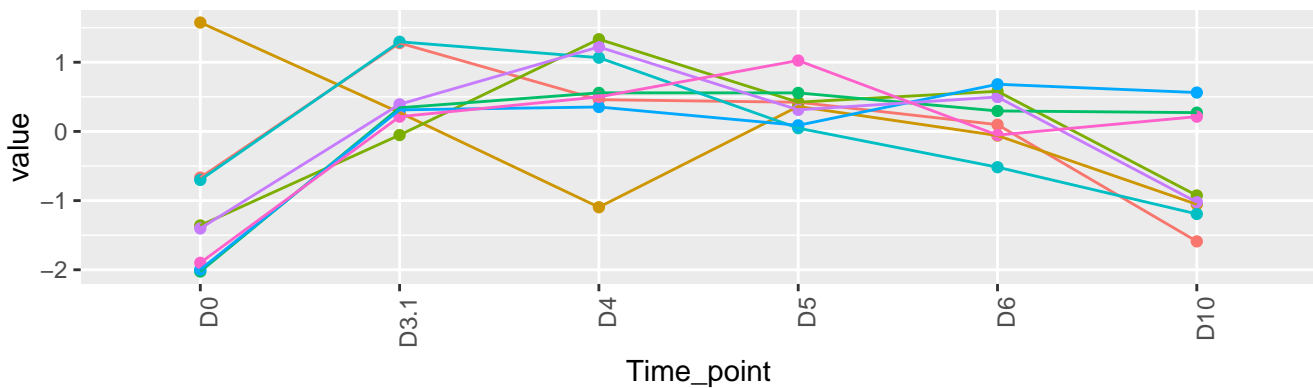
7 genes – KO-cluster-9-standardized



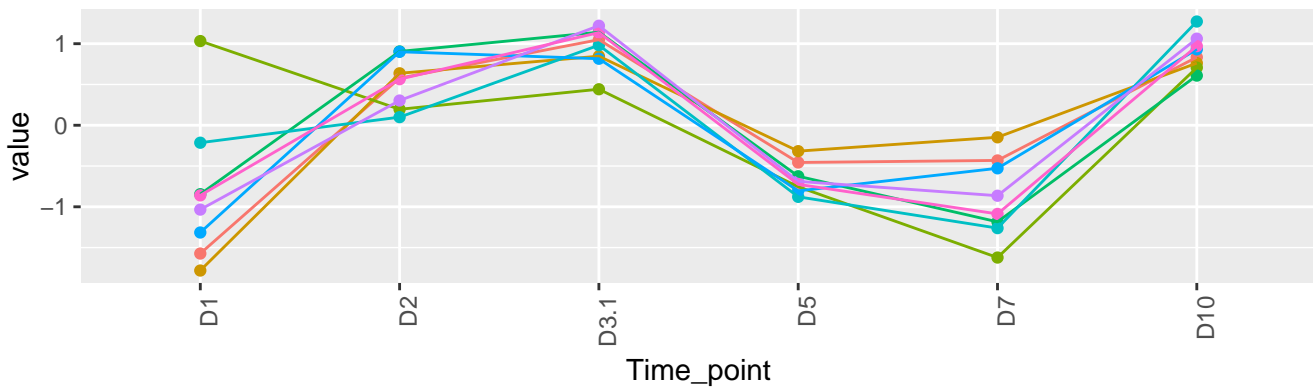
8 genes – WT-cluster-8-standardized



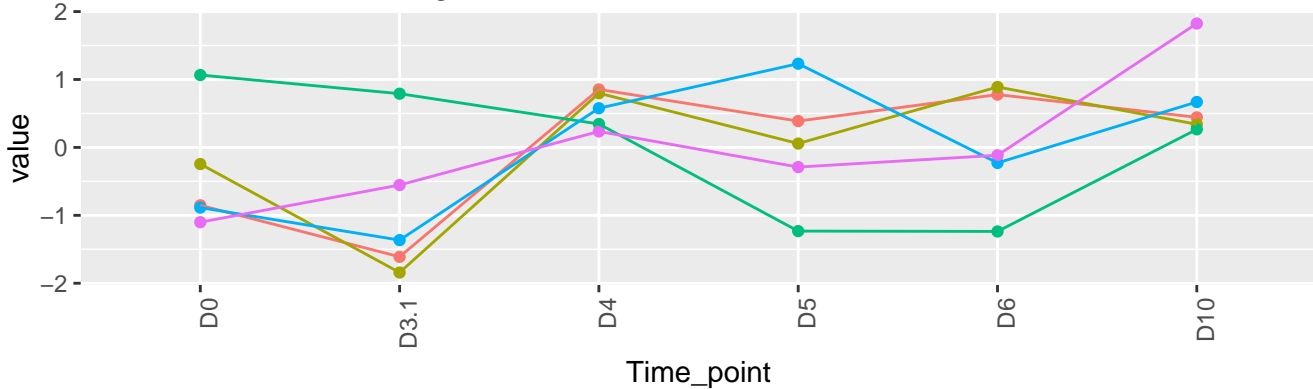
8 genes – KO-cluster-8-standardized



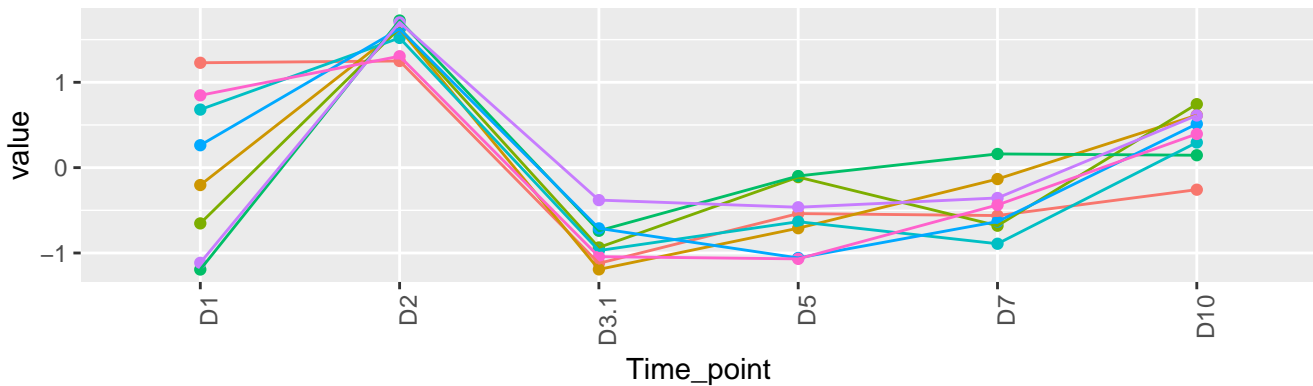
8 genes – WT-cluster-7-standardized



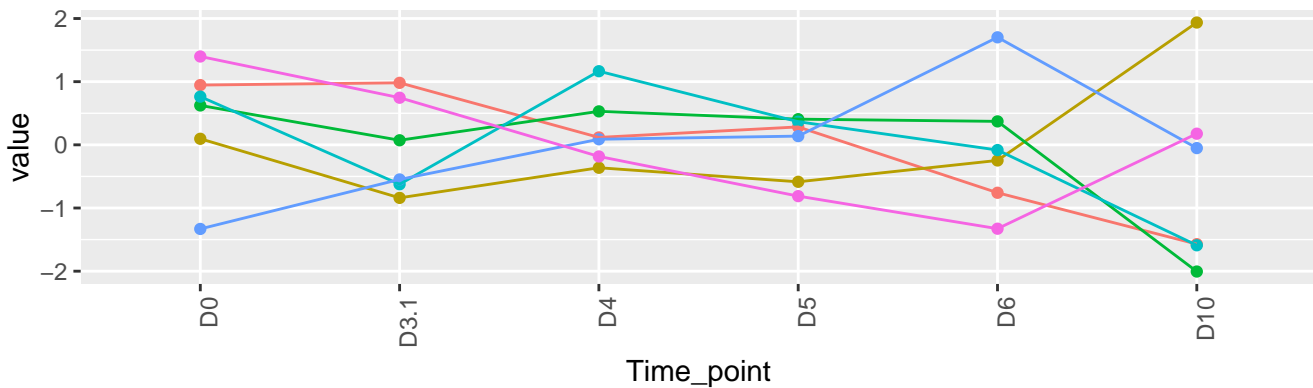
5 genes – KO-cluster-7-standardized



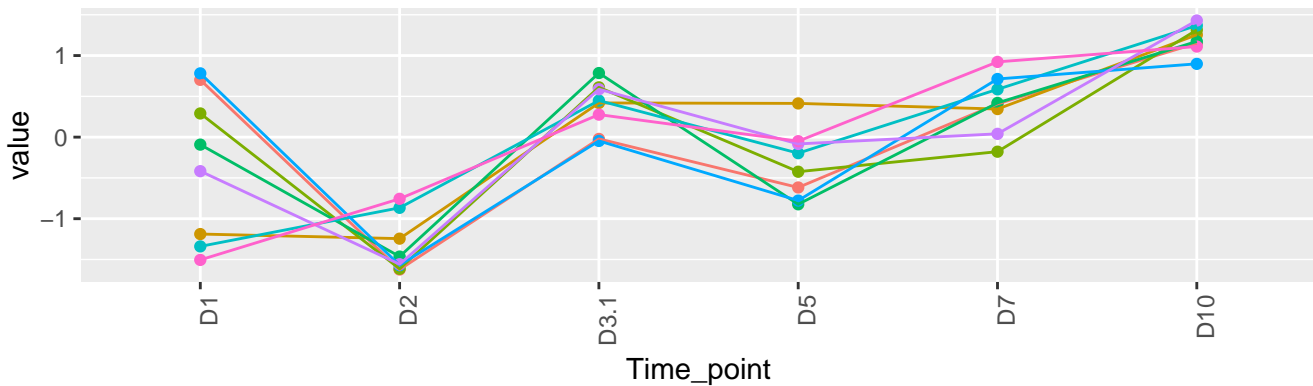
8 genes – WT-cluster-6-standardized



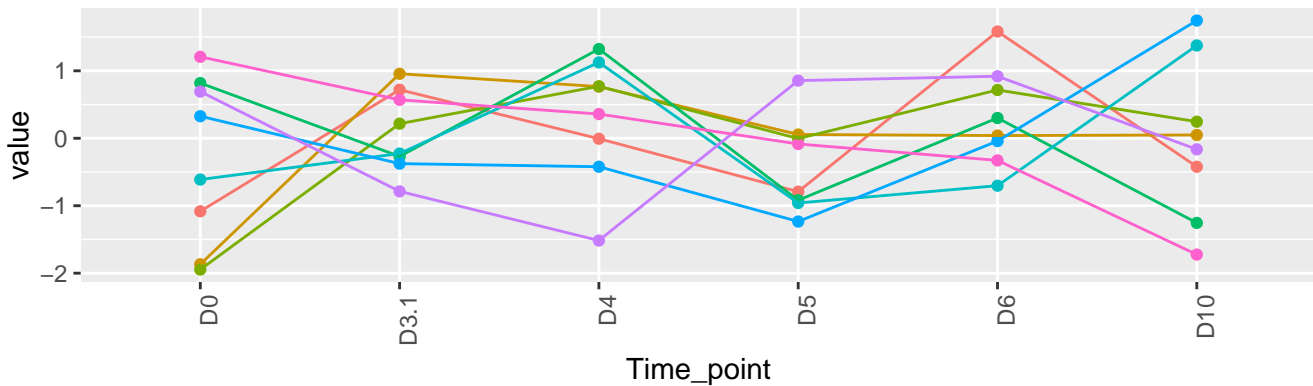
6 genes – KO-cluster-6-standardized



8 genes – WT-cluster-5-standardized

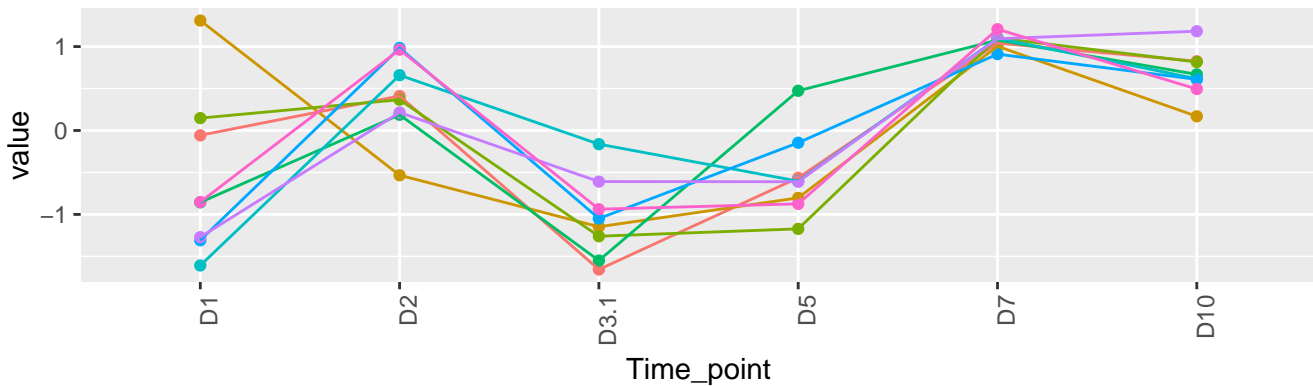


8 genes – KO-cluster-5-standardized

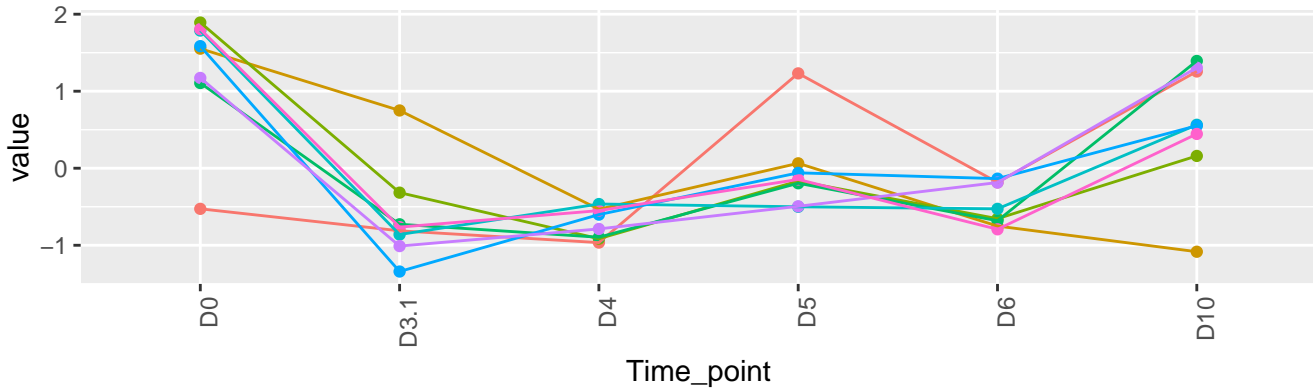




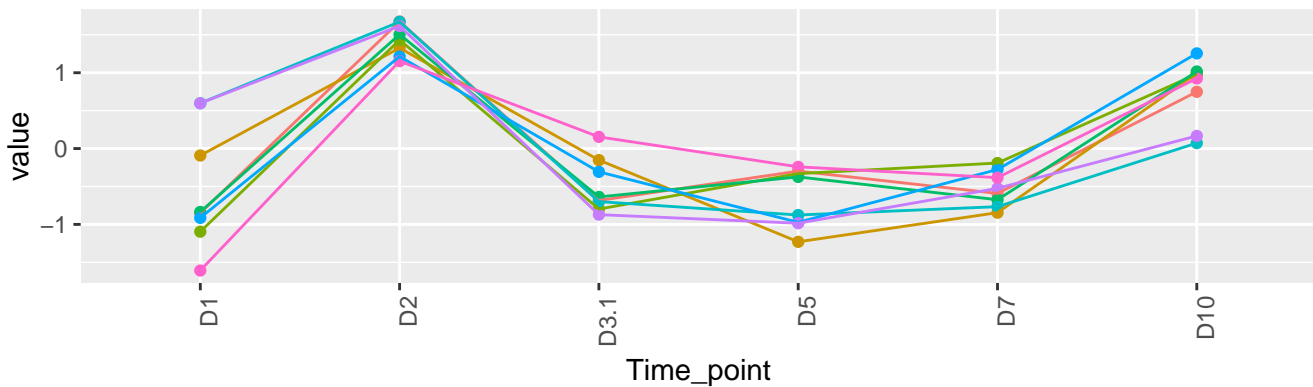
8 genes – WT-cluster-4-standardized



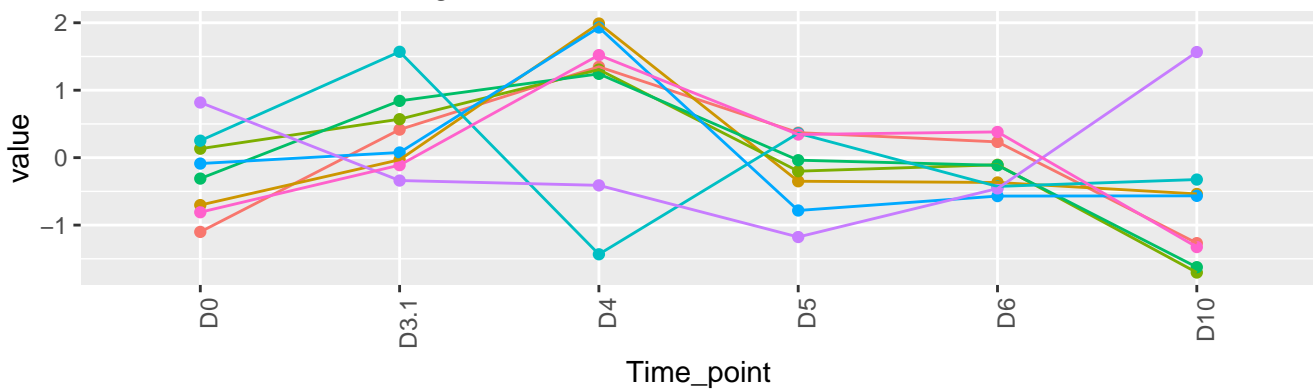
8 genes – KO-cluster-4-standardized



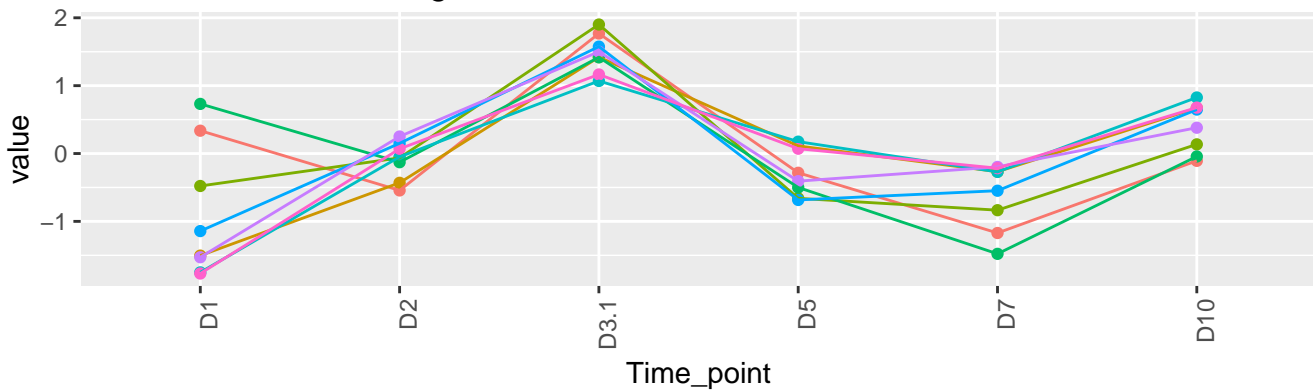
8 genes – WT-cluster-3-standardized



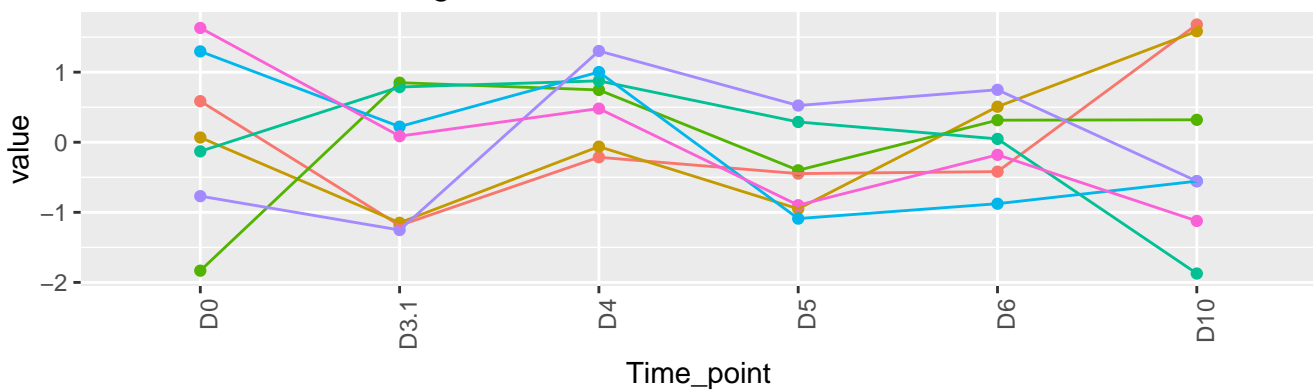
8 genes – KO-cluster-3-standardized



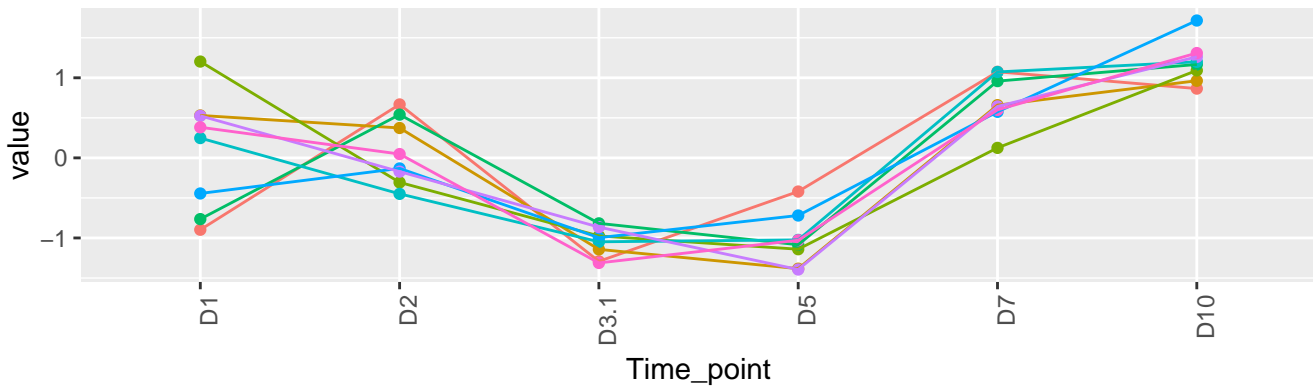
8 genes – WT-cluster-2-standardized



7 genes – KO-cluster-2-standardized



8 genes – WT-cluster-1-standardized



8 genes – KO-cluster-1-standardized

