

Supplementary Fig. S1

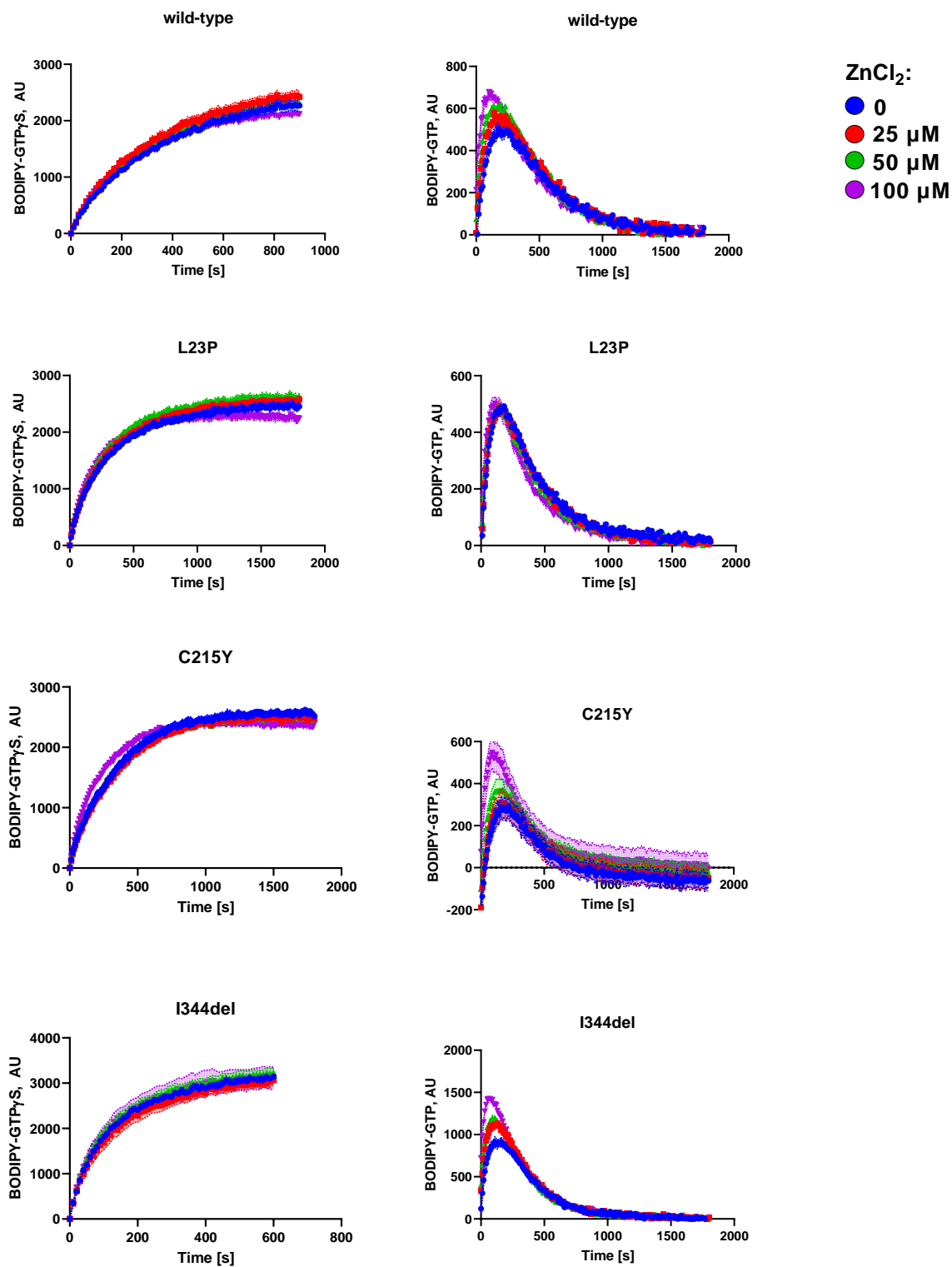
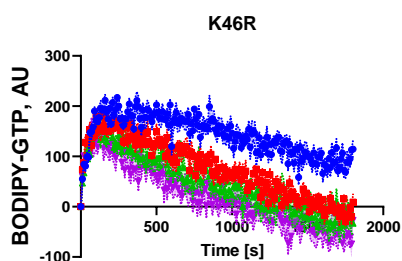
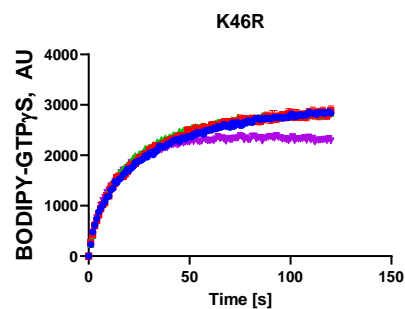


Figure S2



Gao + ZnCl₂:

- 0
- 25 μ M
- 50 μ M
- 100 μ M

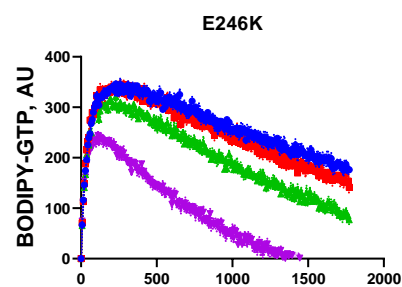
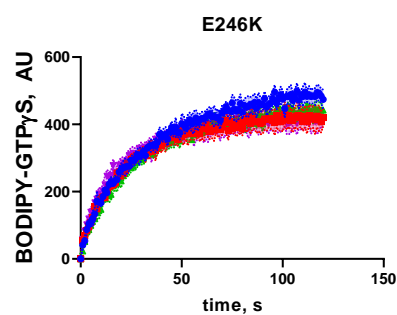
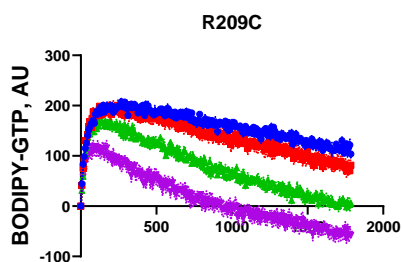
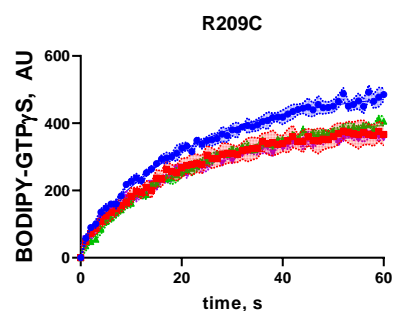
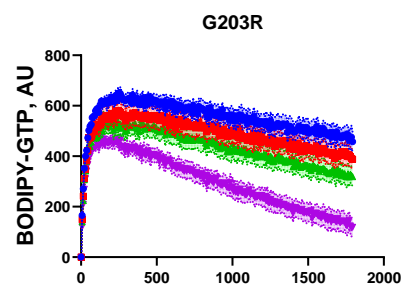
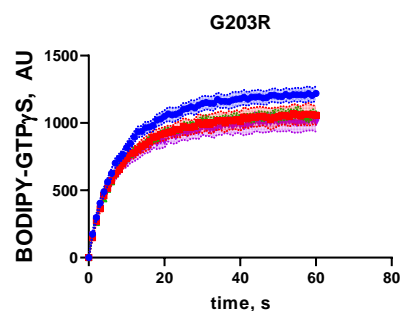
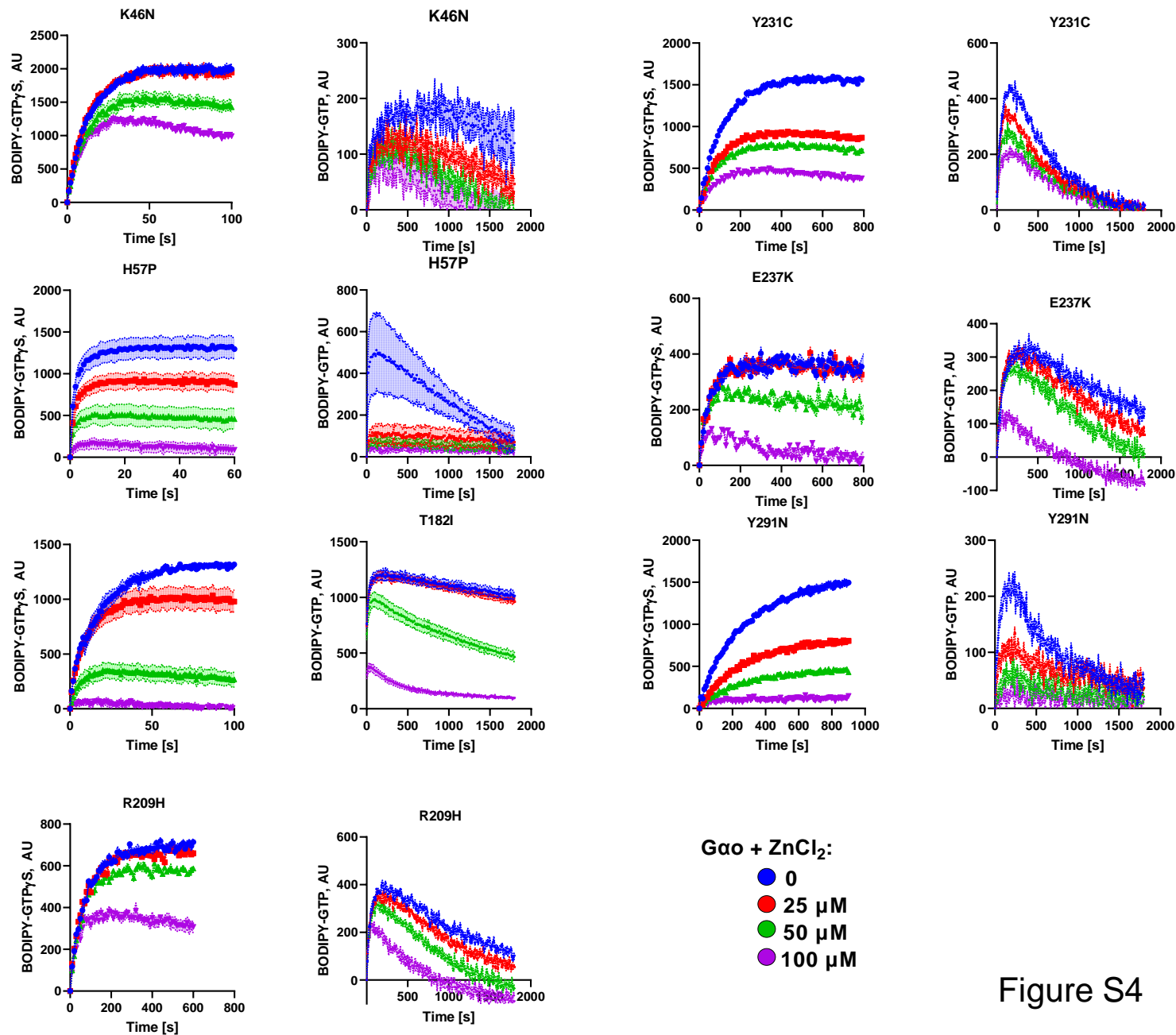
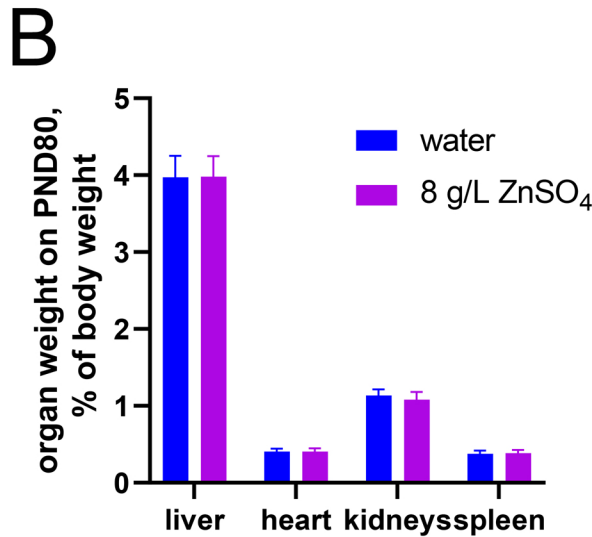
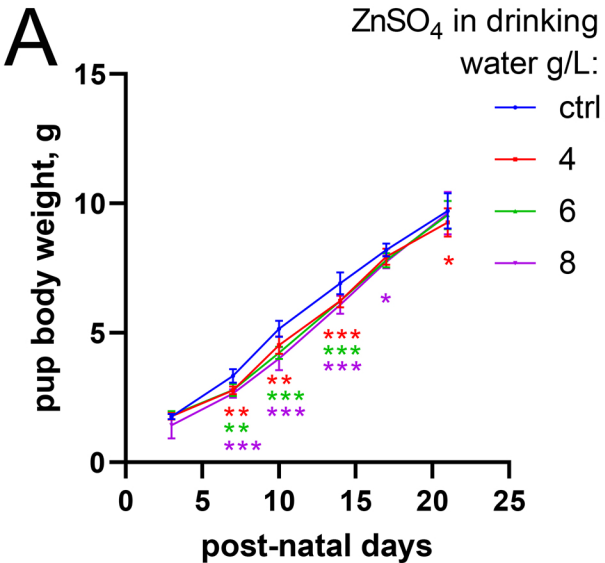


Figure S3





Supplementary Fig. S5

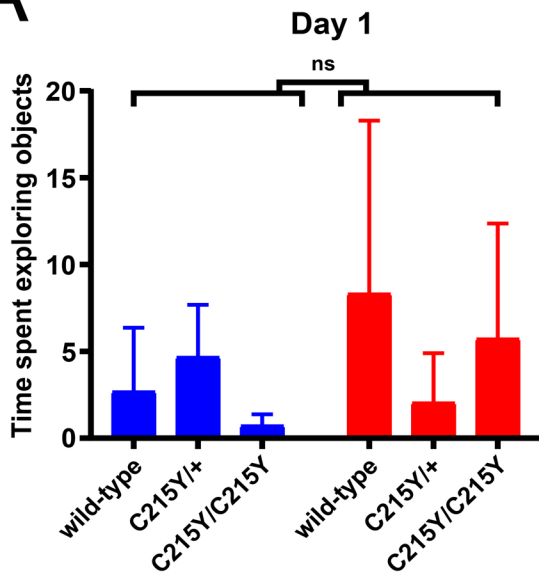
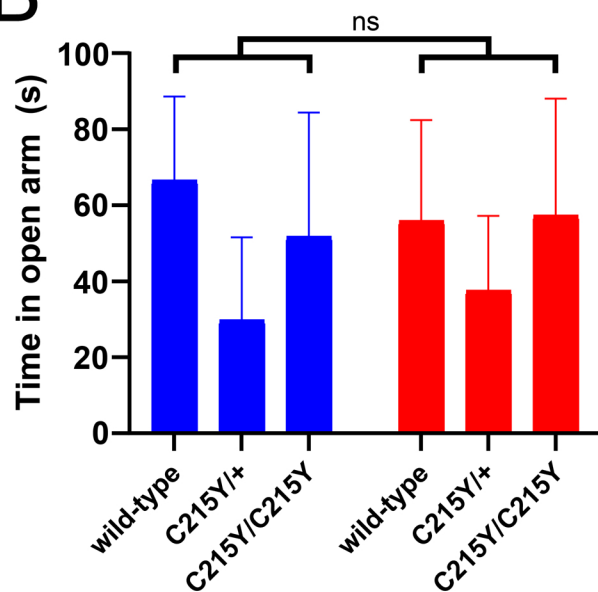
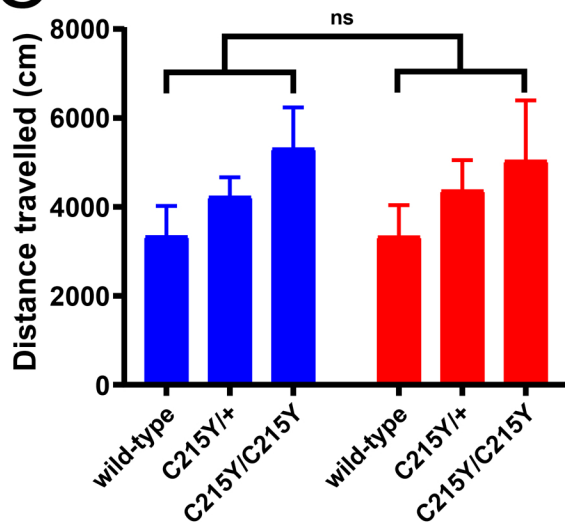
	Groups	PND							
		21	35	40	45	50	60	70	80
Urine	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Faeces	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Skin	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Orifices	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Posture	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Conscience	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							
Respiration	water	Normal (score 0)							
	8 g/L ZnSO ₄	Normal (score 0)							

	Score			
Monitored factor	0	1	2	3
Urine	Normal	Changes in color and appearance		Severe hematuria, severe incontinence, no urination for period of >24h
Faeces	Normal	Moist faeces	Diarrhea or excessive dryness	Severe or bloody diarrhea
General condition (skin, orifices, posture and conscience)	All factors normal	Decreased activity, slight abnormalities of posture or activity, aggression, fear	Severe loss of activity, poor grooming, skin dehydration	Near or complete paralysis, cachexia or emaciation
Respiration	Normal		Rapid, shallow or abdominal breathing	Severely slowed or obstructed breathing

Figure S6

Organ(-s)	Inspection and comparison criteria	Differences between groups?	
		Water, N=4, females	ZnSO ₄ , 8mg/ml N=4, females
Skin and cutaneous adnexae	Presence of lesions, ulcers, tumors or alopecia. The cutaneous adnexae, such as the claws, whiskers, and mammary glands, were inspected for any abnormalities.	None	None
Skeletal muscles	Rear paw skeletal muscles were inspected for presence of masses, edema, or hemorrhage and signs of atrophy, degeneration, or inflammation.	None	None
Inguinal and mesenteric lymph nodes	Were evaluated for any changes in size, shape, color, or consistency.	None	None
Stomach	Was examined for any ulcers, erosions, hemorrhages, or foreign bodies. The mucosa is also inspected for any overt signs of hyperplasia, inflammation, or neoplasia.	None	None
Intestine	The intestine was examined for any overt signs of perforations, obstructions, intussusceptions, or parasites. The mucosa is also inspected for any overt signs of hemorrhage, inflammation, or neoplasia.	None	None
Liver	The liver was examined for any changes in size, shape, color, or texture. The lobes were inspected for any overt signs of nodules, cysts, abscesses, or tumors.	None	None
Pancreas	The pancreas was examined for any changes in size, shape, color, or texture, as well as visible nodules, cysts, abscesses, or tumors.	None	None
Spleen	The spleen was examined for any changes in size, shape, color, or texture and for presence of any lesions.	None	None
Kidneys	The kidneys were examined for any changes in size, shape, color, or texture, overt signs of lesions, scars, tumors, or inflammation.	None	None
Ureter, bladder, and urethra	The ureter, bladder, and urethra are examined for any dilatation, obstruction, inflammation, ulceration, or neoplasia.	None	None
Ovaries and uterus	Ovaries and uterus were inspected for overall size and shape and for presence of cysts or tumors.	None	None
Lung	The lung is examined for any changes in size, shape, color, texture, neoplasia or inflammation at the level of bronchi.	None	None
Heart and coronary arteries	The heart is examined for any changes in size, shape, color, or texture. The coronary arteries were also examined for any atherosclerosis, occlusion, or aneurysm.	None	None
Thymus	The thymus is examined for any changes in size, shape, color, or texture. The lobes are also inspected for any involution, hyperplasia, or neoplasia.	None	None

Figure S7

A**B****C****D**