

Selective Glucocorticoid Receptor Modulation Reveals a New Role for CLEC10A in Patients With Solid Tumors

Nicoletta Colombo, Toon Van Gorp, Ursula A. Matulonis, Ana Oaknin, Rachel N. Grisham, Diane Provencher, Gini F. Fleming, Alexander B. Olawaiye, Erkut H. Borazanci, Russell Z. Szmulewitz, Subhagya Wadekar, Grace Mann, Hazel J. Hunt, Andrew E. Greenstein, and Domenica Lorusso

Presenter: Grace Mann, PhD
Corcept Therapeutics, Menlo Park, CA, USA

Disclosure Information

Grace Mann

I have the following relevant financial relationships to disclose:

Employee of: Corcept Therapeutics

Consultant for: N/A

Speaker's Bureau for: N/A

Grant/Research support from: N/A

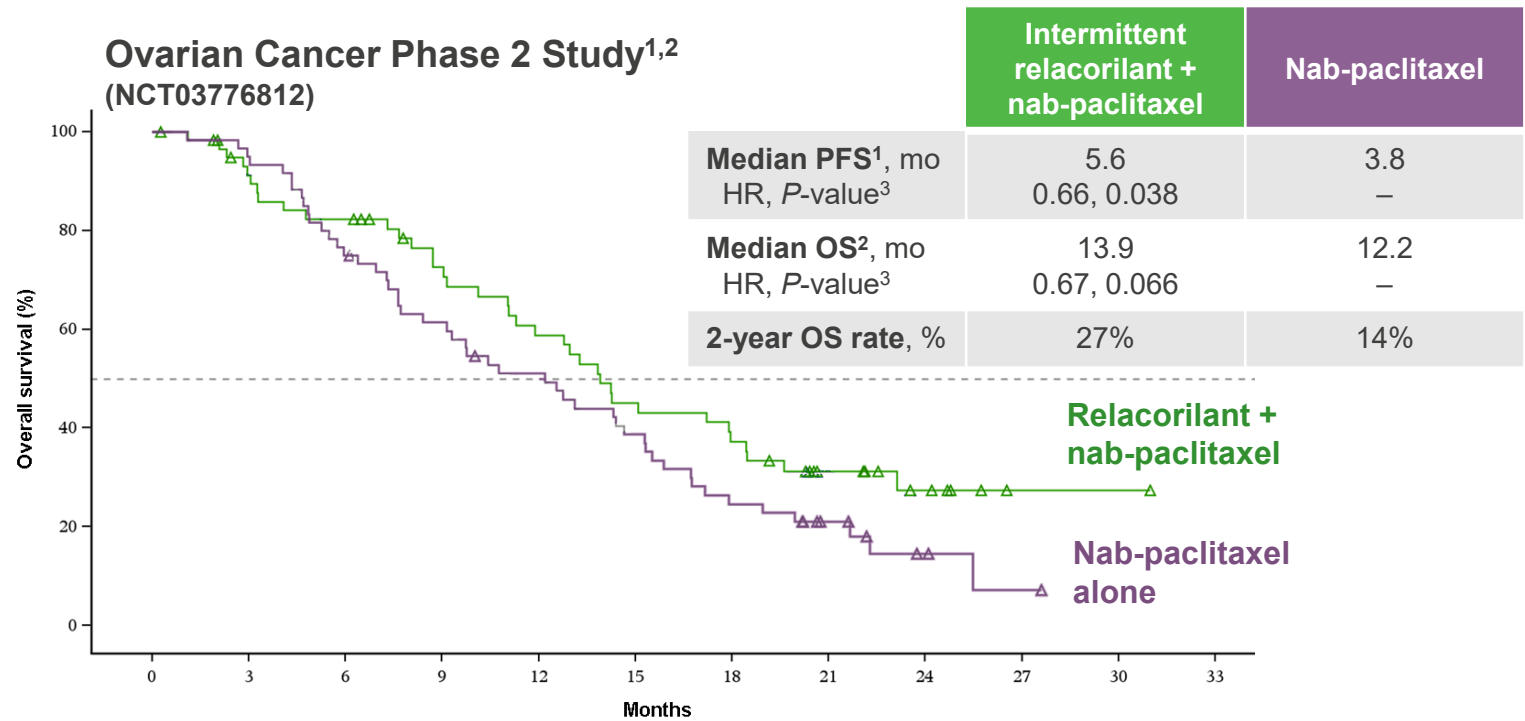
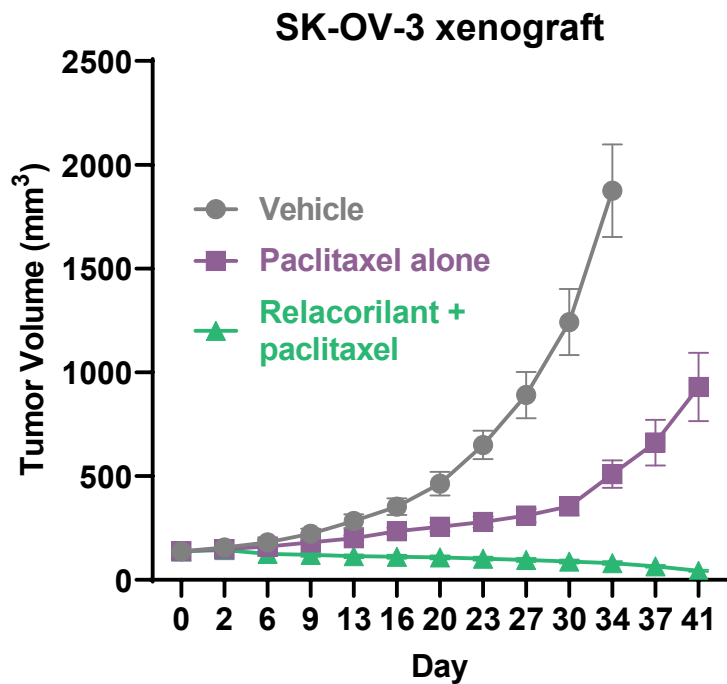
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Selective Glucocorticoid Receptor Modulators (SGRMs) Can Enhance Chemotherapy Efficacy

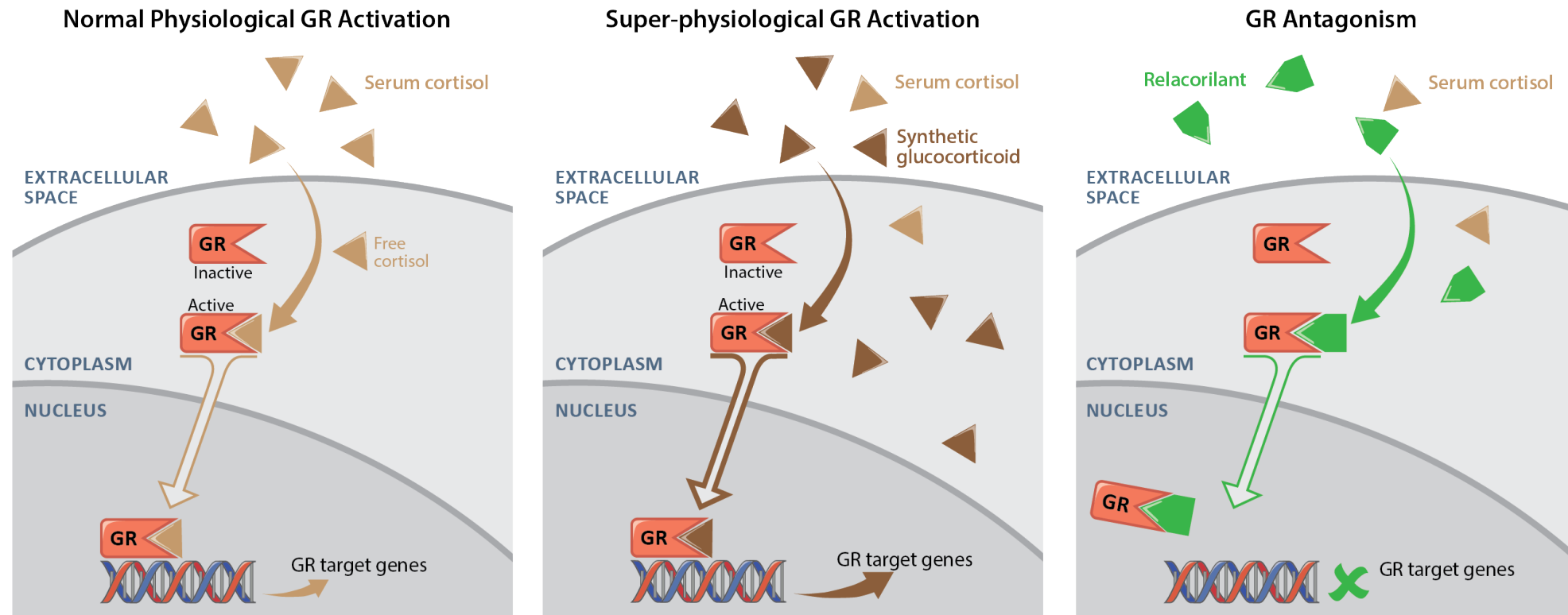
- GR activation by endogenous cortisol can induce genes that suppress chemotherapy-mediated apoptosis
- The SGRM relacorilant selectively antagonizes the GR to enhance chemotherapy efficacy



GR, glucocorticoid receptor; HR, hazard ratio; OS, overall survival; PFS, progression-free survival; SGRM, selective glucocorticoid receptor modulator.
¹Colombo N, et al. *Ann Oncol.* 2021;32(suppl 5):7210. ²Colombo N, et al. *J Clin Oncol.* 2022;40(suppl 17):LBA5503. ³P-values not adjusted for multiplicity; relacorilant dosed intermittently; confirmatory phase 3 study underway (ROSELLA; NCT05257408).

Objective: Identify Biomarkers of GR Activity

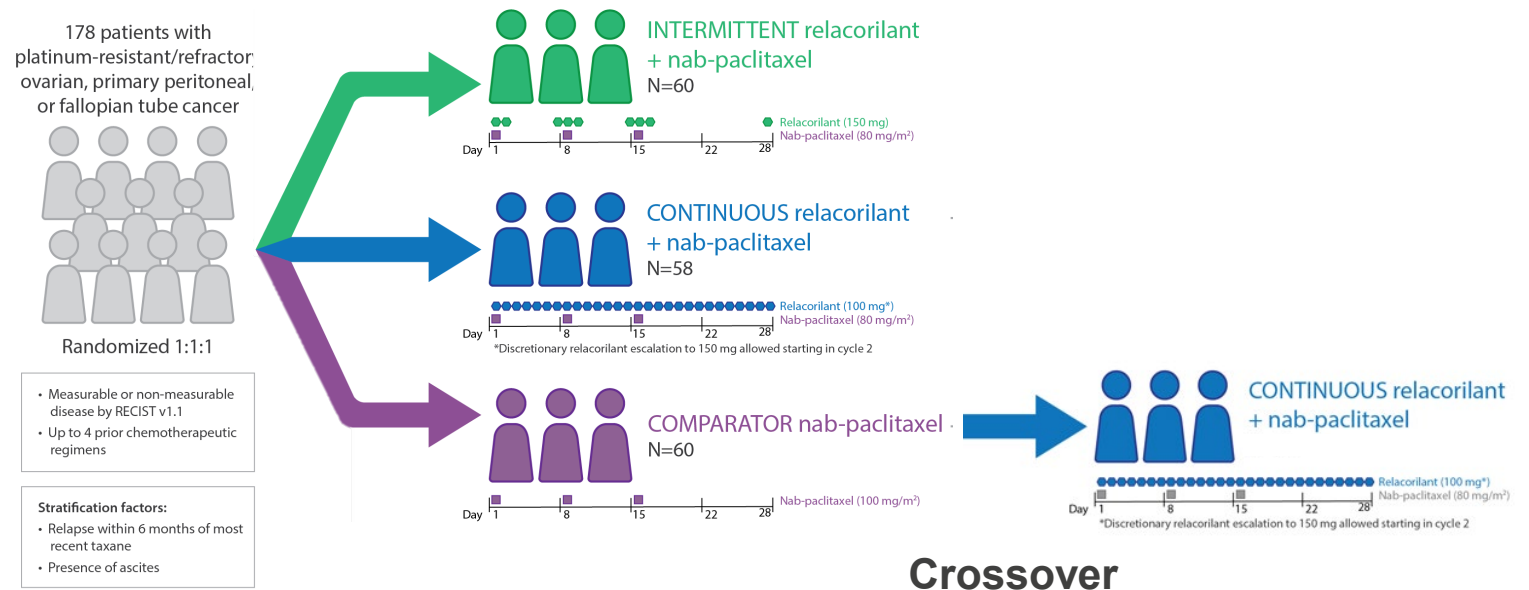
- The effects of short-term, **super-physiological glucocorticoids** on cells and tissue have been characterized
- We used oral **relacorilant** to probe the GR activities of **endogenous cortisol** in blood



GR, glucocorticoid receptor.

Discovery Data Set: Phase 2 Study in Patients With Platinum-resistant Ovarian Cancer (NCT03776812)

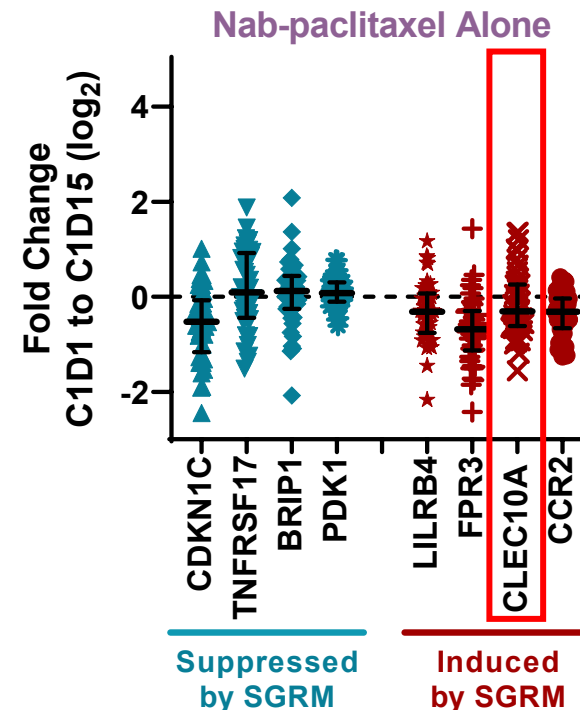
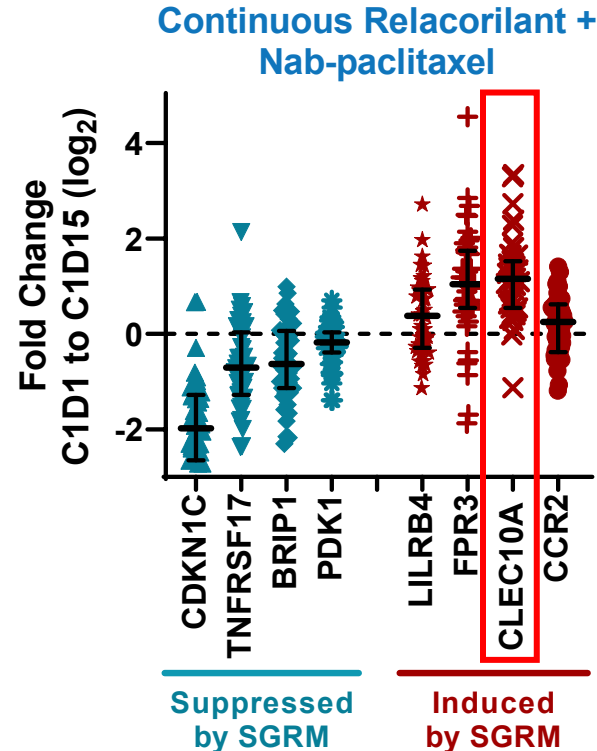
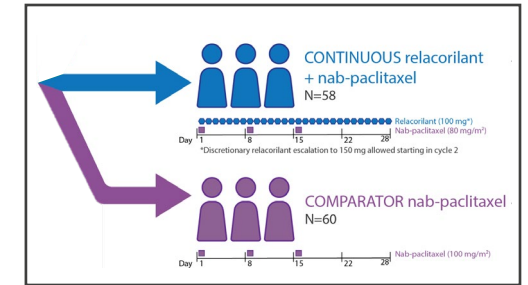
- A randomized, controlled, 3-arm study of relacorilant + nab-paclitaxel vs. nab-paclitaxel alone^{1,2}
- Crossover post-progression: Nab-paclitaxel alone to continuous relacorilant + nab-paclitaxel
- RNA analysis in whole blood:
 - Proprietary NanoString panel of 444 candidate GR-target genes
 - Assessed gene changes at baseline and after 2 weeks of treatment
 - Crossover:
 - Assessed within-patient changes on nab-paclitaxel alone vs. relacorilant + nab-paclitaxel



Data from the intermittent relacorilant + nab-paclitaxel arm are not included in this analysis. GR, glucocorticoid receptor.
¹Colombo N, et al. *Ann Oncol.* 2021;32(suppl 5):7210. ²Colombo N, et al. *J Clin Oncol.* 2022;40(suppl 17):LBA5503.

Identified Genes Affected by Relacorilant + Nab-paclitaxel, but not Nab-paclitaxel Alone

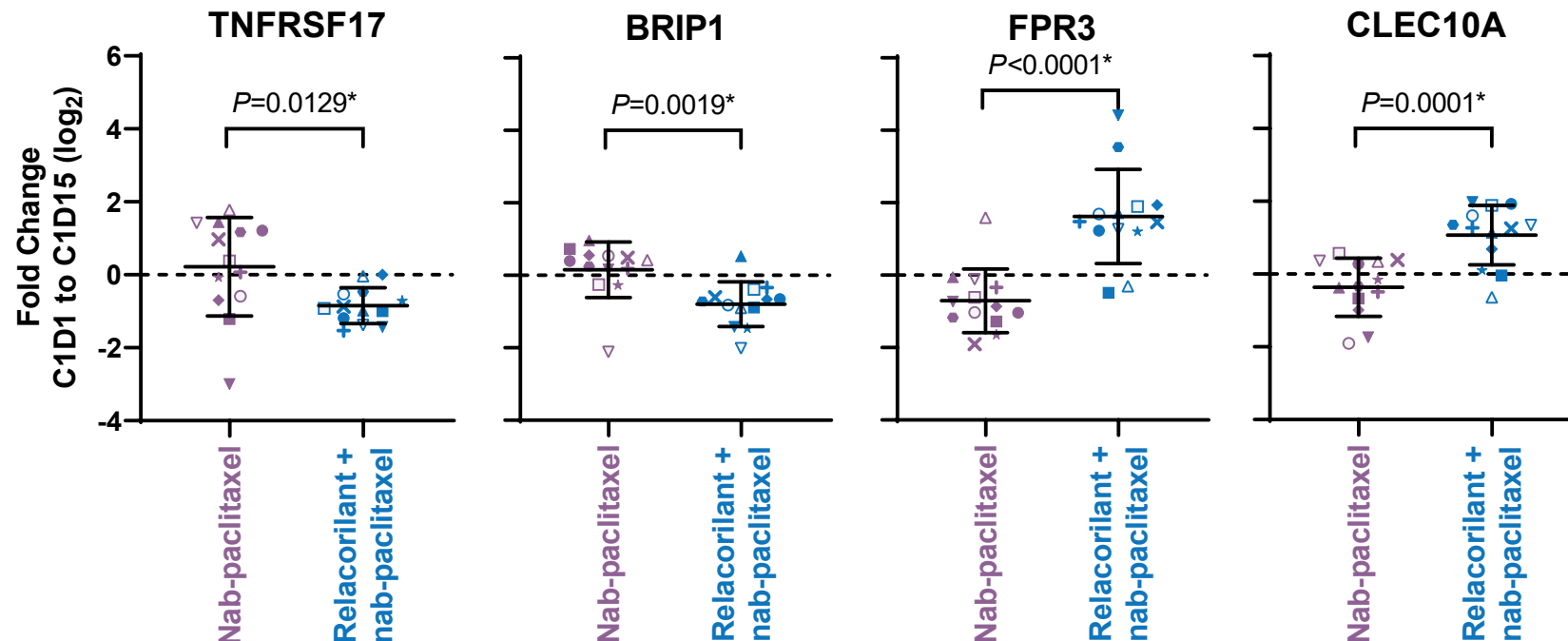
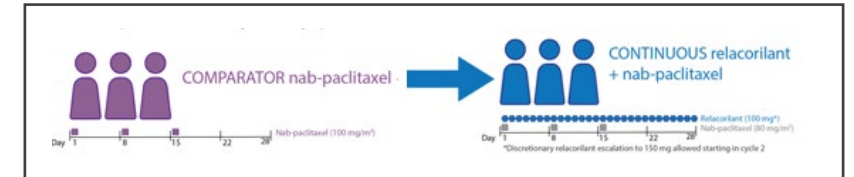
- Showing the **4 most suppressed** and the **4 most induced** genes by relacorilant
 - Testing the fold change in each gene between treatment arms resulted in $P < 0.05$



C1D1, cycle 1 day 1; C1D15, cycle 1 day 15. SGRM, selective glucocorticoid receptor modulator.

Crossover Analysis Confirms That These Genes Are Modulated by Relacorilant

- Genes were not altered on nab-paclitaxel alone
- Significant modulation observed after crossover to continuous relacorilant + nab-paclitaxel
- Confirms that these genes are markers of GR activity



* P-values not adjusted for multiplicity. Crossover analysis included n=13 patients. GR, glucocorticoid receptor.

Modulation of GR Activity Markers Confirmed in Other Solid Tumor Types: Pancreatic Ductal Adenocarcinoma (NCT04329949)

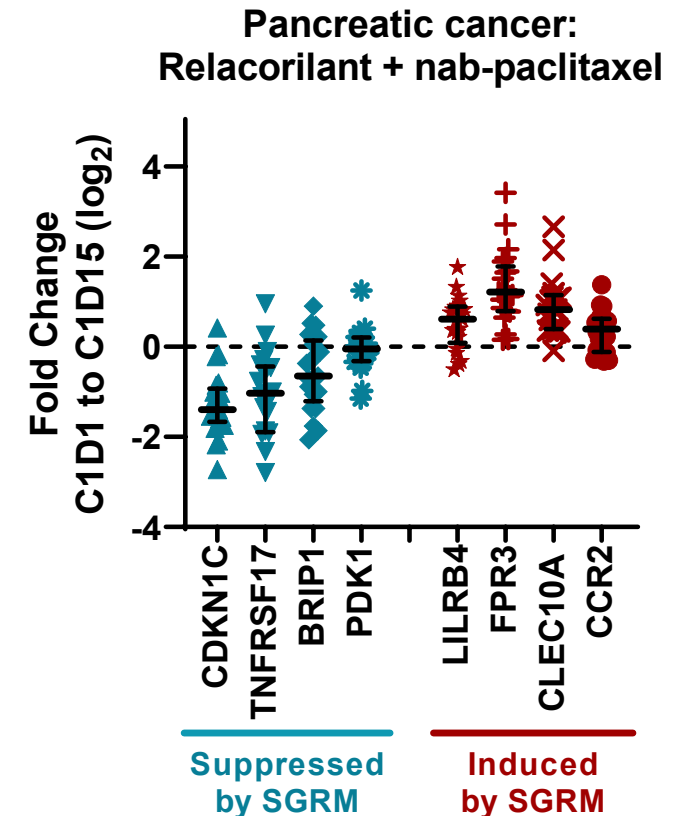
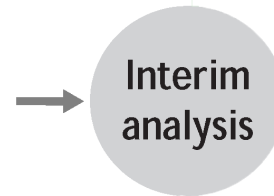
- A single-arm, open-label study of relacorilant + nab-paclitaxel in patients with metastatic PDAC¹
- Effect of relacorilant on gene panel confirmed

Patient population:

- Histologically confirmed mPDAC
- 2 to 4 prior lines of therapy
- Prior gemcitabine- and fluoropyrimidine-based therapy

Relacorilant (100 mg)
+ Nab-paclitaxel
(80 mg/m²)
(n=43)

Completed 12 weeks of treatment[†] or discontinued due to PD or toxicity

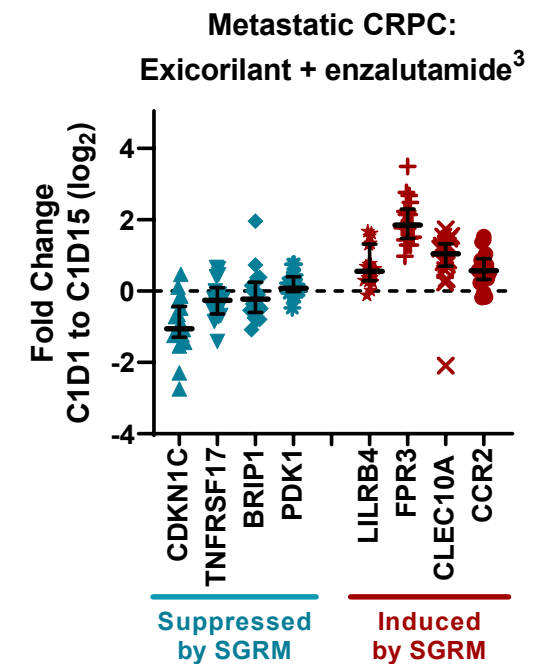
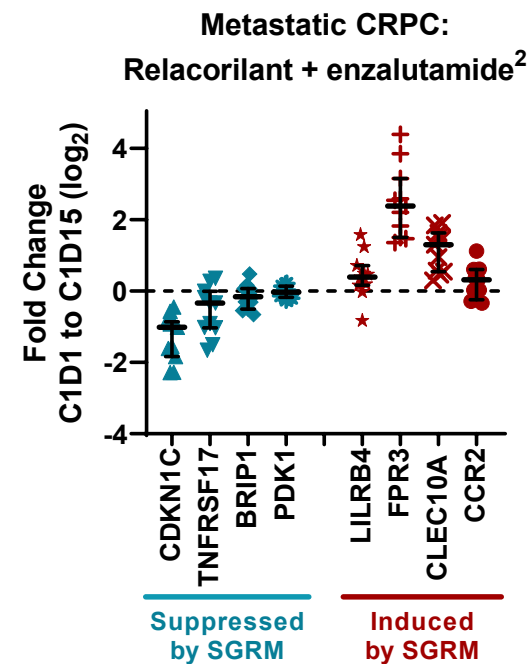
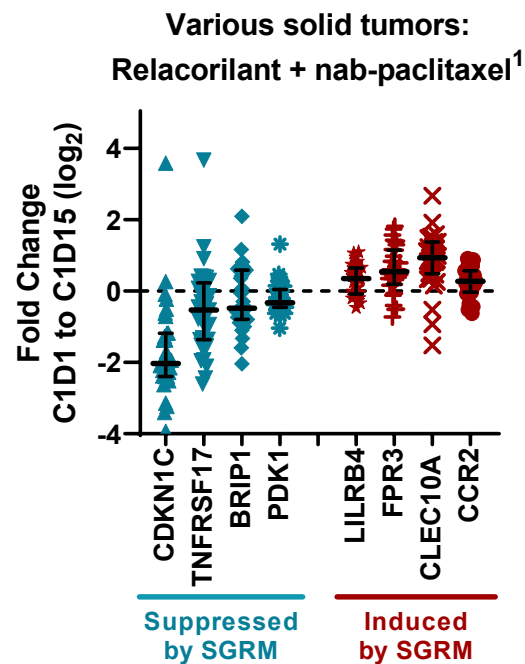


GR, glucocorticoid receptor; ORR, objective response rate; PD, progressive disease; mPDAC, metastatic pancreatic ductal adenocarcinoma; SGRM, selective glucocorticoid receptor modulator.

¹ E. Borazanci et al. *J Clin Oncol* 2022;40(16_suppl):4140–4140.

Modulation of GR Activity Markers Confirmed in Other Solid Tumor Types (NCT02762981, NCT03674814, NCT03437941)

- Similar pattern of change were observed across distinct:
 - Disease types
 - Concomitant medications (G-CSF, nab-paclitaxel, enzalutamide)
 - Selective GR modulators (relacorilant, exicorilant)



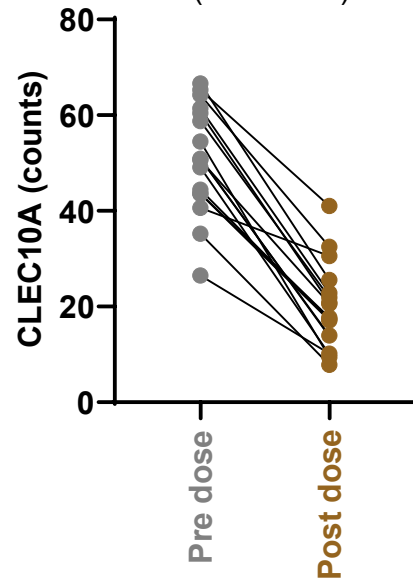
CRPC, castration-resistant prostate cancer; G-CSF, growth-colony stimulating factor; GR, glucocorticoid receptor.

¹P. Munster et al. *Clin Cancer Res.* 2022;28(15):3214–3224. ²NCT03674814. ³M. Morris et al. Poster 145, presented at: *ASCO GU Cancers Symposium 2023*, Feb. 16–18, 2023; San Francisco, CA.

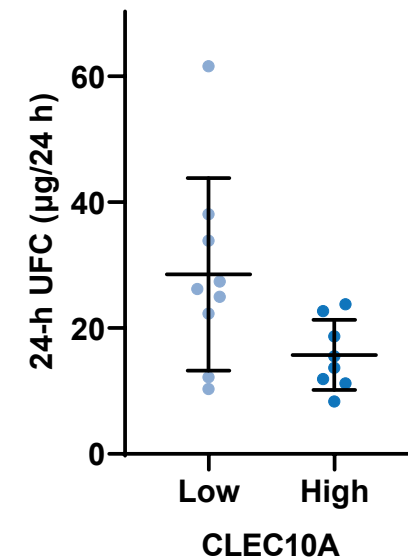
CLEC10A: A Particularly Sensitive Marker of GR Activity

- CLEC10A is strongly decreased by GR agonists and strongly increased by relacorilant
 - In healthy volunteers¹, the GR agonist prednisone rapidly decreased CLEC10A
 - In a mCRPC study², low baseline CLEC10A was associated with high baseline 24-hour urinary free cortisol

Effect of Prednisone on CLEC10A
($P < 0.0001$)



Baseline UFC vs. CLEC10A
($P = 0.037$)

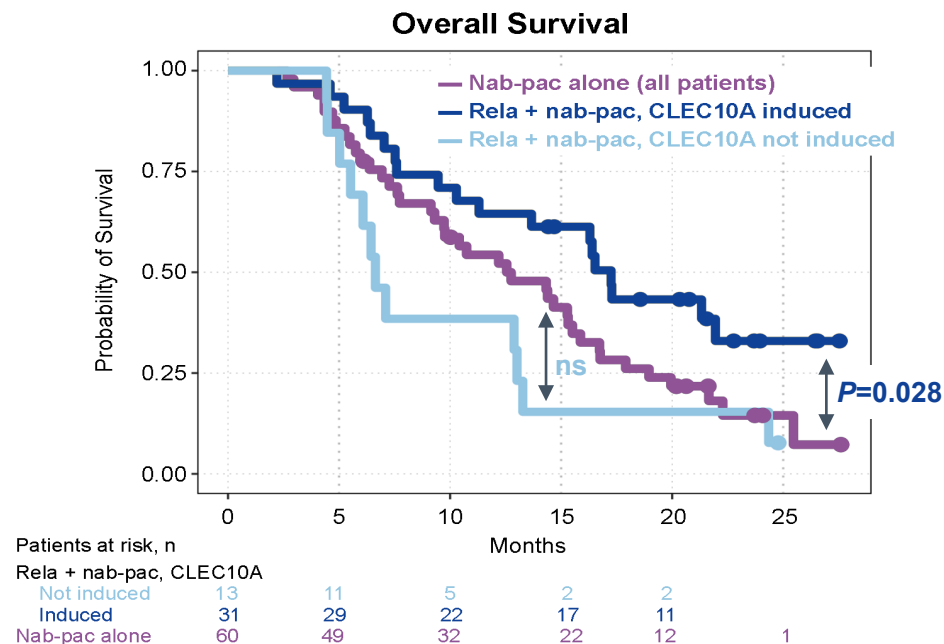


GR, glucocorticoid receptor; mCRPC, metastatic castration-resistant prostate cancer; UFC, urinary free cortisol.

¹Healthy volunteer study (NCT03335956); CLEC10A assessed pre- and 4-h post 25 mg prednisone. ²M. Morris et al. Poster 145, presented at: ASCO GU Cancers Symposium 2023, Feb. 16–18, 2023; San Francisco, CA.

CLEC10A Induction by Relacorilant Is Associated With Longer Overall Survival in Patients With Ovarian Cancer

- In a post-hoc, exploratory analysis, patients treated with relacorilant + nab-paclitaxel¹ with CLEC10A induction experienced improved OS compared to nab-paclitaxel alone
 - No significant difference from nab-paclitaxel alone observed in patients receiving relacorilant + nab-paclitaxel without induction in CLEC10A
- This suggests that GR modulation by relacorilant is associated with clinical benefit



	Relacorilant + nab-paclitaxel vs. nab-paclitaxel alone	
	CLEC10A induced	CLEC10A not induced
Log rank P -value	0.028	0.26
Median OS		
Nab-paclitaxel alone	12.2	12.2
Relacorilant + nab-paclitaxel	17.2	6.6
HR vs. nab-paclitaxel alone	0.55	1.44

¹Exploratory, post-hoc analysis in the ovarian cancer phase 2 study (NCT03776812). GR, glucocorticoid receptor; HR, hazard ratio; nab-pac, nab-paclitaxel. OS, overall survival; rela, relacorilant.

Conclusions

- We identified reliable indicators of GR activity in whole blood RNA.
- Consistent pharmacodynamic effects were observed in multiple tumor types.
- CLEC10A was a particularly sensitive marker of GR activity.
 - CLEC10A is induced by SGRMs and suppressed by synthetic and endogenous glucocorticoids.
- CLEC10A increase was associated with longer OS in patients with ovarian cancer treated with the SGRM relacorilant + nab-paclitaxel.
 - This suggests a possible association between GR modulation and clinical benefit.
- These studies confirm that systemic GR activity in patients with a range of solid tumors can be modulated pharmacologically and provide new insights into the systemic functions of the GR in humans.

Thank you!

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- The study patients and their families,
- the investigators, and
- the sponsor team.