

# Relaxin (AZD7970)

Last program update: May 7, 2020

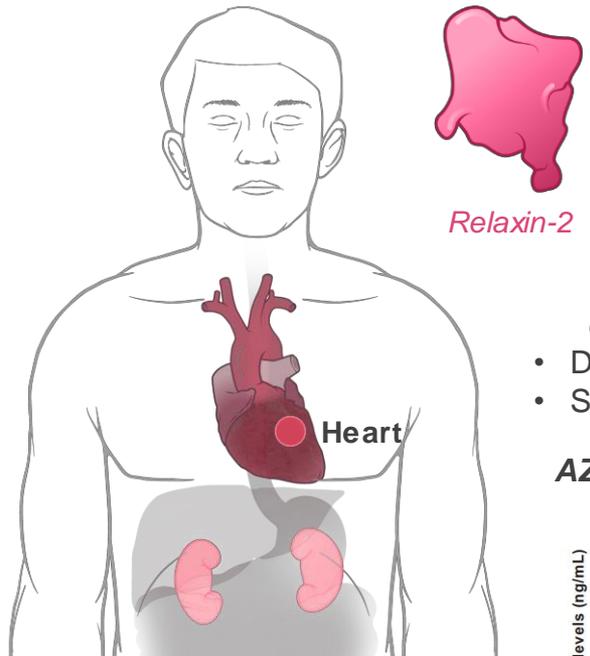
Modality	ID #	Program Indication		Preclinical development	Phase 1	Phase 2	Phase 3 and commercial	Moderna rights
 Systemic secreted & cell surface therapeutics	mRNA-1944	Antibody against Chikungunya virus						Worldwide DARPA funded
	<b>AZD7970</b>	Relaxin Heart failure						50-50 U.S. profit sharing; AZ to pay royalties on ex-U.S. sales
	mRNA-6981	PD-L1 Autoimmune hepatitis						Worldwide
	mRNA-6231	IL-2 Autoimmune disorders						Worldwide

**AZD7970 is in IND-enabling GLP toxicology studies**

# Relaxin (AZD7970 overview)

## Endogenous protein associated with cardiovascular remodeling

- A naturally occurring hormone (human relaxin-2), present in both men and women, that becomes elevated in pregnant women
- Protects from vascular overwork, increases renal function, promotes cell growth and survival, and maintains vessel structure

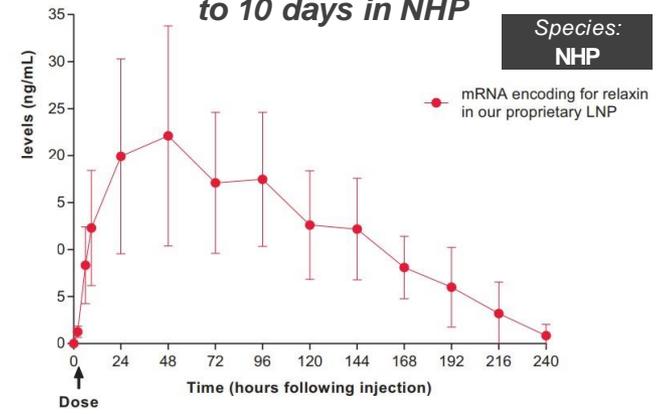


Relaxin is a vasoactive peptide associated with cardiovascular remodeling

**Prior Novartis program failed to meet endpoints in multiple Phase 3 studies**

- Delivered as a 48 hr infusion
- Short serum half-life

**AZD7970 has shown protein expression up to 10 days in NHP**



**Moderna concept: IV-administered mRNA encoding relaxin peptide hormone with longer serum half life to address heart failure**

Adapted from Du et al. *Nat Rev Cardiol.* 2010;7:48-58; Novartis relaxin briefing document (Feb 2014)

# Forward-looking statements

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