

Intellia Therapeutics Legal Disclaimers

This presentation contains "forward-looking statements" of Intellia Therapeutics, Inc. within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, but are not limited to, express or implied statements regarding Intellia's ability to advance and expand the CRISPR/Cas9 technology to develop into in vivo human therapeutic products, as well as our CRISPR/Cas9 intellectual property portfolio; our ability to achieve effective and safe liver editing, as well as genome editing in other human organs and cellular and non-cellular settings; effective genome editing with a single treatment dose or several ones; the potential timing and advancement of our preclinical studies, including continuing non-human primate studies, and clinical trials; the potential development of the ex vivo cell therapeutics through our eXtellia division, including the development of next-generation T cell therapies that address unmet needs in hematological and solid tumors, immuno-oncology and auto-immunity; the intellectual property position and strategy of Intellia's licensors; actions by government agencies; the impact of our collaborations with Novartis and Regeneron, as well as Ospedale San Raffaele, on our discovery and development programs; the potential timing of regulatory filings regarding our development programs; the potential commercialization opportunities, including value and market, for product candidates; our expectations regarding our uses of capital, expenses, future accumulated deficit and other 2017 financial results; and our ability to fund operations through mid-2020.

Any forward-looking statements in this presentation are based on management's current expectations and beliefs of future events, and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to: risks related to Intellia's ability to protect and maintain our intellectual property position; risks related to the ability of our licensors to protect and maintain their intellectual property position; risks related to valid intellectual property owned by third-parties to which Intellia may not have rights; uncertainties related to the initiation and conduct of studies and other development requirements for our product candidates; the risk that any one or more of Intellia's product candidates will not be successfully developed and commercialized, or approved by the relevant governmental agencies; the risk that the results of preclinical studies will be predictive of future results in connection with future studies; and the risk that Intellia's collaborations with Novartis or Regeneron will not continue or will not be successful. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause Intellia's actual results to differ from those contained in the forward-looking statements, see the section entitled "Risk Factors" in Intellia's most recent annual report on Form 10-K and most recent quarterly report on Form 10-Q filed with the Securities and Exchange Commission, as well as discussions of potential risks, uncertainties, and other important factors in Intellia's other filings with the Securities and Exchange Commission. All information in this presentation is as of the date of the presentation, and Intellia Therapeutics undertakes no duty to update this information unless required by law.

Intellia Value Drivers

Genome Editing

Proprietary
Delivery System

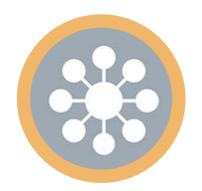
Diversified Pipeline

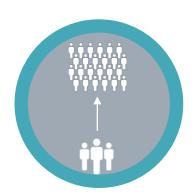
Scalable Application

Committed Partnerships









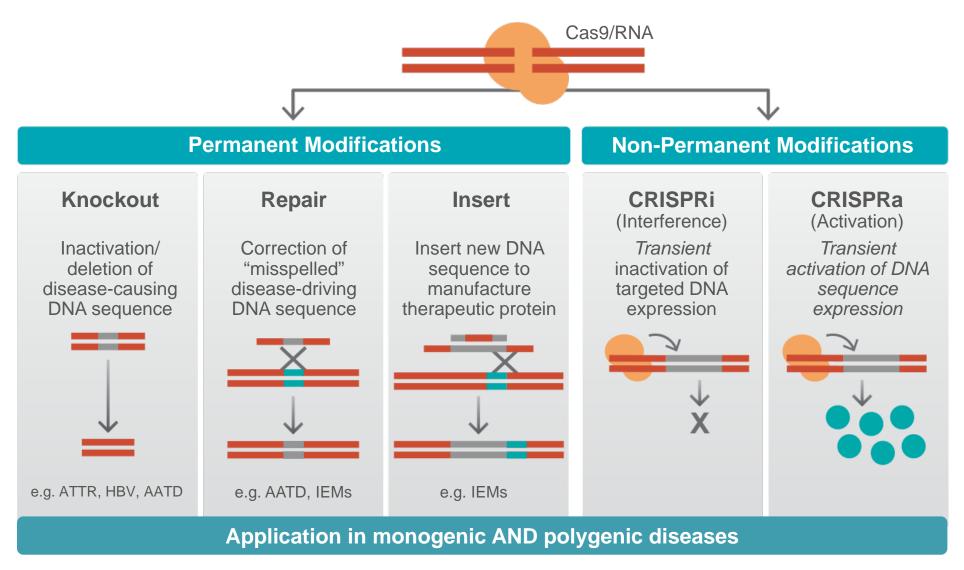


First company to demonstrate dose-dependent CRISPR/Cas9 liver editing in non-human primates



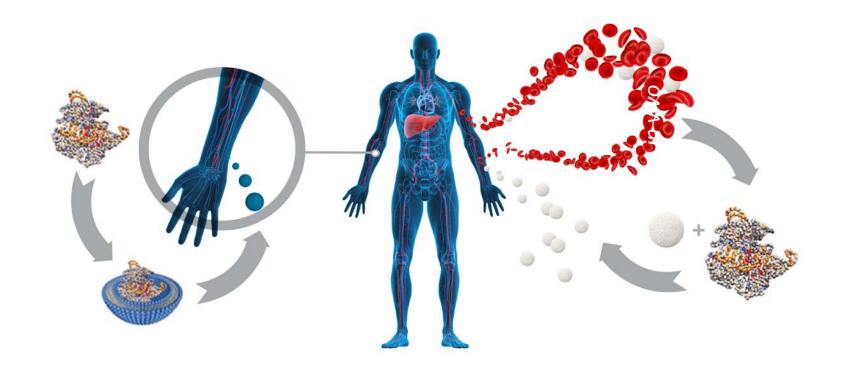
Genome Editing Approaches to Address Wide Spectrum of Genetic Diseases

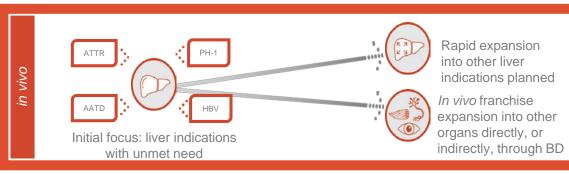
Disease-Defined DNA Editing





Diversified Opportunities with in vivo and ex vivo Delivery







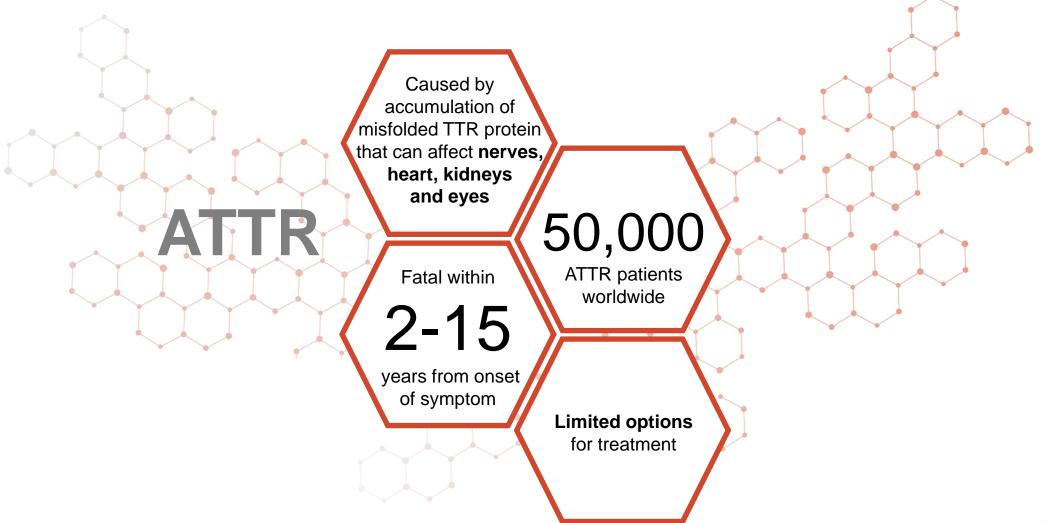


R&D Programs

	Programs	Program Lead	Status
in vivo	ATTR (Transthyretin Amyloidosis)	Inte ia REGENERON	NHP Studies
	HBV (Hepatitis B)	Intelia	Animal Model Studies
	AATD (Alpha-1 Antitrypsin Deficiency)	Intellia	Guide Design & Evaluation
	PH-1 (Primary Hyperoxaluria Type 1)	Intellia	Guide Design & Evaluation
ex vivo	HSC (Hematopoietic Stem Cells)	Intelia Unovartis	Late Stage Preclinical Development
	CAR-T Cells (Chimeric Antigen Receptor)	UNOVARTIS	Preclinical Development
	I-O (Immuno-Oncology)	e tella THERAPEUTICS	Preclinical Discovery
	AIID (Autoimmune and Inflammatory Diseases)	e tellia THERAPEUTICS	Preclinical Discovery

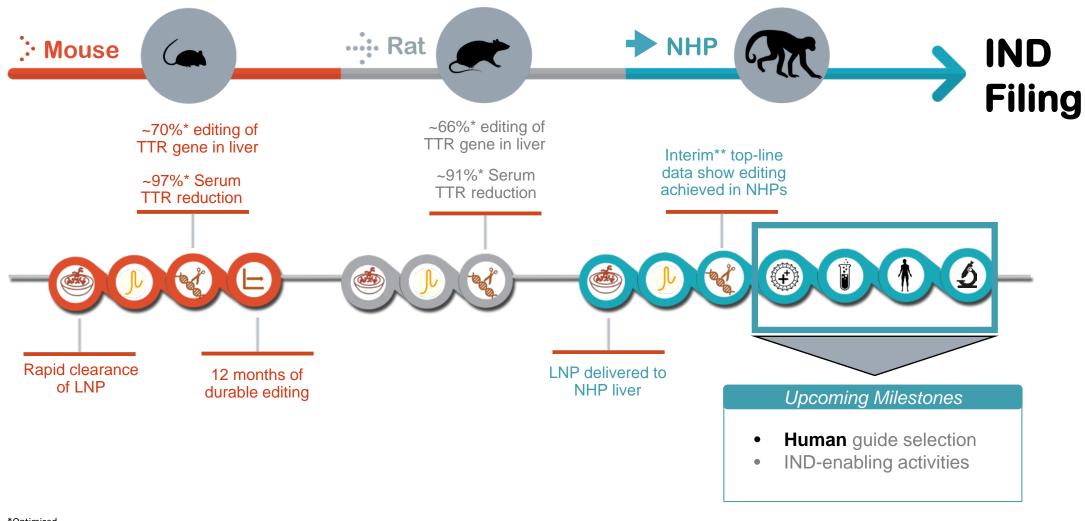


Lead in vivo Program: ATTR





Roadmap to IND Filing





**Prior to optimization



LNP Delivery to Liver



Durability



Optimize Guide



Human Guide Selection



Intellia Recent Accomplishments

In non-human primates:

- First company to demonstrate dose dependent CRISPR/Cas9 editing in non-human primates
- First company to demonstrate CRISPR/Cas9 editing via lipid nanoparticles
- First company to demonstrate in vivo CRISPR/Cas9 editing at a disease-causing gene in NHP livers
- Showed that redosing increased genome editing levels in the liver
- Demonstrated that CRISPR/Cas9 leads to TTR serum protein reduction
- Observed a safe and well-tolerated profile following single and repeat dosing

In rodents:

- Demonstrated well-tolerated, year-long editing durability in *in vivo* mouse studies
- Demonstrated well-tolerated *in vivo* liver genome editing in rats

Path to clinic:

• Commenced characterization of human guides in *in vivo* NHP studies for identification of development candidate



Upcoming Goals

<u>in vivo</u>

- Nominate first Intellia development candidate
- Initiate IND-enabling activities for first development candidate
- Hold pre-IND meeting with regulatory authorities
- Intellia selection of hematopoietic stem cell target in Novartis collaboration
- Demonstrate *in vivo* insertion/repair edit in non-human primates
- Advance additional in vivo liver target(s)
- Progress delivery and editing on second organ in non-human primates

<u>ex vivo</u>

- Develop key data on generalized allogeneic engineered cell therapy
- Generate preclinical data on T cell candidate for immuno-oncology indication
- Deliver preclinical data for Treg-based candidate in auto-immune related disease



Industry Leading Investment Thesis



Scalable Application



Committed Partnerships



Proprietary Delivery System



Robust, Global IP Portfolio



Diversified Pipeline



Strong Balance Sheet

Accelerating the development of life-transforming therapies



