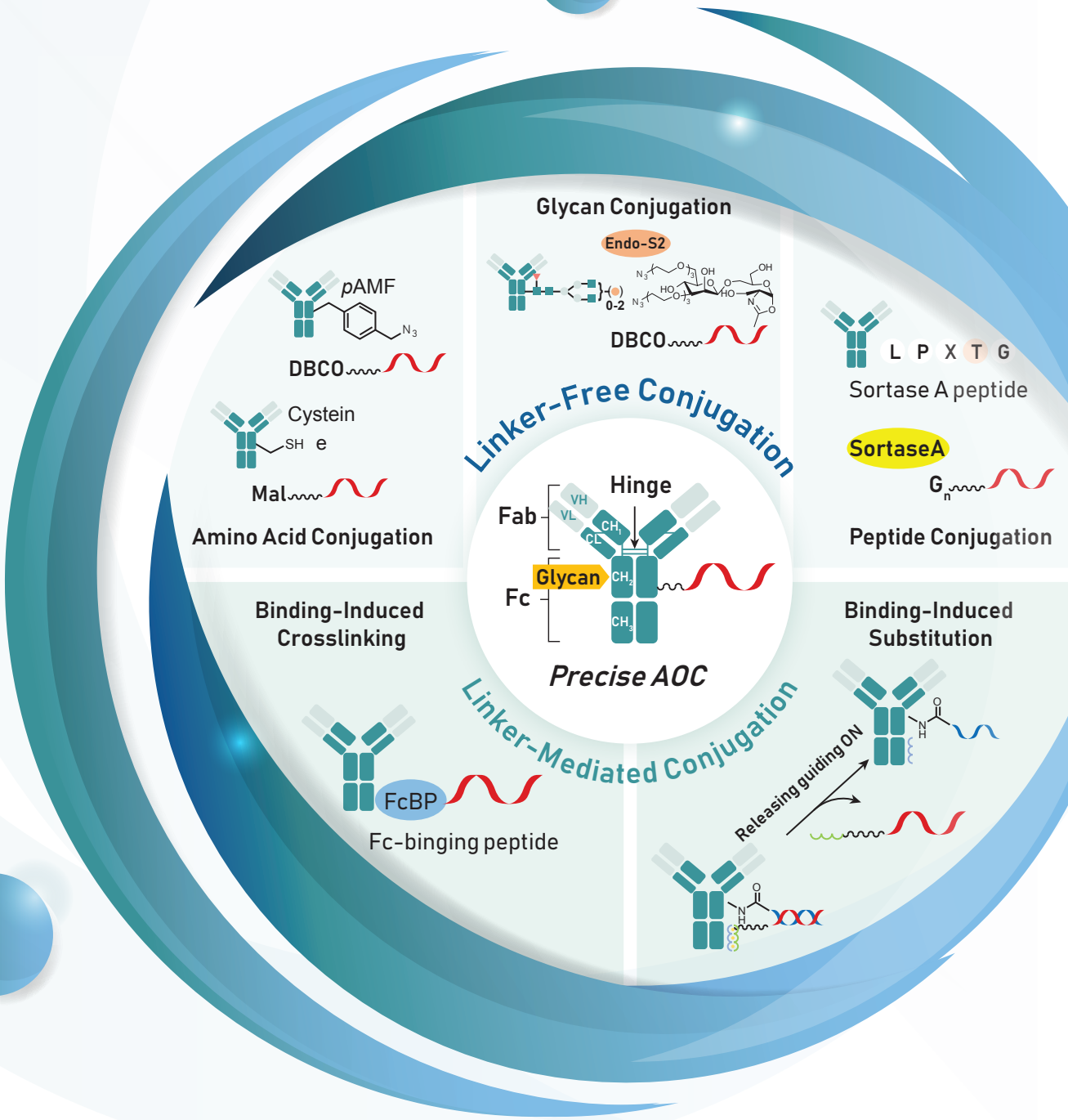
IntegrateRNA

A Division of Creative Biogene

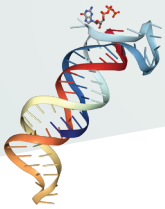


Oligonucleotide Conjugation Platform

-Your Global Partner for pharmaceutical and life science research-

info@creative-biogene.com

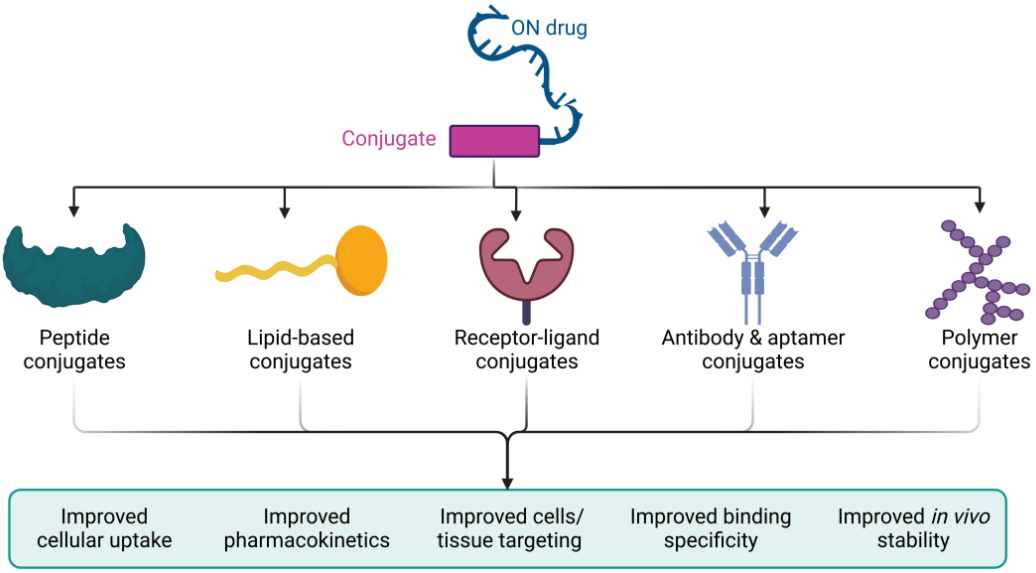
integraterna.creative-biogene.com



Oligonucleotide Conjugation Platform

Platform Introduction

Specializing in bioconjugation field, IntegrateRNA offers high-quality oligonucleotide conjuagted with GalNAc, PEG, cholesterol, peptide, antibody, protein, aptamer, or dye labeling, to facilitate diagnostic and targeted drug delivery. All oligonucleotide conjugates are produced under stringent quality control and quality assurance procedures, to assure clients' complete satisfaction.



Capabilities & Benefits

- GalNAc-Oligonucleotide Conjugation
- Cholesterol-Oligonucleotide Conjugation
- PEG-Oligonucleotide Conjugation
- Peptide-Oligonucleotide Conjugation
- Antibody-Oligonucleotide Conjugation
- Protein-Oligonucleotide Conjuagtion

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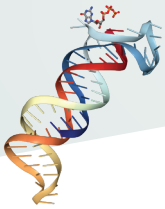
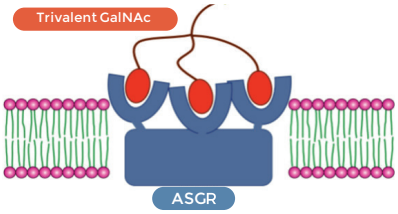
- One-stop solution: including oligonucleotide synthesis, modification and conjugation.
- Flexibility in conjugation chemistry: the conjugation strategy is designed according to the targeted biopolymer's properties and the customer's intended use.
- Stringent QC processes: delivery COA, MS, HPLC and/or other analytical data of final product

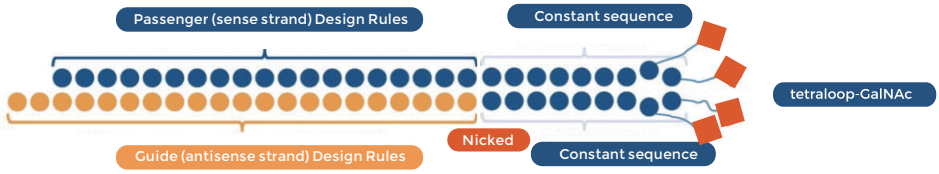


Oligonucleotide Conjugation Platform

GalNAc-Oligonucleotide Conjugation

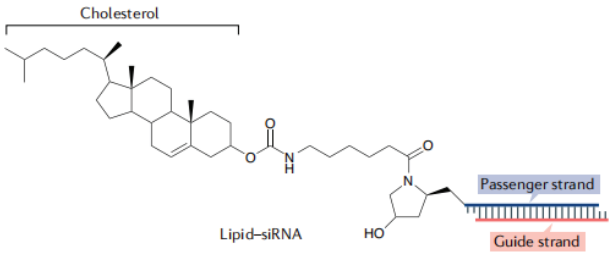
IntegrateRNA provides siRNA synthesis, modification optimization, activity validation, and high-scale GalNAc-siRNA synthesis services. Based on high throughput screening platform, we offer specific algorithm-based oligonucleotide modification design and modification pattern validation services.





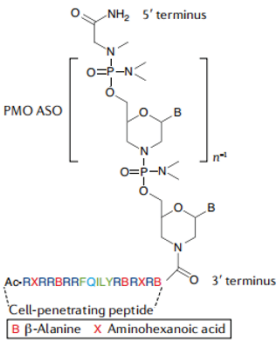
Lipid-Oligonucleotide Conjugation

- Cholesterol: cholesterol & cholesterol-TEG
- PEG: functional PEGs and PEG derivatives
- α-Tocopherol
- Squalene
- Fatty Acid: palmitic acid (C16), stearic acid (C18), docosanoic acid (C22)



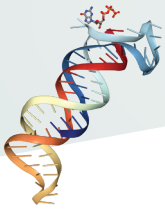
Peptide–Oligonucleotide Conjugation

We produce peptides and oligonucleotides for many years, with a strong focus on a wide range of modifications. From this combined expertise, we offer custom production of peptide-oligonucleotide conjugates (POC).



Different conjugation strategies can be applied based on sequences and customer requirements. POCs can harbor specific modifications, either on the peptide or on the oligo branch, to fit varied functionalities.

- **Cell Penetrating Peptide (CPP)-Conjugated Oligonucleotide**
- **Cyclic RGD-Conjugated Oligonucloetide**

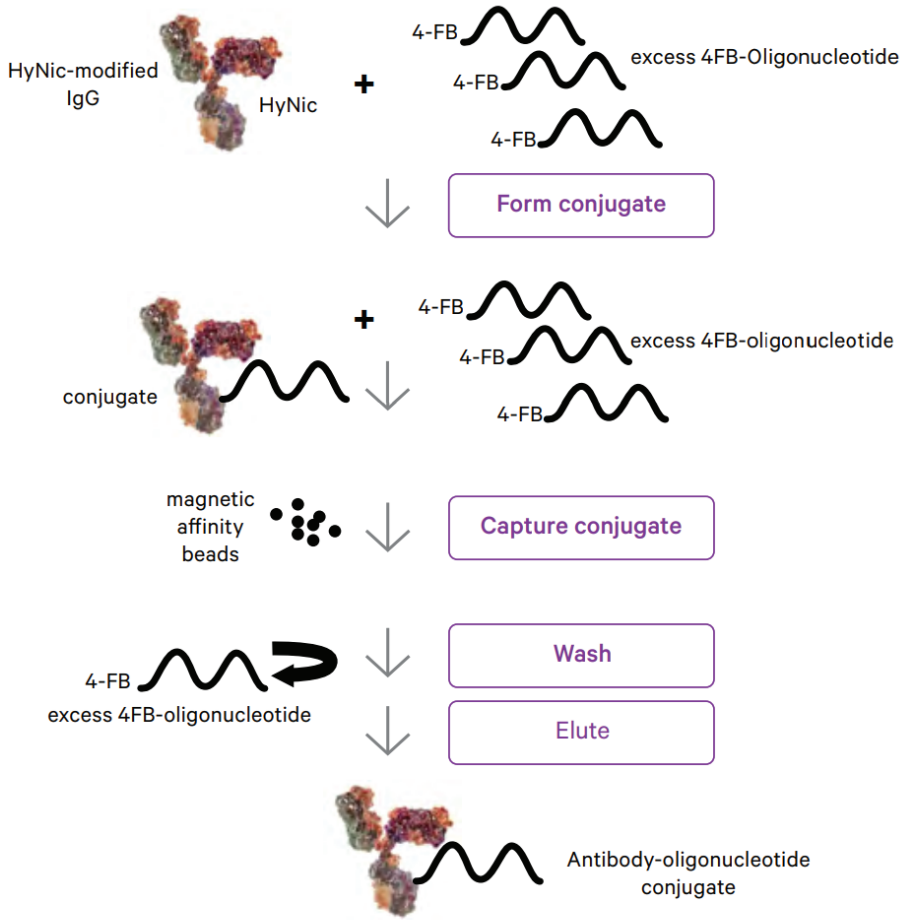


Oligonucleotide Conjugation Platform

Antibody-Oligonucleotide Conjugation

Antibody–oligonucleotide conjugates (AOCs) are a novel class of synthetic chimeric biomolecules that combine the high precision of siRNA/ASO with the targeting abilities and biodistribution profiles of antibodies, thus synergizing the advantages of both technologies.

Workflow of Antibody-Oligonucleotide Conjugation



Advantages

- Allow oligonucleotides(up to 120 mers/bases long)
- Various types of antibodies: mAb, Fab, IgG, IgM, affibody, scFv
- Do not adversely affect antibody binding or solubility
- Strict quality assurance and quality control standards

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Contact Us

SUITE 115, 17 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-626-9181 (USA) | 44-208-123-7131 (Europe)

Fax: 1-631-614-7828

Email: info@creative-biogene.com