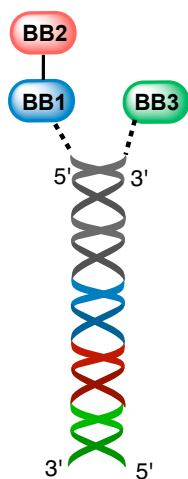
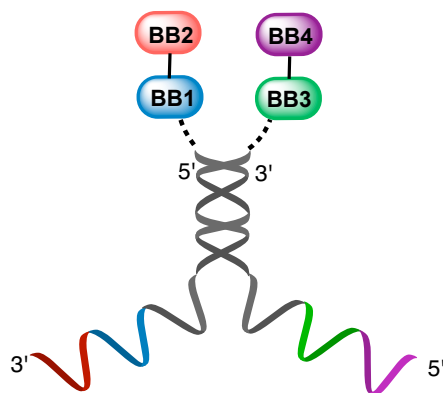


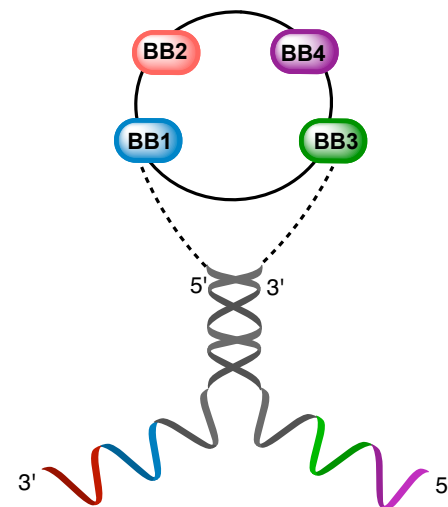
## Project 2: Encoded Self-Assembled Chemical (ESAC) Libraries for Macrocycles



ESAC 2+1



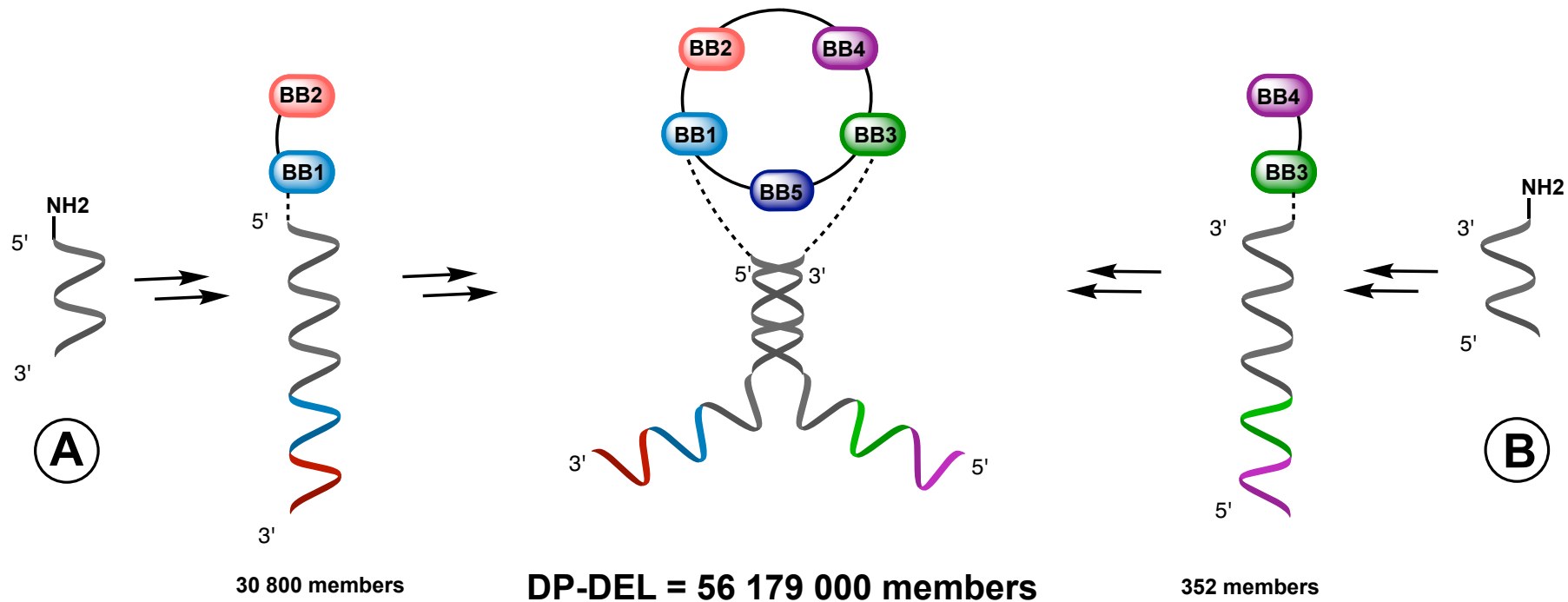
Large Encoding Design  
(LED)



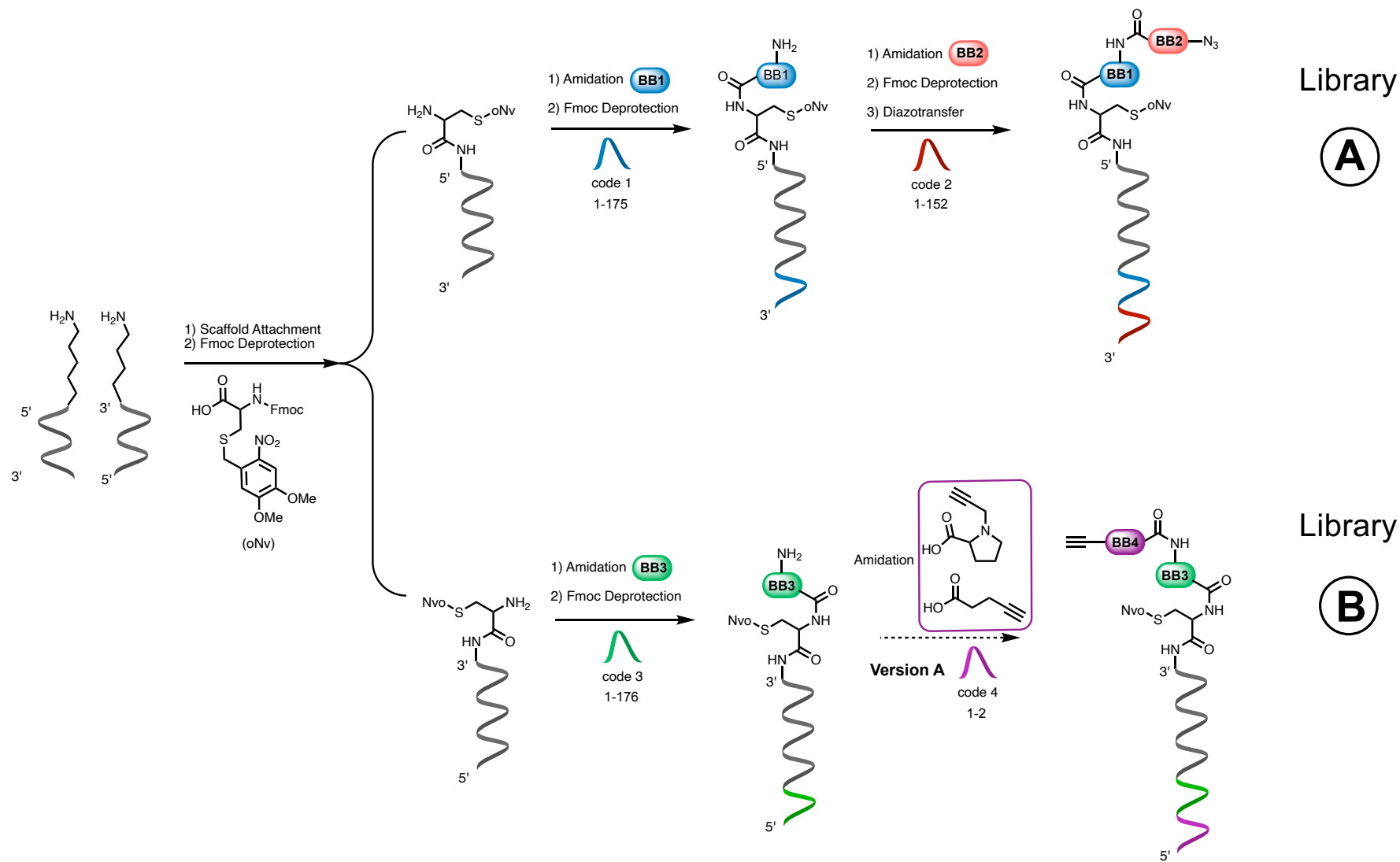
LED Linked

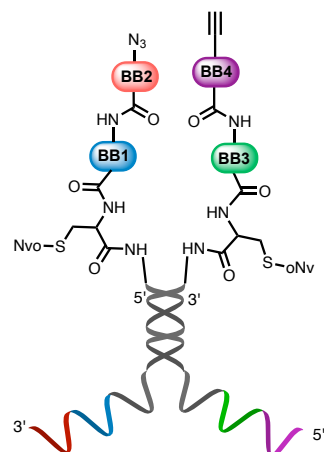
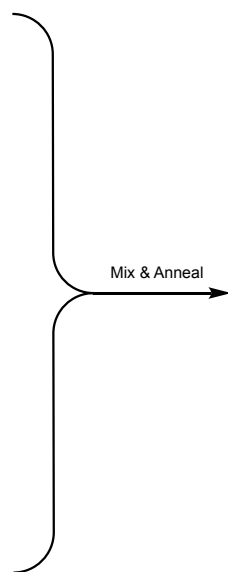
Plais, L., et al. (2022). Chemical Science **13**(4): 967-974.  
Bassi, G., et al. (2020) Advanced Science **7**(22): 2001970.

## Project 2: Macrocyclic Peptide ESAC

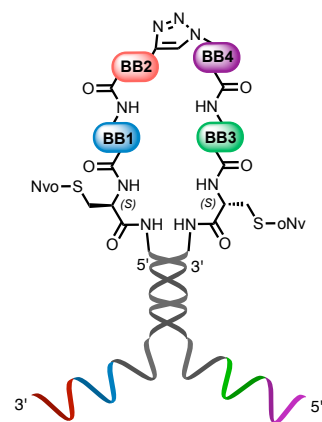


- ✓ High quality macrocyclic compounds
- ✓ Utilize novel Large Encoding Design

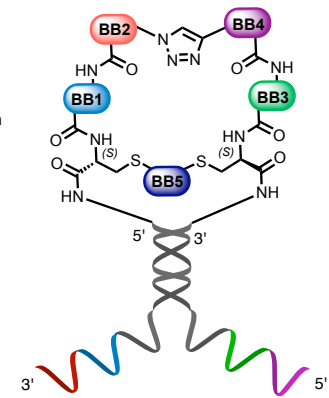


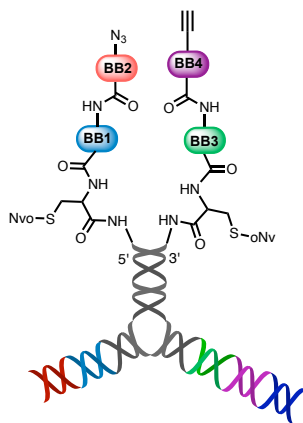
**A****B**

(Part of Library)  
Click Reaction

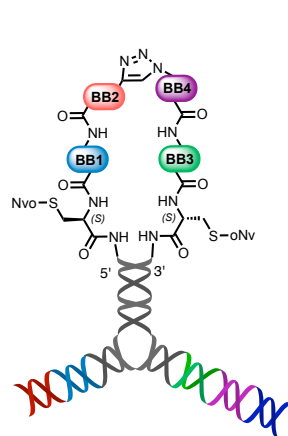


1) oNv deprotection  
in-situ oxidation  
(Part of library)  
2) Reduce disulfide  
3) S<sub>N</sub>2

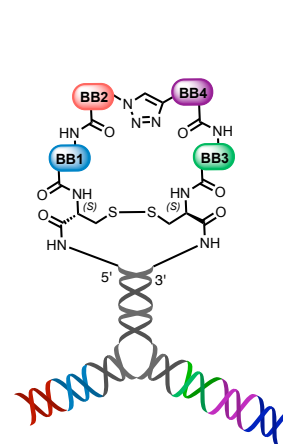




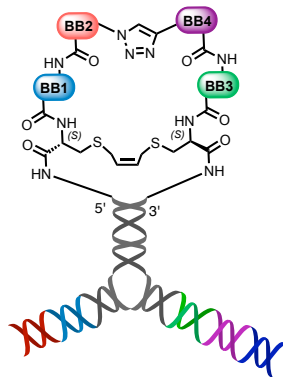
**Version 1**



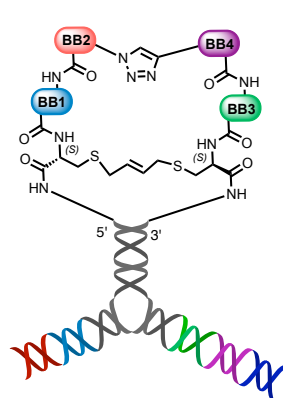
**Version 2**



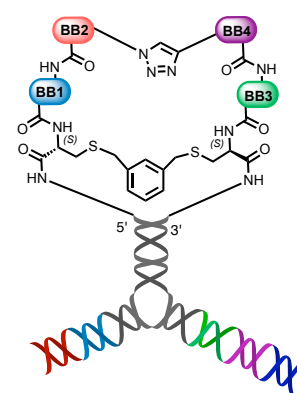
**Version 3**



**Version 4**



**Version 5**



**Version 6**

<b>BB1</b>	175 Amino acids
<b>BB2</b>	152 Amino acids
<b>BB3</b>	176 Amino acids
<b>BB4</b>	2 Alkynes
<b>BB5</b>	6 Cyclization versions

# Acknowledgements

**Priv.-Doz. Dr. Jörg Scheuermann**

**Dr. Michelle Keller**

**Dr. Andreas Gloger**

**Dr. Louise Plais**

**Kristina Schira**

**Dr. Giulia Assoni**

**Alice Lessing**

**Adriano Martinelli**

**Shuting Zhong**

**Junyu Cai**

**Kilian Jobin**

**Bastien Dietschi**

**Timon Gradinger**

