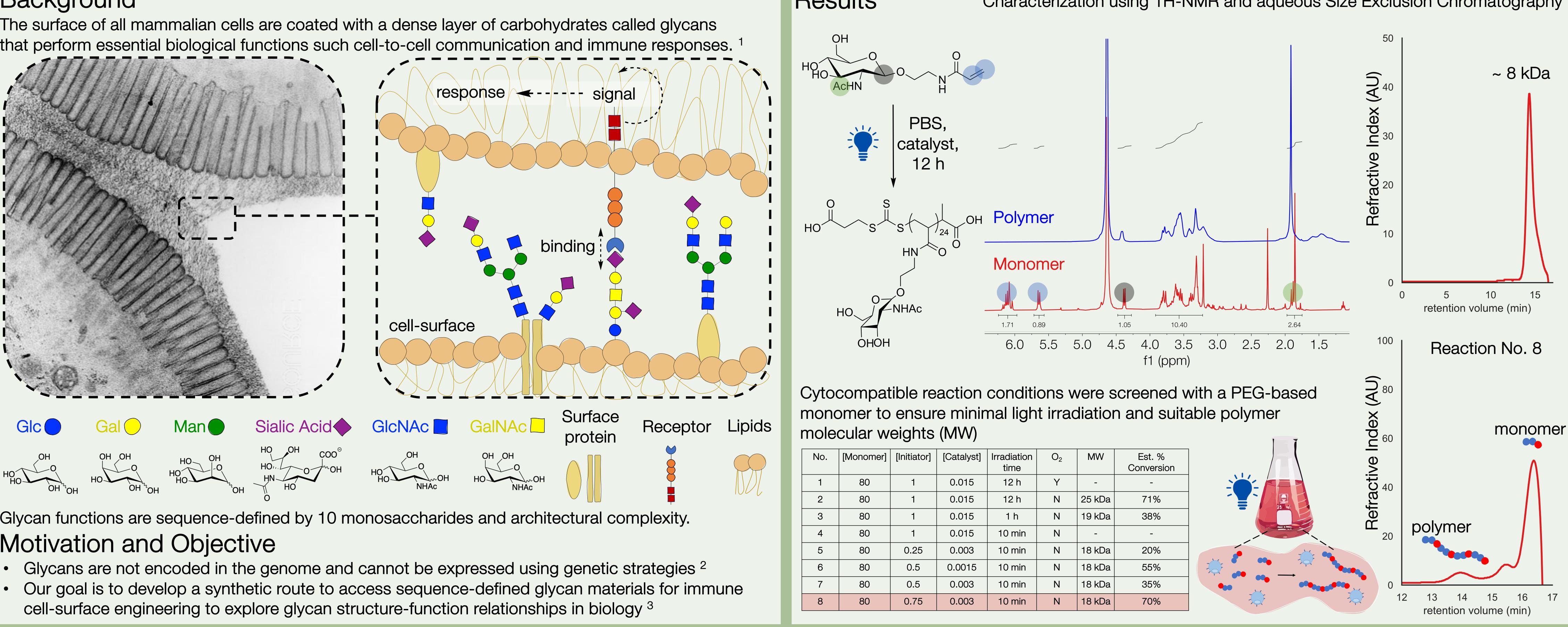
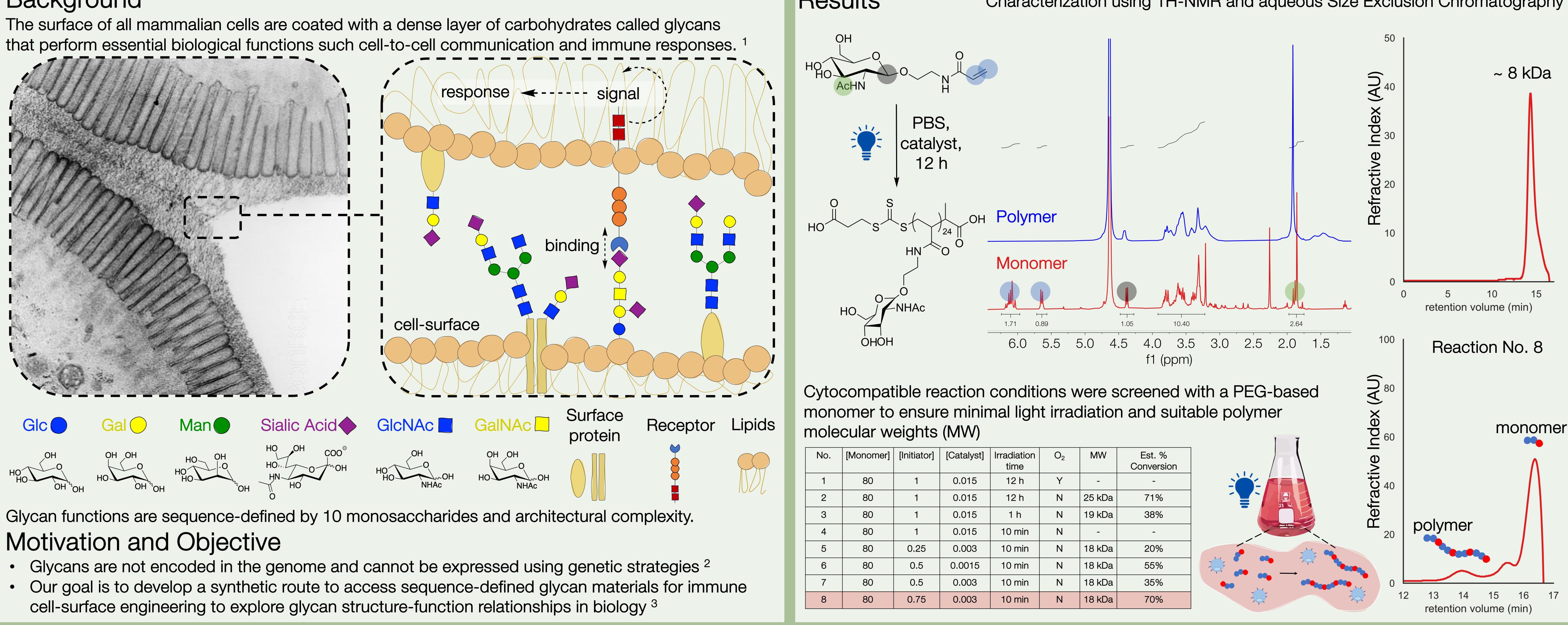


# Carbohydrate Polymers for Cell-Surface Engineering O.Mann-Delany,<sup>1</sup> H. Tran, <sup>1,4,5</sup> L. J. Edgar<sup>1-3</sup>

<sup>1</sup>Department of Chemistry, University of Toronto <sup>4</sup>Department of Toro

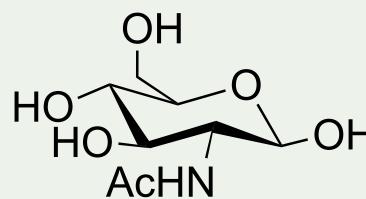
# Background



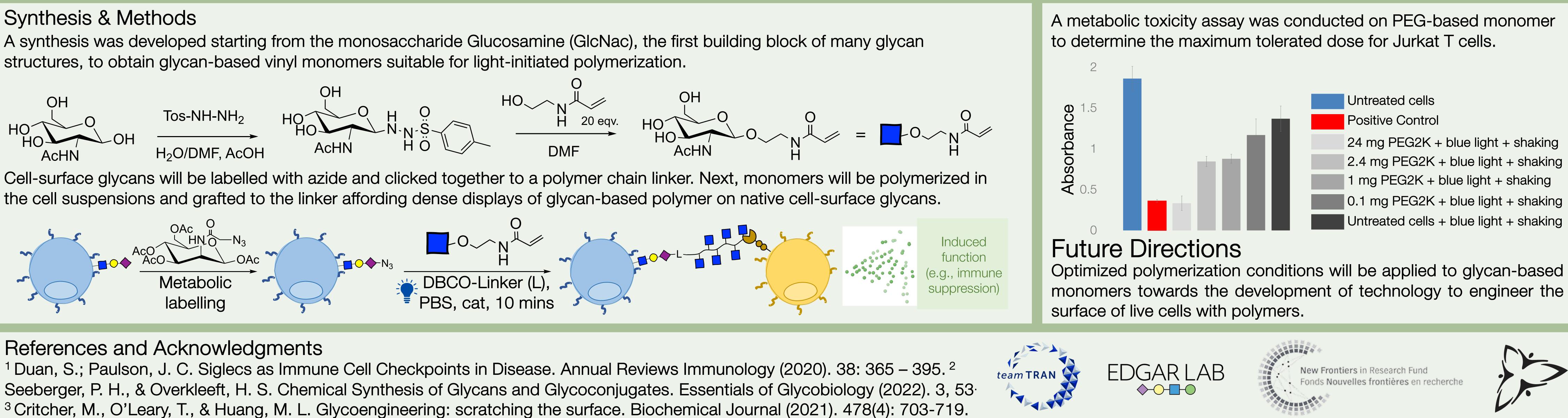


## Synthesis & Methods

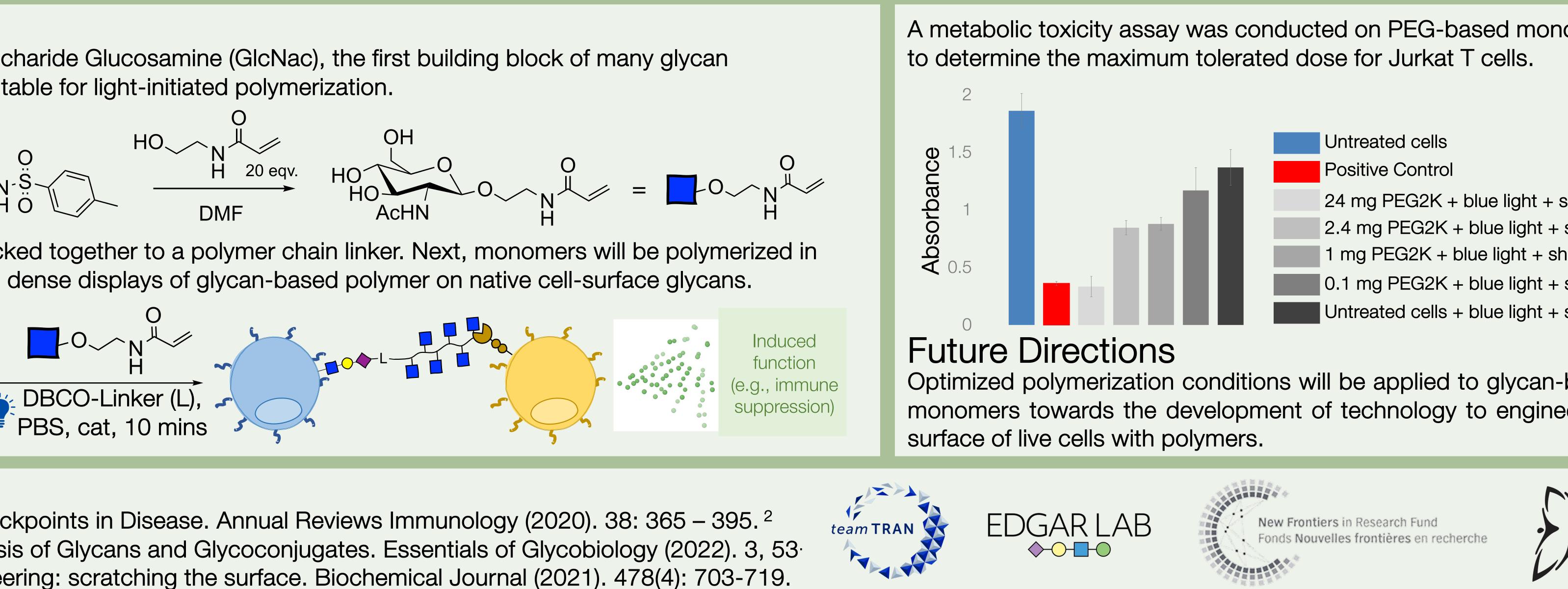
structures, to obtain glycan-based vinyl monomers suitable for light-initiated polymerization.



Tos-NH-NH<sub>2</sub>



#### References and Acknowledgments



### Results

### Characterization using 1H-NMR and aqueous Size Exclusion Chromatography

No.	[Monomer]	[Initiator]	[Catalyst]	Irradiation time	O <sub>2</sub>	MW	Est. % Conversion
1	80	1	0.015	12 h	Υ	-	-
2	80	1	0.015	12 h	Ν	25 kDa	71%
3	80	1	0.015	1 h	Ν	19 kDa	38%
4	80	1	0.015	10 min	Ν	-	-
5	80	0.25	0.003	10 min	Ν	18 kDa	20%
6	80	0.5	0.0015	10 min	Ν	18 kDa	55%
7	80	0.5	0.003	10 min	Ν	18 kDa	35%
8	80	0.75	0.003	10 min	Ν	18 kDa	70%

24 mg PEG2K + blue light + shaking 2.4 mg PEG2K + blue light + shaking 1 mg PEG2K + blue light + shaking 0.1 mg PEG2K + blue light + shaking Untreated cells + blue light + shaking