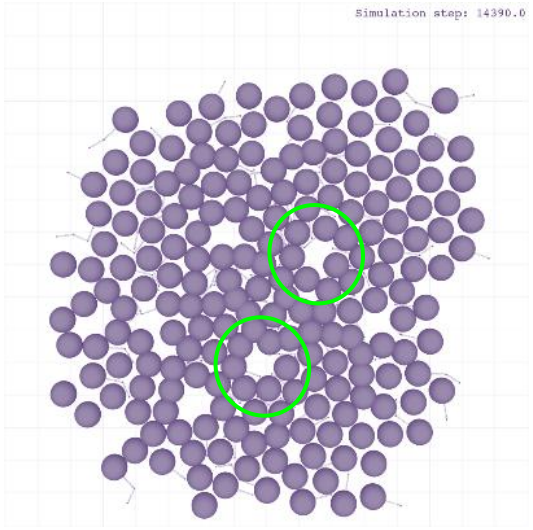


Well-defined Homer-Wright rosettes

Marked as green circles

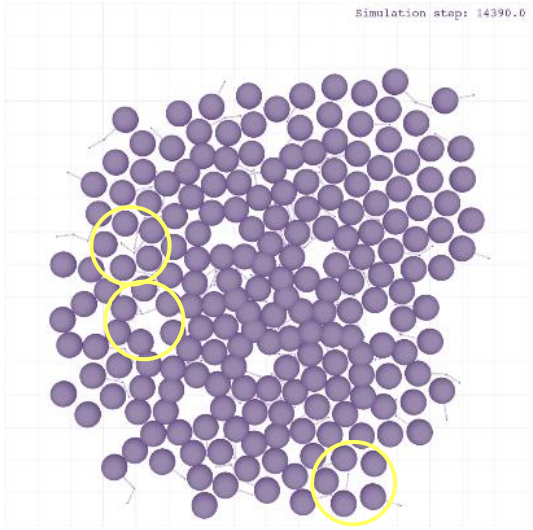
- At least one neurite inside

and

- Circular structure

and/or

- Contour cells attached to each other



Poorly-defined Homer-Wright rosettes

Marked as yellow circles

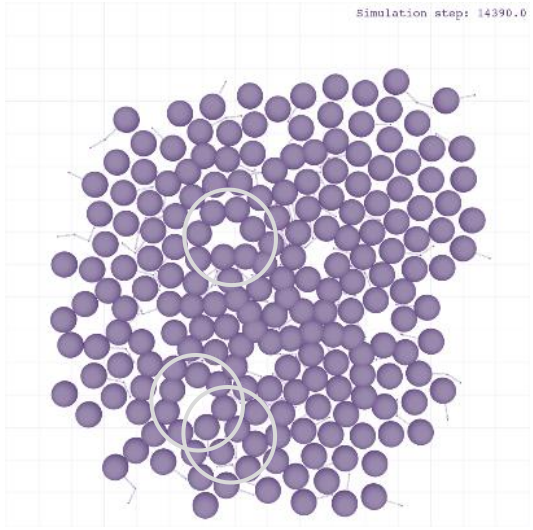
- At least one neurite inside

and

- Compromised circular structure

and/or

- Contour cells not attached



True ependymal rosettes

Marked as gray circles

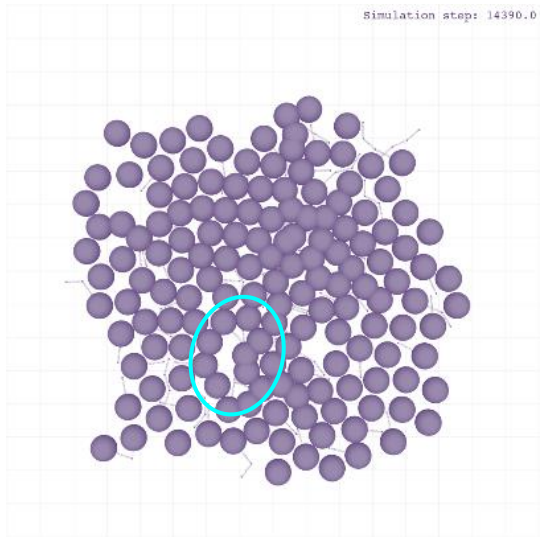
- No neurites inside

and

- Circular structure

and/or

- Contour cells attached to each other



Neurocyticrosettes

Marked as blue ellipses

- At least one neurite inside

and

- Large and elongated structure

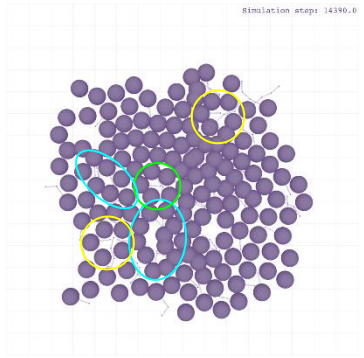
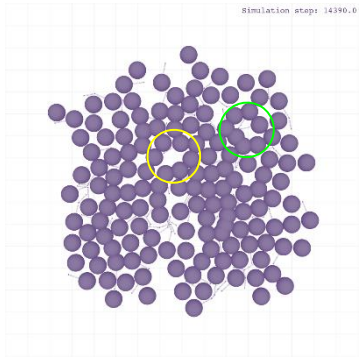
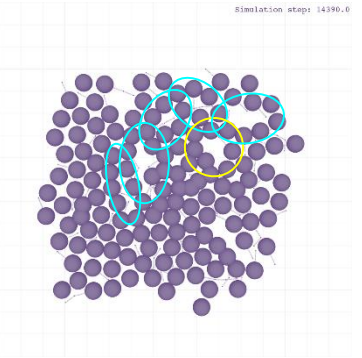
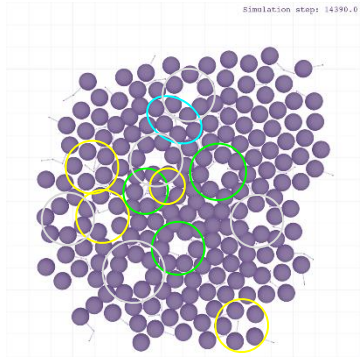
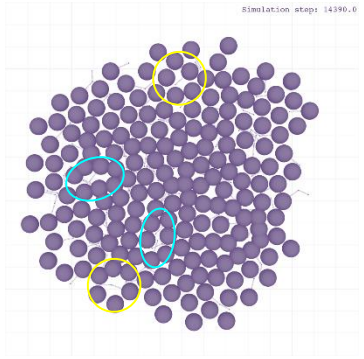
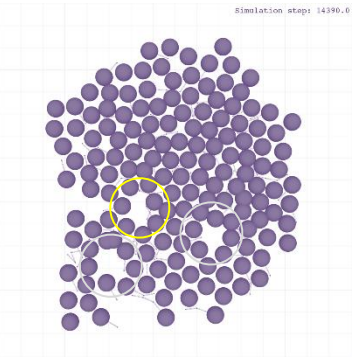
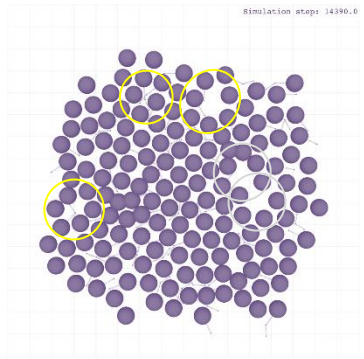
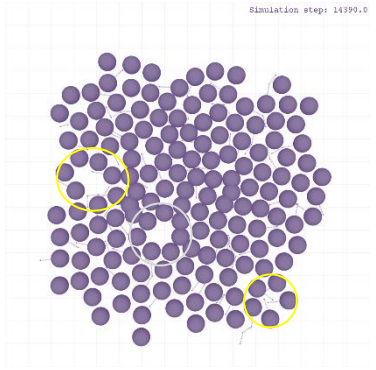
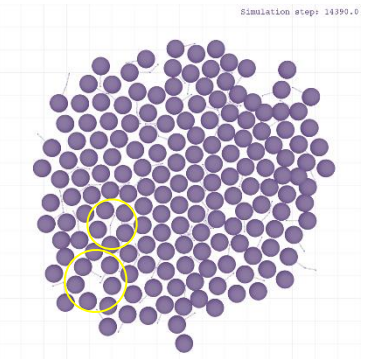
and/or

- Contour cells attached to each other

Rosette formation

Cell mechanics parameter sweep

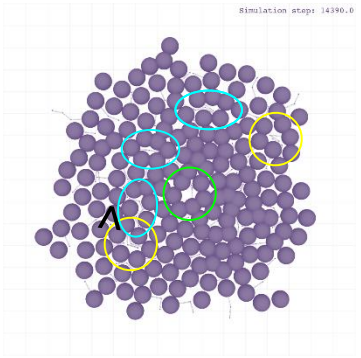
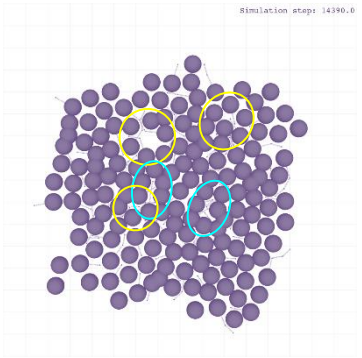
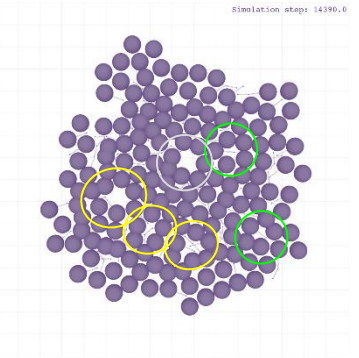
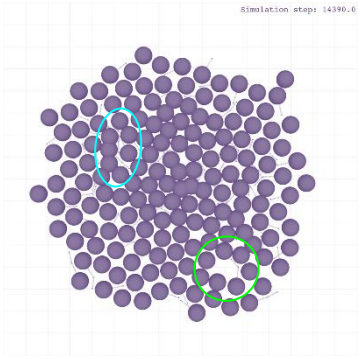
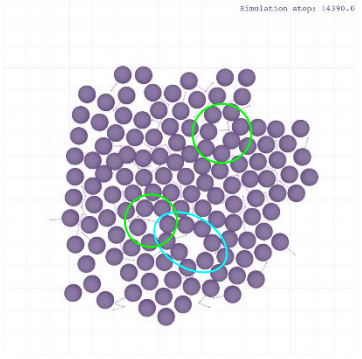
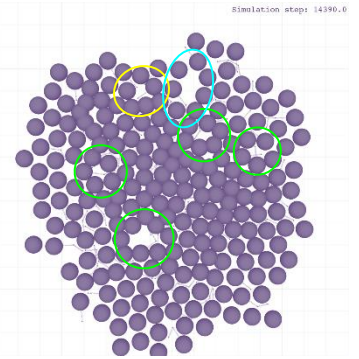
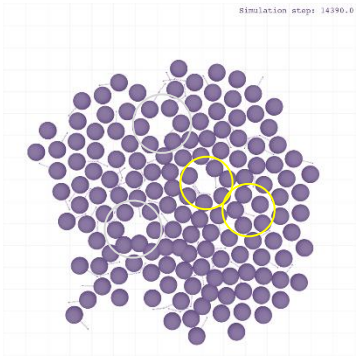
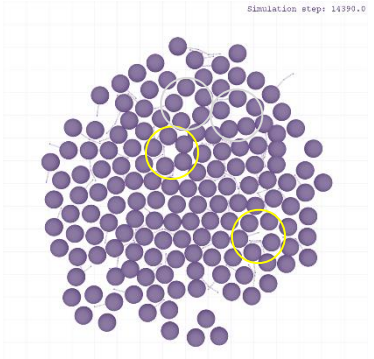
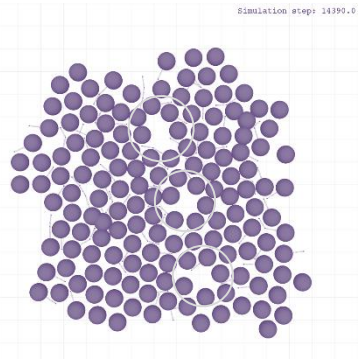
- **Neurite-neurite interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Neurite-cell interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

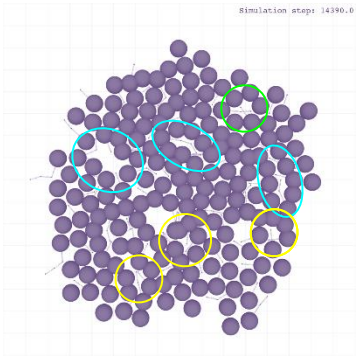
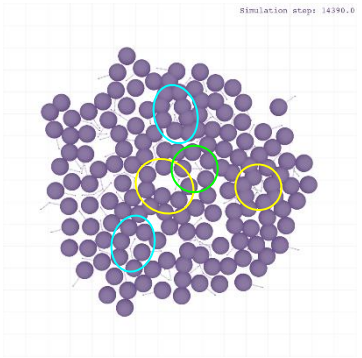
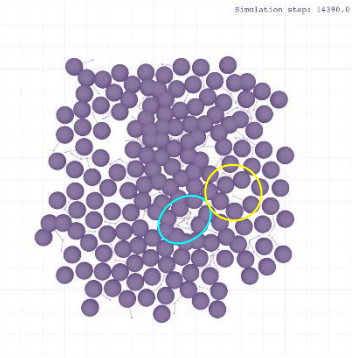
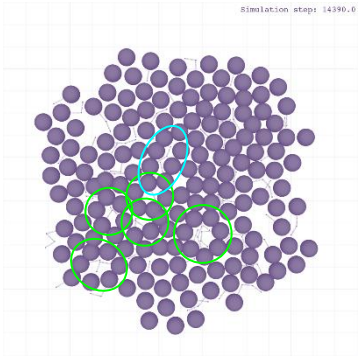
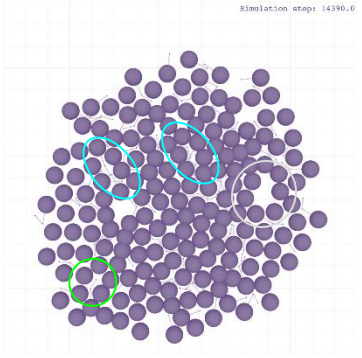
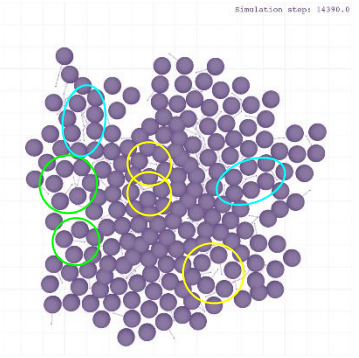
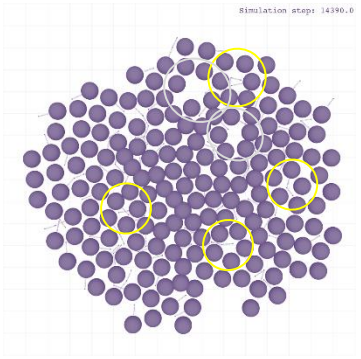
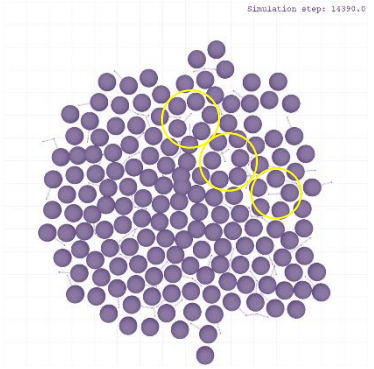
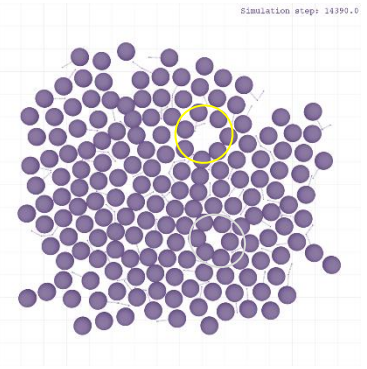
- **Neurite-neurite interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Neurite-cell interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

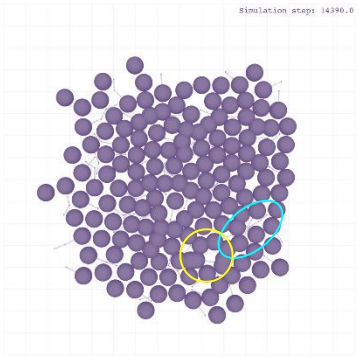
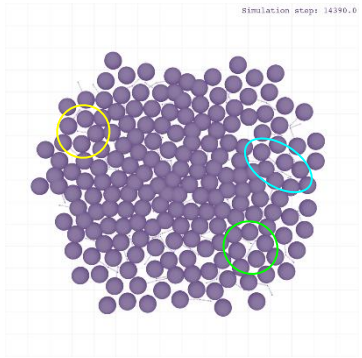
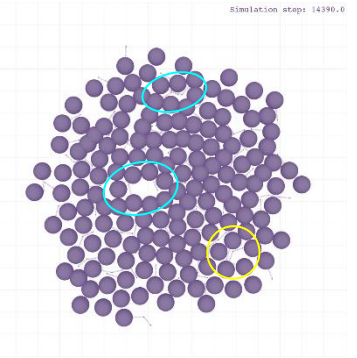
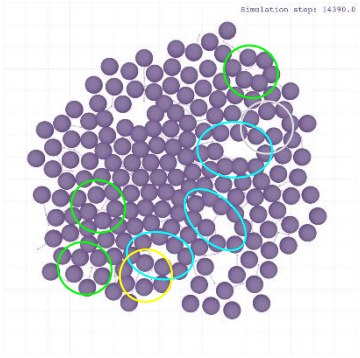
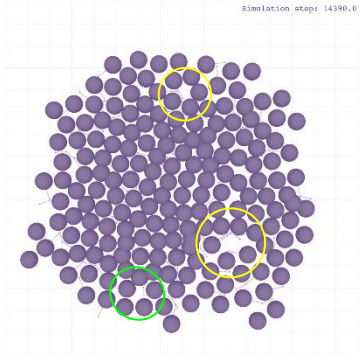
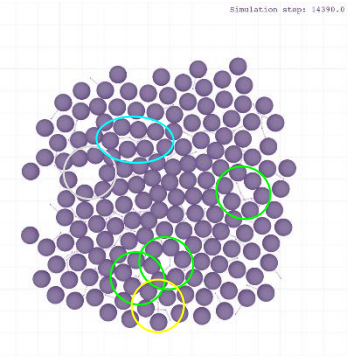
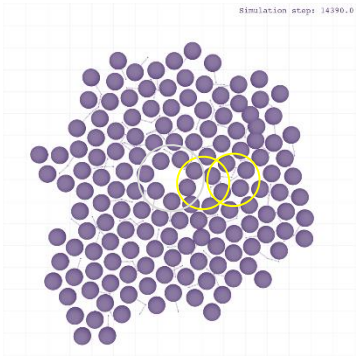
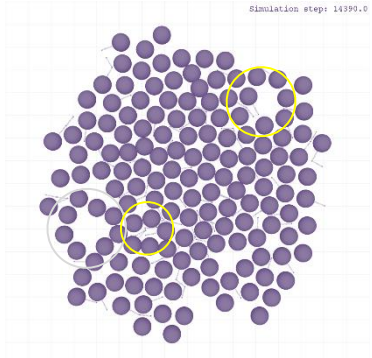
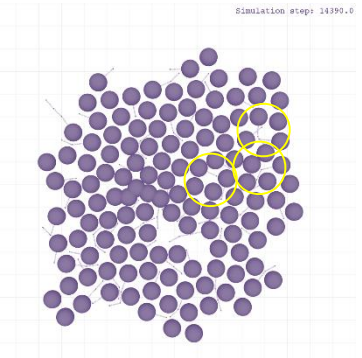
- **Neurite-neurite interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Neurite-cell interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

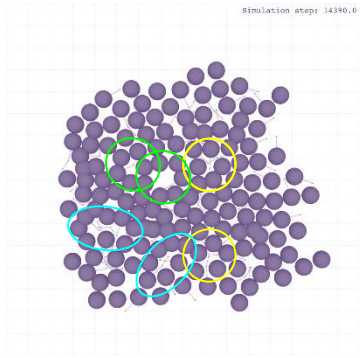
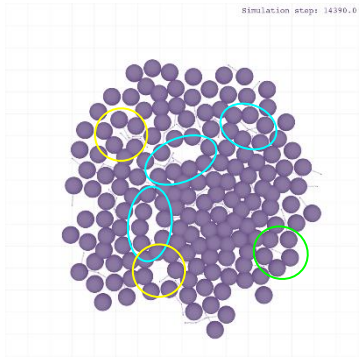
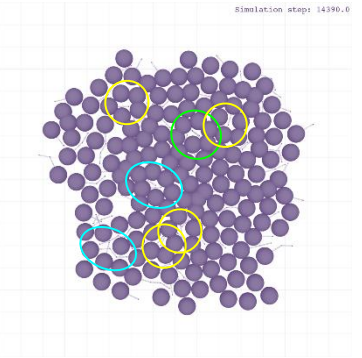
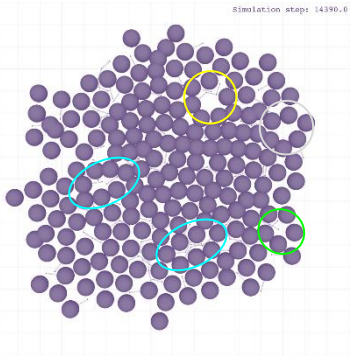
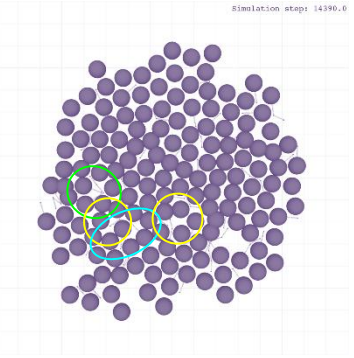
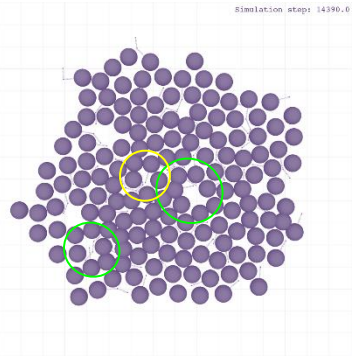
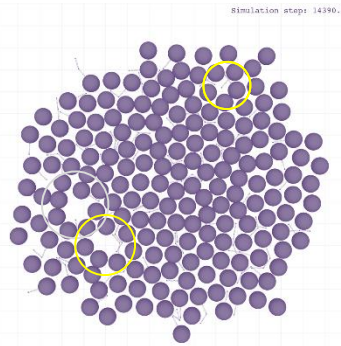
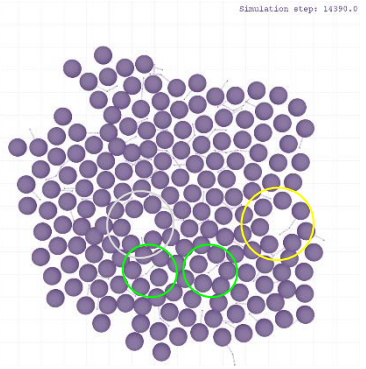
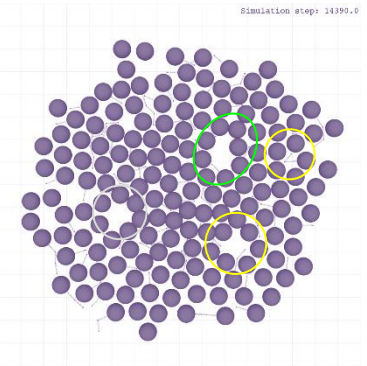
- **Neurite-neurite interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Neurite-cell interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

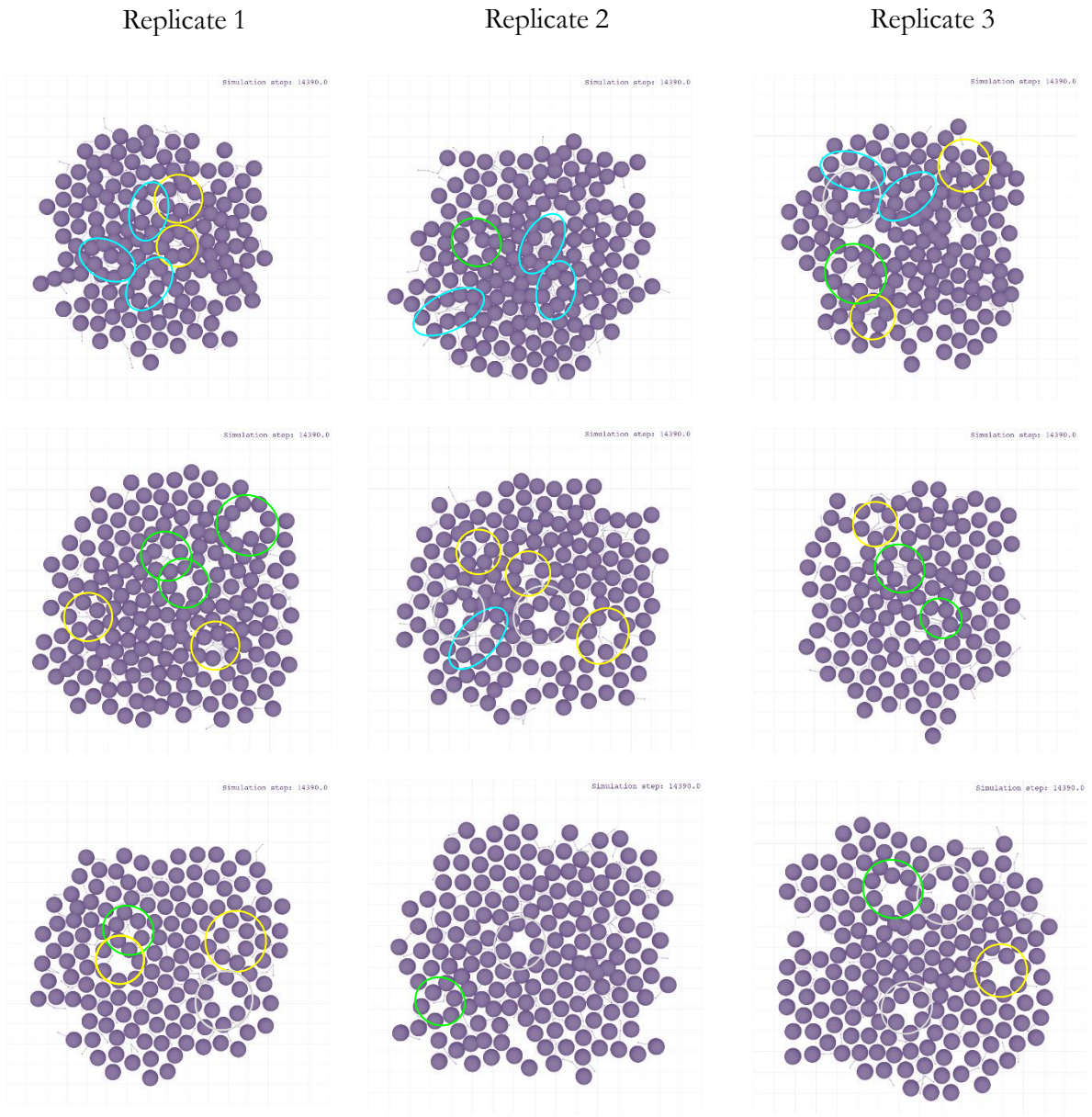
- **Neurite-neurite interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Neurite-cell interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

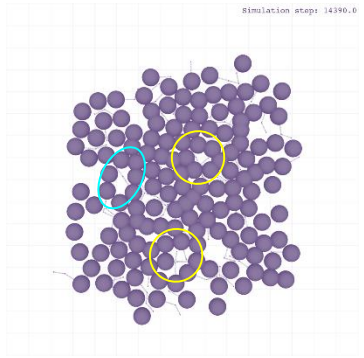
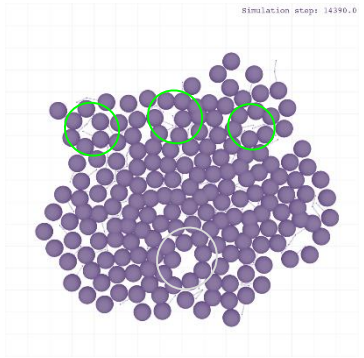
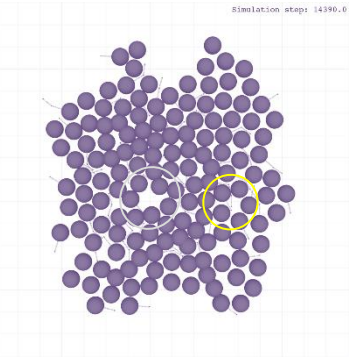
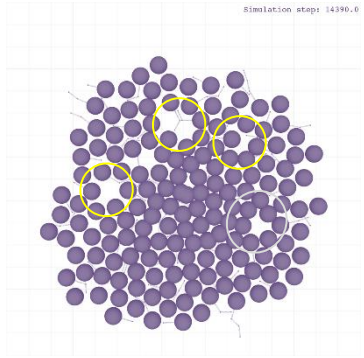
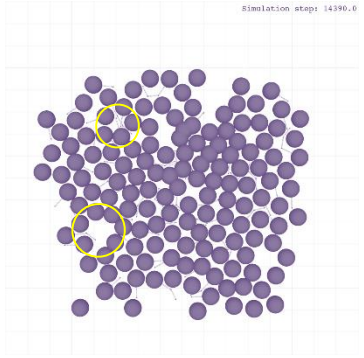
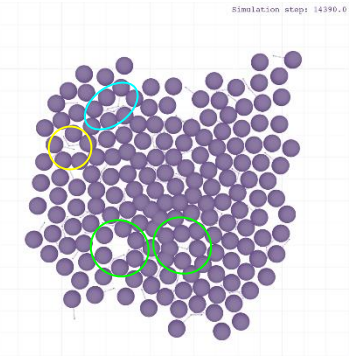
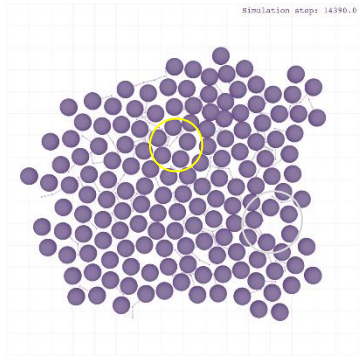
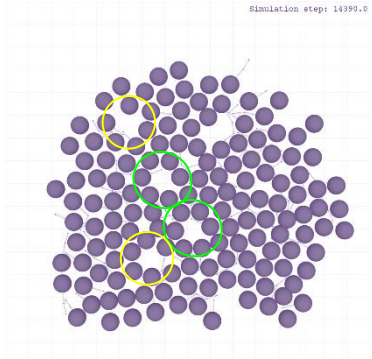
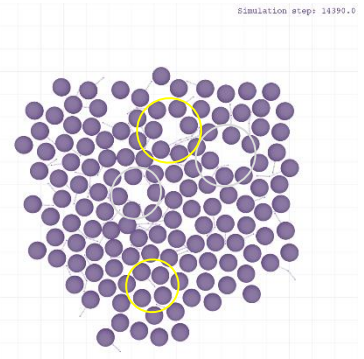
- **Neurite-neurite interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Neurite-cell interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case



Rosette formation

Cell mechanics parameter sweep

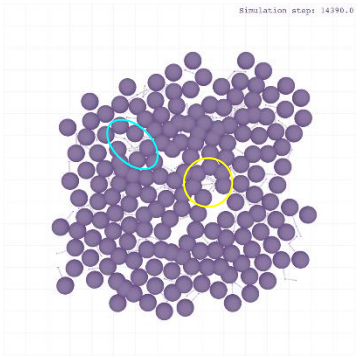
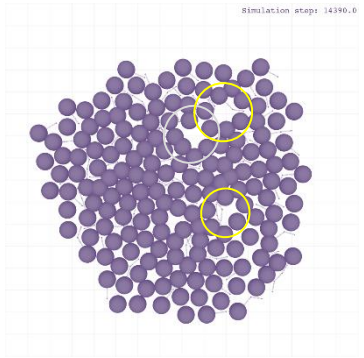
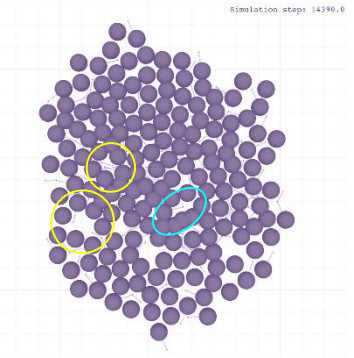
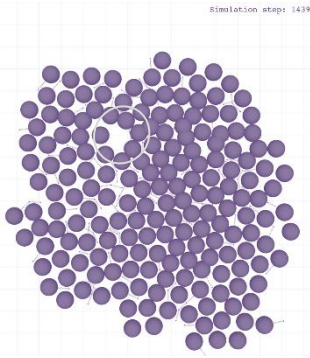
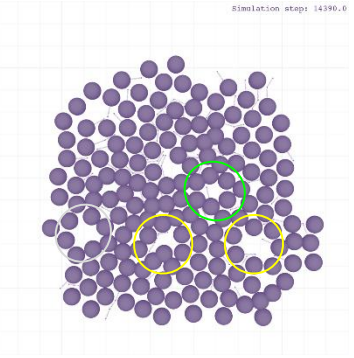
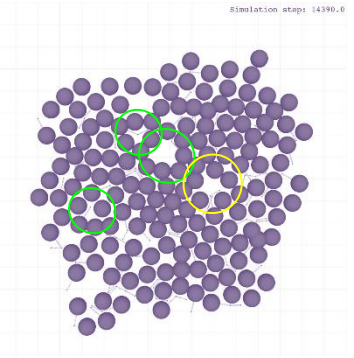
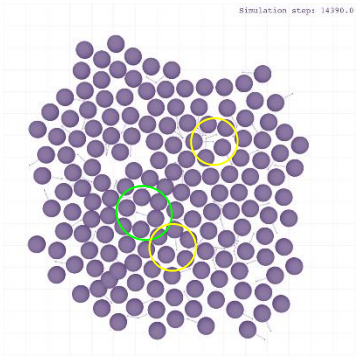
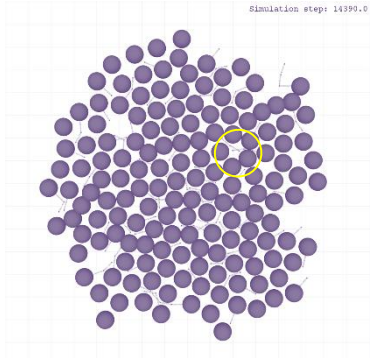
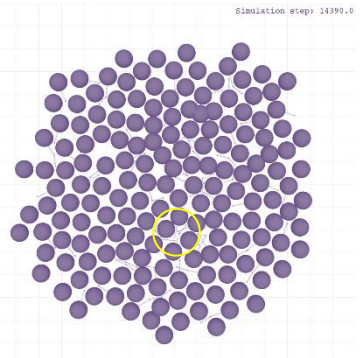
- **Neurite-neurite interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Neurite-cell interactions:**
  - Low repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 15.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

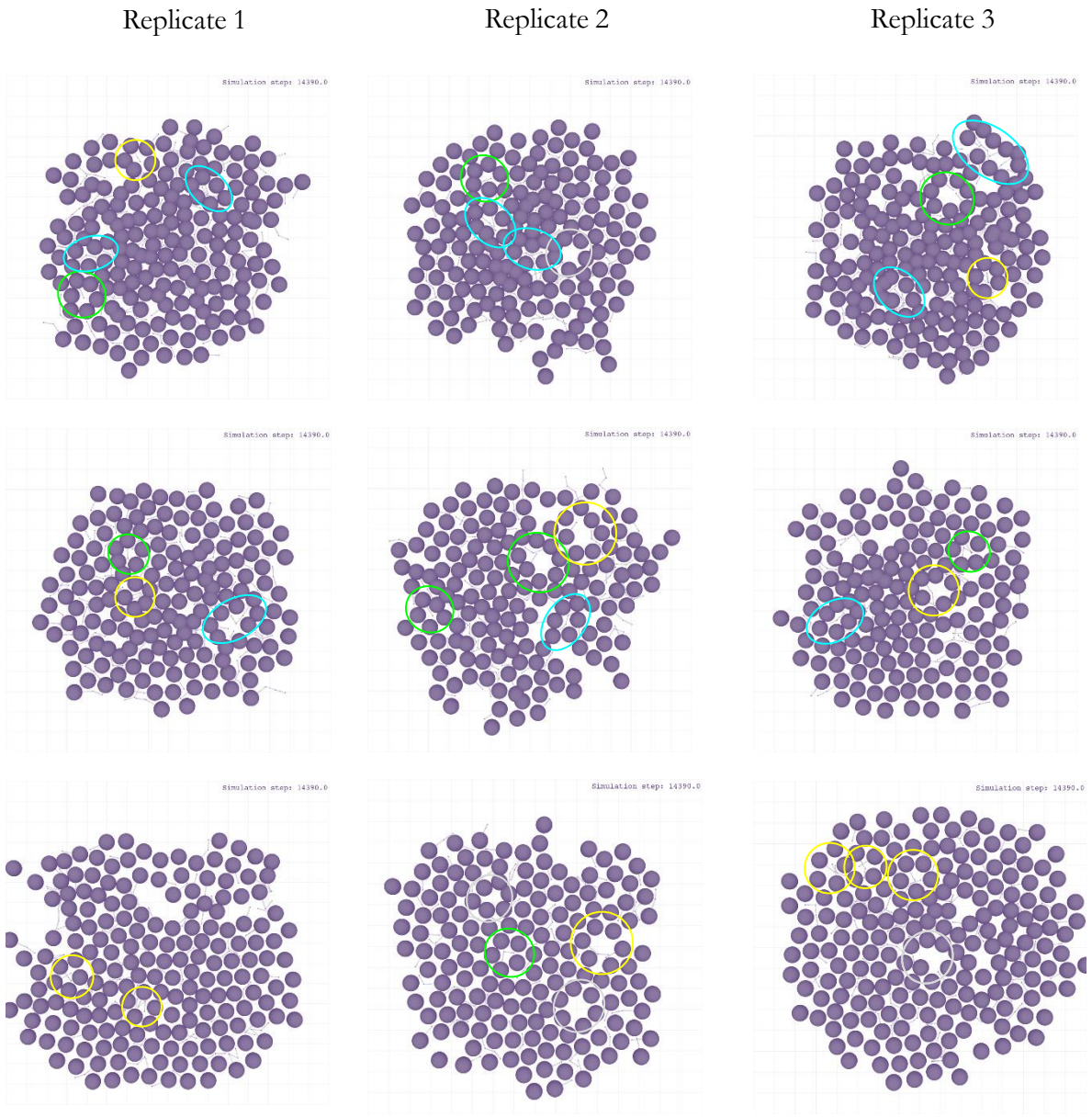
Rosette formation

Cell mechanics parameter sweep

- **Neurite-neurite interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Neurite-cell interactions:**
  - Balanced repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 25.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case

	Replicate 1	Replicate 2	Replicate 3
Low cell-cell repulsion (cca=5.0, ccr=15.0)			
Balanced cell-cell adhesion/repulsion (cca=5.0, ccr=25.0)			
High cell-cell repulsion (cca=5.0, ccr=50.0)			

Rosette formation

Cell mechanics parameter sweep

- **Neurite-neurite interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Neurite-cell interactions:**
  - High repulsion
  - Adhesion coefficient: 5.0
  - Repulsion coefficient: 50.0
- **Cell-cell interactions:**
  - Variable
  - See row label for each case