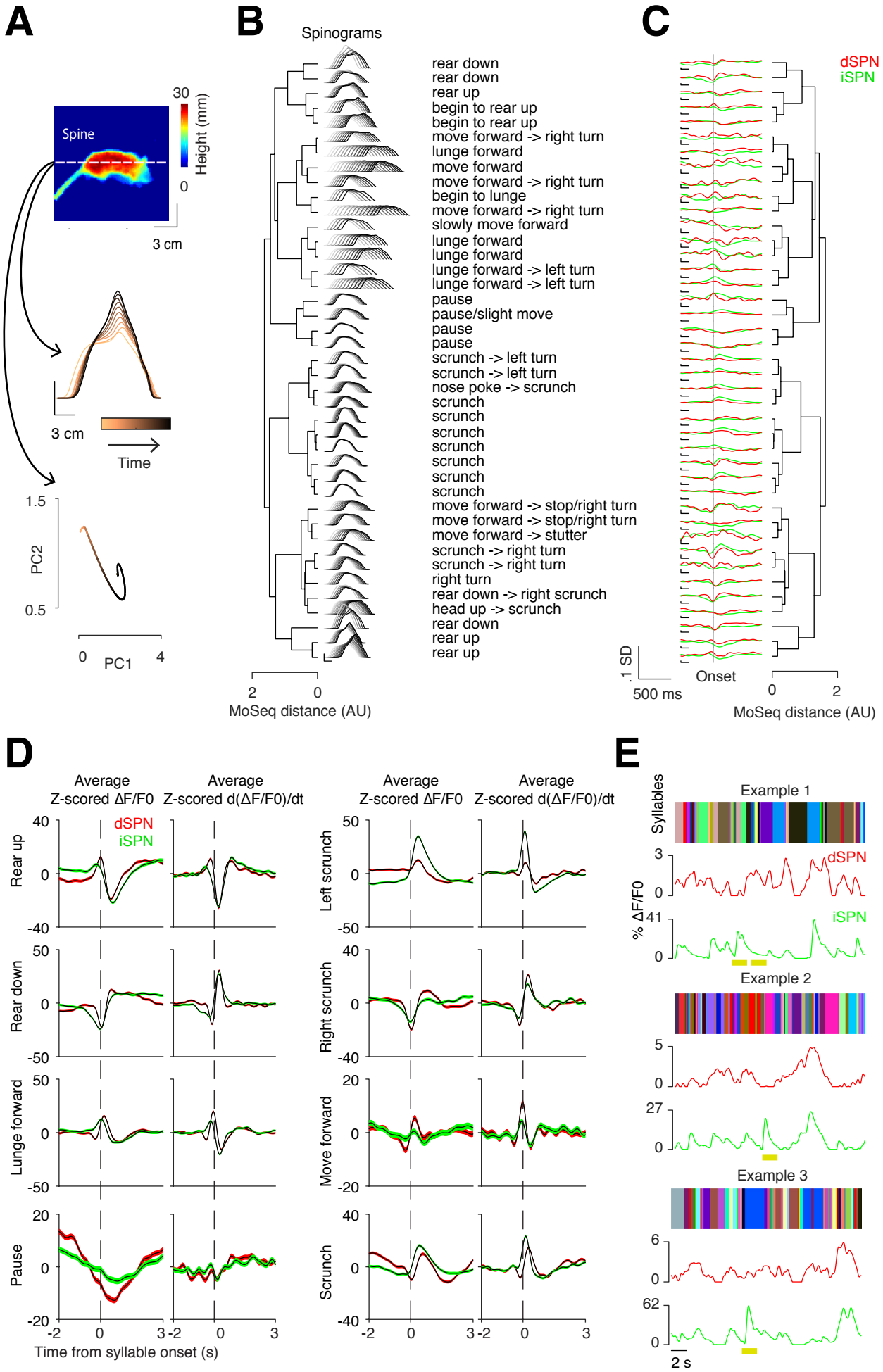
A
Spine
30
Height (mm)
0
3 cm
3 cm
Time
1.5
PC2
0.5
0
PC1
4
B
Spinograms
rear down
rear down
rear up
begin to rear up
begin to rear up
move forward -> right turn
lunge forward
move forward
move forward -> right turn
begin to lunge
move forward -> right turn
slowly move forward
lunge forward
lunge forward
lunge forward -> left turn
lunge forward -> left turn
pause
pause/slight move
pause
pause
scrunch -> left turn
scrunch -> left turn
nose poke -> scrunch
scrunch
scrunch
scrunch
scrunch
scrunch
scrunch
scrunch
move forward -> stop/right turn
move forward -> stop/right turn
move forward -> stutter
scrunch -> right turn
scrunch -> right turn
right turn
rear down -> right scrunch
head up -> scrunch
rear down
rear up
rear up
2
0
MoSeq distance (AU)
C
dSPN
iSPN
.1 SD
500 ms
Onset
0
2
MoSeq distance (AU)
D
Average Z-scored ΔF/F0
Average Z-scored d(ΔF/F0)/dt
Average Z-scored ΔF/F0
Average Z-scored d(ΔF/F0)/dt
dSPN
iSPN
Rear up
Rear down
Lunge forward
Pause
Left scrunch
Right scrunch
Move forward
Scrunch
Time from syllable onset (s)
E
Syllables
Example 1
% ΔF/F0
dSPN
iSPN
Example 2
Example 3
2 s