

Vladimir Markovnikov

Alkenes are the very best, their reactions are insane
Alcohols are no match, and neither are alkanes
Electrophiles hit alkenes, without a lot of pain
Use HBr and HCl to make haloalkanes

But then I get confused as to what we're going to see
Which carbon gets which atom? Call it regiochemistry
I hear there's a brilliant man who gave us clarity
What's his name? What's his name? I have to find the key

Well the word got around, they said "this guys insane, man!"
From the 1800's, a Russian dude they say, man.
Got his education and didn't forget from whence he came, man
The world's got to know his name. What's his name, man?

Vladimir Markovnikov
My name is Vladimir Markovnikov
And there's just one thing I did explain
Which carbon gets, the halogen?

The key to understanding products of acid halogenation
Is that a carbocation is formed by the HX protonation

Stabilize the plus charge with overlapping orbitalization
The official term of course, is hyperconjugation

The more stable cation forms of lower energy
The halide ion comes in and reacts there naturally
It's the one with more carbons, that's maybe two or three
So X is on more substituted carbons don't you see

Vladimir Markovnikov
My name is Vladimir Markovnikov
And there's just one thing that I did explain
Which carbon gets, the halogen?

So don't be throwing away my rule
Don't be throwing away my rule
Hey yo, its not that convoluted
Halogen on the carbon that's more substituted
So don't be throwing away my rule

Vladimir Markovnikov
My name is Vladimir Markovnikov
And there's just one thing I did explain
Which carbon gets, the halogen.

So don't be throwing away my rule
Don't be throwing away my rule
Hey yo, its not that convoluted
Halogen on the carbon that's more substituted
So don't be throwing away my rule

Vladimir Vasilyevich Markovnikov



Oh Lord, Make Me A Doctor With A Mercedes-Benz

**Oh Lord, make me a doctor with a Mercedes-Benz
My friends are all prelaw, I must make amends.
Worked hard in organic, never thought it would end.
So Lord, make me a doctor, with a Mercedes-Benz.**

**Oh Lord, won't you give me an "A" on the test,
I have to show med-schools that I am the best.
Tried hard all semester, the TA says I'm a pest,
So Lord, won't you give me an "A" on the test.**

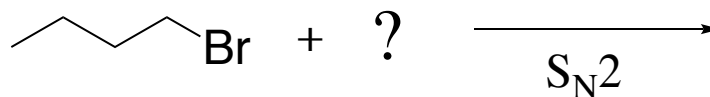
**Oh Lord, won't you give me a high MCAT score.
My friends all got 520's, I have to get more.
I went to Kaplan, oh man what a bore,
So Lord, won't you give me a high MCAT score.**

**Oh Lord, won't you get me into Johns Hopkins U.
Baylor would be nice, I'd like an interview
O.K. let's be serious, A&M will do.
So Lord, won't you get me into TAMU.**

**Oh Lord, make me a doctor with a Mercedes-Benz
My friends are all prelaw, I must make amends.
Worked hard in organic, never thought it would end.
So Lord, make me a doctor, with a Mercedes-Benz.**



Shape of S_N2



The club ain't the best place to find nucleophiles
So the lab is where I go
Me and my friends in solvent
Moving fast but reacting slow
Come over and start up a reaction with just me
And trust me I'll give it a chance now
Let's react, stop, put your charge over here
And then we start to react, and now I'm singing like
You know I want to make a bond
Your charge was handmade for a reagent like me
Come on now, follow my lead
I'm an electrophile, don't mind me
Say now let's not talk too much
Get through solvent and put your electrons on me
Come on now, follow my lead,
Come, come on now, follow my lead

I'm attracted to the charge of you
We push and pull like charges do
Although my orbitals are falling too
Come on let's get bonding
Transition state is coming true
Time to finish the S_N2
Creating a bond brand new
Come on let's get bonding
Oh-I-oh-I-oh-I-oh-I
Come on let's get bonding
Oh-I-oh-I-oh-I-oh-I
Come on let's get bonding
Oh-I-oh-I-oh-I-oh-I
Come on let's get bonding
We need to make a bond brand new
Come on now let's S_N2.

" Don't Stop, Believin'

Just a Houston girl,
Living in a Longhorn world.
She took the premed train
Straight to OChem 1

Just a Plano boy,
Born and raised in full burnt orange,
He took the premed train
Straight to OChem 1

They study in a smoky room,
Smell of vapes and Mountain Dew
For an A they study all night
It goes on and on and on and on

Alkanes to alkynes
Up and down the I-35
Two students studying in the night
Roadmaps, reactions
Living just to pass the final
Will they ever get it right

Working hard to get my grade
Everybody wants an "A"
Trying anything to ace this class
Just one more exam
Some will win, some will lose
I don't want to sing the blues
OChem never seems to end
It goes on and on and on and on

Alkanes to alkynes
Up and down the I-35
Two students studying in the night
Roadmaps, reactions
Living just to pass the final
Will they ever get it right

Don't stop believin'
Hold on to that "A" feelin'
Roadmaps, reactions
Ohohohohohoh

Don't stop believin'
Hold on
Roadmaps, reactions
Ohohohohohoh

Don't stop believin'
Hold on to that "A" feelin'
Roadmaps, reactions
Ohohohohohoh

We All Love Organic Chemistry

In the town where I was born,
Lived a man of chemistry.
And he told us of his life
In the organic laboratory.

Making molecules to fight disease
Coming up with their syntheses.
So we sit in 320N
Learning organic chemistry.

Refrain:

*We all love organic chemistry
Synthetic chemistry
Molecules with "C"
We all love organic chemistry
Synthetic chemistry
Molecules with "C"*

All our friends think we're a bore
Our grade point averages begin with 4.
But we await graduation day
To work in lab for meager pay.

But its OK, who else can say
They're curing cancer or fighting AIDS.
We hope that you in 320N
Respect organic chemistry

Refrain:

*We all love organic chemistry
Synthetic chemistry
Molecules with "C"
We all love organic chemistry
Synthetic chemistry
Molecules with "C"*