

Elektrofyzologie neuronů a neuronálních sítí

Změny vlivem neuropsychiatrických onemocnění a farmak

doc. MUDr. Markéta Bébarová, Ph.D.

Laboratoř buněčné elektrofyzologie

Fyziologický ústav, Lékařská fakulta, Masarykova univerzita

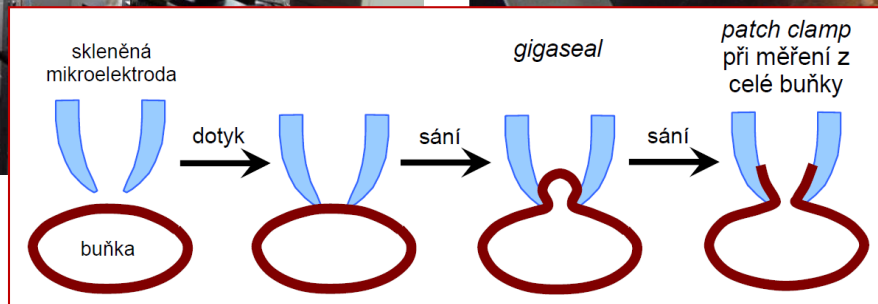
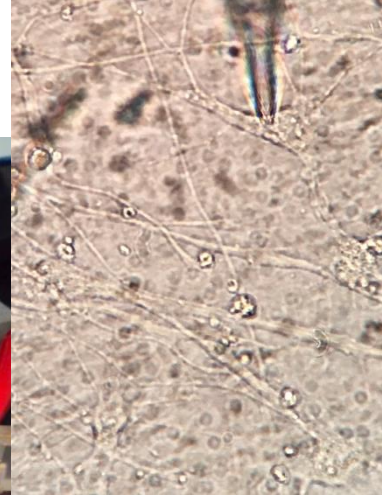
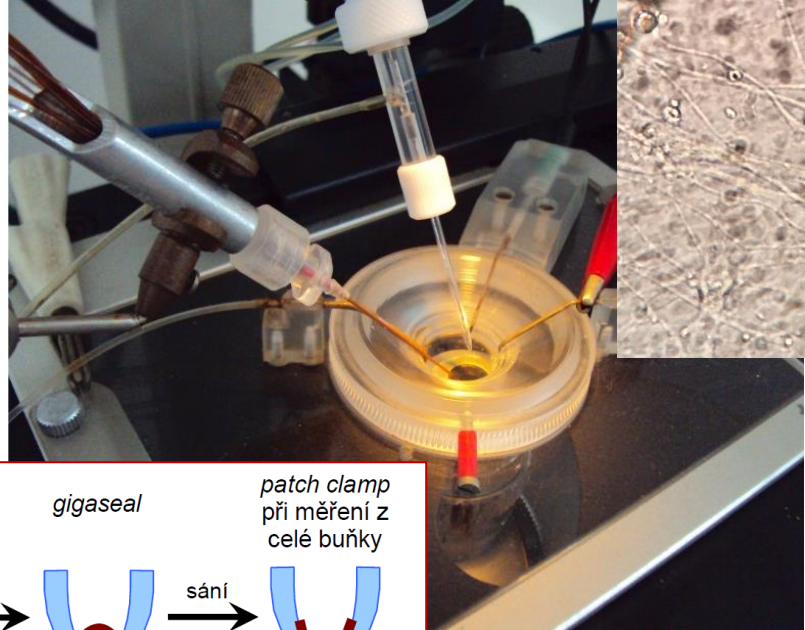
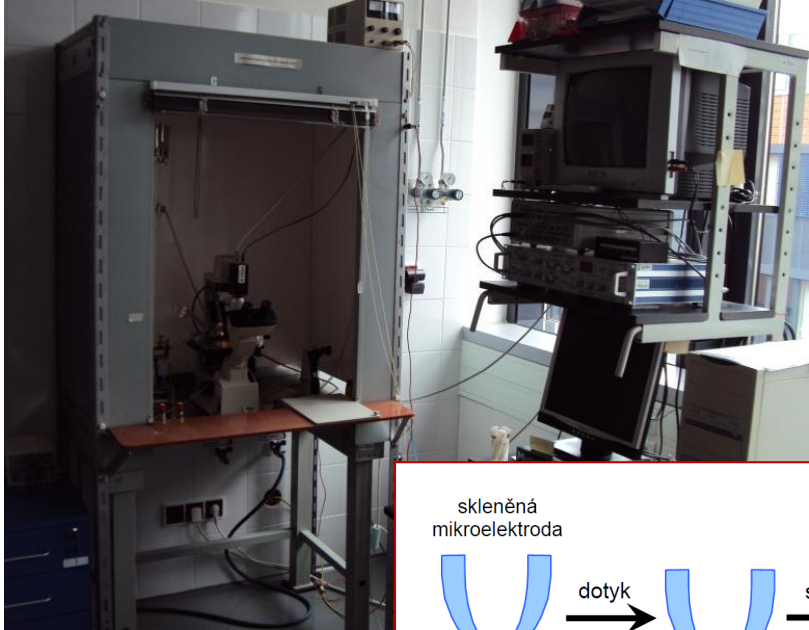
Kamenice 5 (pavilon A20), 625 00 Brno

tel.: 549 49 3147

e-mail: mbebar@med.muni.cz

Metodiky studia elektrofyziologie neuronů

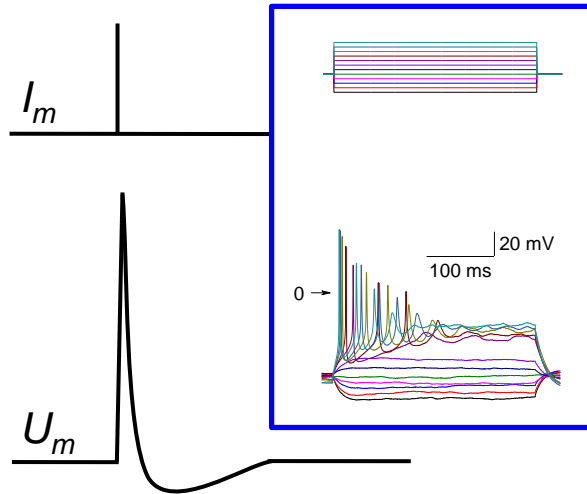
→ *whole cell patch clamp*



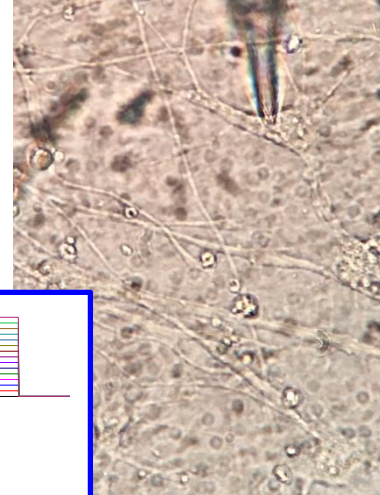
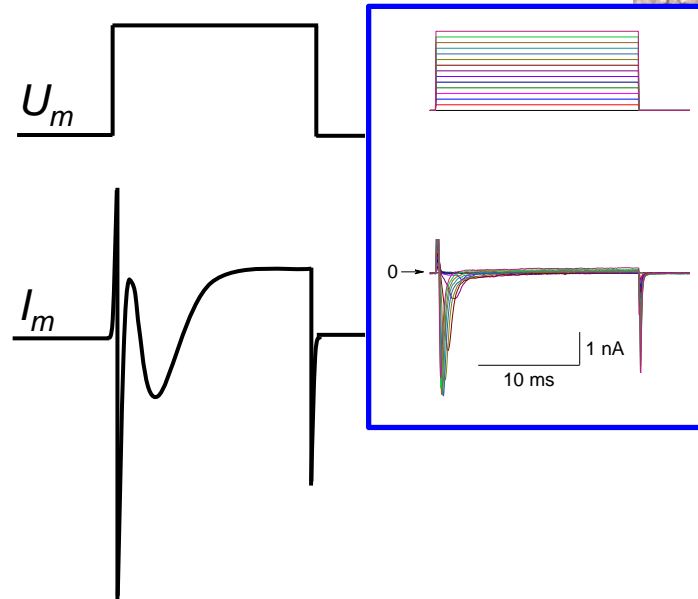
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→ *whole cell patch clamp*

metoda vnuceného proudu
(*current clamp*)

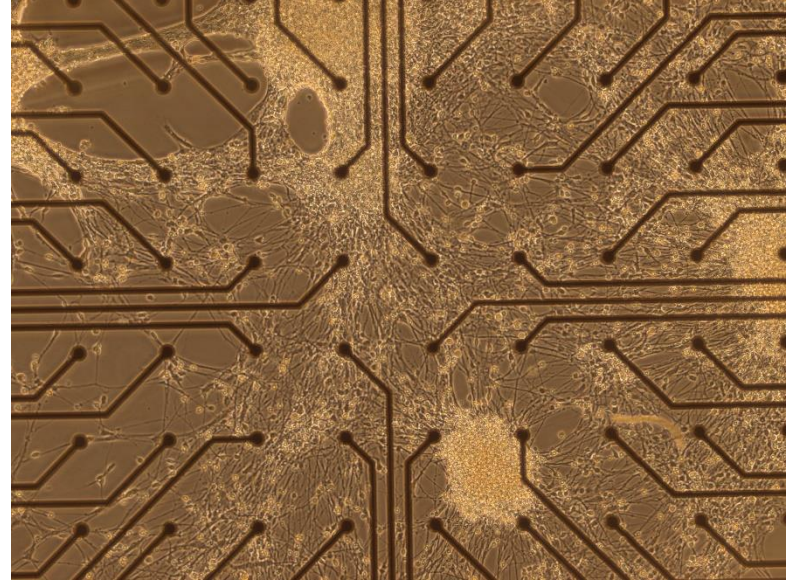


metoda vnuceného napětí
(*voltage clamp*)



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→ *multielectrode array (MEA)*



Metodiky studia elektrofyzologie neuronů

→ *multielectrode array (MEA)*



Metodiky studia elektrofyzologie neuronů

→ *multielectrode array (MEA)*



Studium integrity a odolnosti axonů, ...

→ ***atomic force microscopy (AFM)***

Biophysical Journal Volume 103 August 2012 405–414

Atomic Force Microscopy Reveals Important Differences in Axonal Resistance to Injury

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Mechanosensing is critical for axon growth in the developing brain

Mgr. Jan Příbyl, Ph.D.

Centrální laboratoř Nanobiotechnologie
CEITEC, Masarykova univerzita
Kamenice 5 (pavilon A35), 625 00 Brno

tel.: 549 49 5606

e-mail: jan.pribyl@ceitec.muni.cz

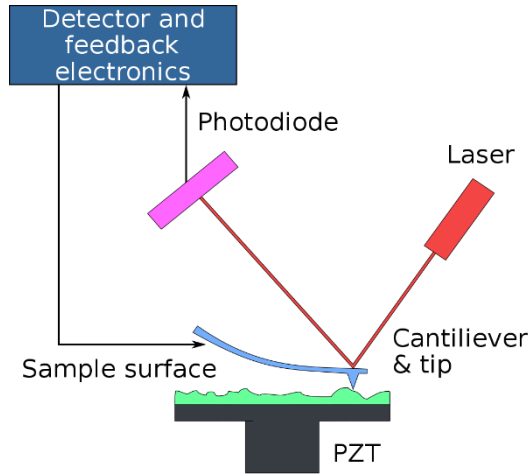
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Atomic Force Microscopy Reveals Important Differences in Axonal Resistance to Injury



https://en.wikipedia.org/wiki/Atomic_force_microscopy

