



## Curriculum Vitae

Personal information **Rune Kjekén**

### Work experience

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1. Employer: Norwegian Medicine Agency
  - Start date: 012017
  - End date:
  - Position: Scientific Director
  - Activities: Scientific assessment of centralised marketing authorisation procedure and clinical trial applications. Centralised and national scientific advice. Support for national HTA.
  - Country: Norway
2. Employer: Norwegian Medicine Agency
  - Start date: 092014
  - End date:
  - Position: Senior Advisor
  - Activities: Scientific assessment of centralised marketing authorisation procedures, clinical trial applications, national scientific advice and national procedures for vaccines and advanced therapy medicinal products
  - Country: Norway
3. Employer: Norwegian Biotechnology Advisory Board
  - Start date: 092013
  - End date: 092014
  - Position: Senior Advisor
  - Activities: Evaluate social and ethical consequences of biotechnology with special emphasis on human medicines.
  - Country: Norway
4. Employer: Norwegian Medicine Agency
  - Start date: 082009
  - End date:
  - Position: Senior Advisor
  - Activities: Scientific assessment of centralised marketing authorisation procedures, clinical trial applications, national scientific advice and national procedures for vaccines and advanced therapy medicinal products
  - Country: Norway
5. Employer: Inovio Biomedical Company
  - Start date: 102005
  - End date: 052009
  - Position: Senior Scientist, Director, Executive Director
  - Activities: Heading research & development including internal Development of pDNA vaccines for Infectious diseases and cancer. Developing methods and medical devices for gene delivery. Responsible for collaborations with academic, GO, NGO and industrial partners on pDNA vaccines and gene therapy projects
  - Country: United States
6. Employer: Inovio AS
  - Start date: 102003
  - End date: 102005
  - Position: Senior Scientist
  - Activities: Developing methods and medical devices for gene delivery.
  - Country: Norway
7. Employer: EMBL, Heidelberg and the Norwegian Cancer Society
  - Start date: 091998
  - End date: 102001
  - Position: Post Doc
  - Activities: Research on cytoskeleton and intracellular trafficking
  - Country: Germany

### Education and training

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1. Subject: University of Oslo
  - Start date: 091993
  - End date: 081998
  - Qualification: PhD
  - Organisation: Molecular cell biology Endocytosis and intracellular transport
  - Country: Norway
2. Subject: University of Oslo
  - Start date: 011990
  - End date: 091993
  - Qualification: MSc
  - Organisation: Molecular Cell Biology Mechanisms of endocytosis
  - Country: Norway

### Additional information

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#### Publications

1. Estein, S. M., Fiorentino, M. A., Paolicchi, F. A., Clause, M., Manazza, J., Cassataro, J., Giambartolomei, G. H., Coria, L. M., Zylberman, V., Fossati, C. A., Kjekén, R. & Goldbaum, F. A. "The polymeric antigen BLSOmp31 confers

protection against *Brucella ovis* infection in rams." Vaccine published ahead of print (2009) 2. Tjelle, T. E., Rabussay, D., Mathiesen, I., Ottensmeir, C. & Kjekken, R. "Taking electroporation based delivery of DNA vaccination into humans: a generic clinical protocol." *Methods Mol Biol* 423: 497\_507 (2008) 3. Liu, J., Kjekken, R., Mathiesen, I. & Barouch, D "Recruitment of Antigen Presenting Cells to the Site of Inoculation and Augmentation of HIV\_1 DNA Vaccine Immunogenicity by In Vivo Electroporation." *J Virol* 82(11)5643\_9 (2008) 4. Ahlén, G., Söderholm, J., Tjelle, T., Kjekken, R., Frelin, L., Höglund, U., Blomberg, B., Fons, M., Mathiesen, I & Sällberg, M "In vivo electroporation promotes intra\_muscular DNA uptake, protein expression, and inflammation at the site of injection, which greatly enhances the immunogenicity of hepatitis C virus non\_structural 3/4A DNA". *J Immunol* 179(7): 4741\_53 (2007) 5. Luckay, A., Sidhu, M.K., Kjekken, R., Megati, S., Chong, S.Y., Ropchand, V., Dorys Garcia\_Hand, D., Abdullah, R., Braun, R., Montefiori, D.C., Rosati, M., Pavlakis, G.N., Mathiesen, I., Israel, Z.R., John H. Eldridge, J.H & Egan, M.A "Effect of plasmid DNA vaccine design and in vivo electroporation on the resulting vaccine specific immune responses in rhesus macaques". *J Virol* 81(10): 5257\_69 (2007) 6. Mousavi, S. A., Sporstol, M., Fladeby, C., Kjekken, R., Barois, N. & Berg, T. "Receptor mediated endocytosis of immune complexes in rat liver endothelial cells is mediated by FcγRIIb". *Hepatology* 46(3): 871\_84 (2007) 7. Kjekken, R., Bogen, B. & Mathiesen, I. "DNA The future in vaccine technology?" *Journal of the Norwegian medical association*, 126, 38\_42. (2006) 8. Tjelle, T. E., Salte, R., Mathiesen, I. & Kjekken, R. "A novel electroporation device for gene delivery in large animals and humans". *Vaccine* 24: 4667-70 (2006) 9. Li, Z., Zhang, H., Fan, X., Zhang, Y., Huang, J., Liu, Q., Tjelle, T. E., Mathiesen, I., Kjekken, R. & Xiong, S. "DNA electroporation prime and protein boost strategy enhances humoral immunity of tuberculosis DNA vaccines in mice and non\_human primates". *Vaccine* 24: 4667-70 (2006) 10. Kjekken R, Mathiesen I., Kvale D & Tjelle T.E. "Clinical evaluation of pain and muscle damage induced by electroporation of skeletal muscle in humans". *Mol Ther*; 9 (157 Suppl): S60 (2004) 11. Tjelle T.E., Kjekken R, Salte, R & Mathiesen, I. "Gene delivery in larger animals". *Mol Ther*; 9 (157 Suppl): S58. (2004) 12. Kjekken, R., Egeberg, M., Habermann, A., Kuehnel, M., Peyron, P., Floetenmeyer, M., Walther, P., Jahraus, A., Kusnetsov, S., Defacque, H. & Griffiths, G. "Fusion between phagosomes, early and late endosomes; a role for actin in fusion between late but not early endocytic organelles". *Mol Biol Cell* 15, 354\_358 (2004) 13. Mousavi, S. A., Berg, T & Kjekken, R. "Clathrin dependent endocytosis". *Biochem J*, 377, 1\_16 (2004) 14. Braaten, H., Mousavi, A., Berg, T. & Kjekken, R. "Fcγ Receptors in the hepatic sinusoid". *Comp Hepatol* 3 Suppl 1, 23, (2004) 15. Mousavi, S. A., Brech, A., Berg, T. & Kjekken, R. "Pi3 kinase regulate lysosomal maturation in Rat Hepatocytes". *Biochem J*, 372, 861\_869, (2003) 16. Kjekken, R., Mousavi, S. A., Brech, A., Griffiths, G. & Berg, T. Wortmannin sensitive trafficking steps in the endocytic pathway in rat liver endothelial cells. *Biochem J*, 357, 497\_503. (2001). 17. Egeberg, M., Kjekken, R., Kolset, S. O., Berg, T. & Prydz, K. "Internalization and stepwise degradation of heparan sulfate proteoglycans in rat hepatocytes". *Biochim Biophys Acta* 1541, 135\_49. (2001). 18. Kjekken, R., Mousavi, S. A. Berg, T.O., Berg, T., Seglen, P.O & Brech, A. "Effects of inhibitors of the vacuolar proton pump on hepatic heterophagy and autophagy". *Biochim Biophys Acta* 1510, 243\_57. (2001). 19. Mousavi, S. A., Kjekken, R., Brech, A., Gjoen, T. & Berg, T. "Fluid phase endocytosis of [125I]iodixanol in rat liver parenchymal, endothelial and Kupffer cells". *Cell Tissue Res* 304, 221\_30. (2001). 20. Løvdal, T., Brech, A., Kjekken, R. & Berg, T. "Endocytosis in hepatic sinusoidal cells". *Cells of the hepatic sinusoids*. Vol. VI. (Wisse, E., Knook, D.L., Mc Cuskey, R.S. eds) Kupffer cell Foundation, Leider (2001) 21. Kjekken, R., Kindberg, G. M. & Berg, T. "Distribution of liposome encapsulated iodixanol in rat liver cells". *Biochem Pharmacol* 60, 553\_9. (2000). 22. Juvet, L., Løvdal, T., Kjekken, R., Berg, T & Gjoen, T. "Role of receptors and endocytosis in hepatic sinusoidal cells". *Cells of the hepatic sinusoids*. Vol. VI. (Wisse, E., Knook, D.L., Mc Cuskey, R.S. eds) Kupffer cell Foundation, Leider (1999) 23. Brech, A. Kjekken, R., Synnes, M., Berg, T & Prydz, K. "Endocytosed ricin and asialoorosomucoid follow different intracellular pathways in hepatocytes". *Biochim Biophys Acta* 1373, 195\_208. (1998). 24. Kjekken, R., Smedsrød, B., Q, Gao., Seljelid, R & Berg, T. "Phagocytosis in Kupffer cells studied by means of stabilized serum albumin microbeads". *Cells of the hepatic sinusoids*. Vol. VI. (Wisse, E., Knook, D.L., Mc Cuskey, R.S. eds) Kupffer cell Foundation, Leider (1996) 25. Brech, A., Lovdahl, T., Kjekken, R., Roos, N. & Berg, T. "Density shift of endocytic vesicles induced by uptake of colloidal gold particles in rat hepatocytes". *Z Gastroenterol* 34 Suppl 3, 79\_80 (1996). 26. Berg, T., Gudmundsen, O., Brech, A., Kjekken, R. & Gjoen, T. "Clathrin dependent and clathrin independent endocytosis in liver cells". *Z Gastroenterol* 34 Suppl 3, 92\_4. (1996). 27. Kjekken, R., Brech, A., Løvdal, T., Roos, N. & Berg, T. "Involvement of early and late lysosomes in the degradation of mannoseylated ligands by rat liver endothelial cells". *Exp Cell Res* 216, 290\_8 (1995). 28. Magnusson, S., Kjekken, R. & Berg, T. "Characterization of two distinct pathways of endocytosis of ricin by rat liver endothelial cells". *Exp Cell Res* 205, 118\_25. (1993). 29. Berg, T., Brech, A., Kjekken, R & Roos, N. "Prelysosomal degradation in rat liver endothelial cells". *Cells of the hepatic sinusoids*. Vol. IV. (Wisse, E., Knook, D.L., Mc Cuskey, R.S. eds) Kupffer cell Foundation, Leider (1993)

## Projects

Involvement in clinical trials: Experimenta therapeutic pDNA vaccine (pDOM\_PSMA 27) for Prostate Cancer. (University of Southampton and Inovio AS) Experimental therapeutic pDNA vaccines for various cancer indications. (Merck and Inovio Biomedical) Patents & Patent applications: "Variable current density single needle electroporation system and method". *Genetronics* January 2011: US 20110009807 Rune Kjekken, Steve Kemmerrer, Feng Lin, Dietmar Rabussay, Thomas Kardos. "Multiple tissue layer electroporation applicator and device". December 2012: US 20120323165 Kate Broderick, Feng Lin, Jay McCoy, Stephen V Kemmerrer, Rune Kjekken "Contactless Electroporation Electrode and Method" *Vgx Pharmaceuticals* February 2012: US 20120046598 Thomas Joseph Kardos, Stephen Vincent Kemmerrer, Rune Kjekken, Kate Broderick, Jay McCoy, Michael P Fons "Tissue Targeting Electroporation System and Method" Filed as a provisional application 4/5/08 serial number 61/124,291 Rune Kjekken, Kate Broderick, Steve Kemmerrer, Jay McCoy, Thomas Kardos. "Device and Method for Single\_Needle in vivo Electroporation". Application no 60/772,255 filed 2/11/06 Rune Kjekken, Iacob Mathiesen, Torunn Tjelle and George Mc Hugh. "Methods of Enhancing Immune Response Using Electroporation Assisted Vaccination and Boosting" Iacob Mathiesen, Torunn Tjelle, Rune Kjekken, Feng Lin and Dietmar Rabussay Serial No. 60/859,724 PCT/US07/24051 filed 11/16/07 WO 2008/06555A2 Pub 5/29/08 US 11/985,871 filed 11/16/07 "Method for Termination of Gene Therapy". Inventor(s): Torunn Tjelle, Rune Kjekken and Iacob Mathiesen. application. Filed as a provisional application no. 60/641,438

## Memberships

## Other Relevant Information