



Universiteit
Leiden
The Netherlands

Take it personal! Genetic differences in G protein-coupled receptors as studied with label-free technology

Hillger, J.M.

Citation

Hillger, J. M. (2017, December 7). *Take it personal! Genetic differences in G protein-coupled receptors as studied with label-free technology*. Retrieved from <https://hdl.handle.net/1887/59477>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/59477>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The following handle holds various files of this Leiden University dissertation:

<http://hdl.handle.net/1887/59477>

Author: Hillger, J.M.

Title: Take it personal! Genetic differences in G protein-coupled receptors as studied with label-free technology

Issue Date: 2017-12-07

STELLINGEN

Behorend bij het proefschrift

Take it personal! Genetic differences in G protein-coupled receptors as studied with label-free technology

1. [Genetic] Variation is the spice of life.
Kruglyak, L. and D.A. Nickerson. Nature Genetics, 2001. 27(3): p. 234-236.
2. The majority of human diseases have a genetic component. Identifying these components will afford truly fundamental insights.
Li, A. and D. Meyre. Current Psychiatry Reviews, 2014. 10(2): p. 91-100.
3. It is apparent that GPCR drug action is much more intricate and nuanced than previously recognized. Formerly unknown or neglected parameters can cause variation which may lead to a lack of efficacy or undesirable side effects.
Jacobson, K.A. Biochem Pharmacol, 2015. 98(4): p. 541-55.
4. Modern medicine is shifting from the prevalent one-size-fits-all paradigm towards a more personalized, customized treatment model, which necessitates a deeper understanding at a molecular level.
Kojima, R., D. Aubel, and M. Fussenegger. Curr Opin Chem Biol, 2015. 28: p. 29-38.
5. For each GPCR there appear to be genetic differences which may impact receptor functionality and drug action.
This thesis
6. Putting labels on things makes life unnecessarily complicated – both with people and receptors.
This thesis
7. Applying label-free technologies to patient samples produces highly “biorelevant” data and with it unique opportunities for drug development and precision medicine.
This thesis
8. LCLs are a suitable cellular model system to study the influence of genetic differences in GPCRs.
This thesis
9. Learn the rules like a student, so you can break them like a scientist.
Adapted quote from Pablo Picasso
10. ‘When you have eliminated the impossible, whatever remains, however improbable, must be the truth.’
Sherlock Holmes, by Sir Arthur Conan Doyle