

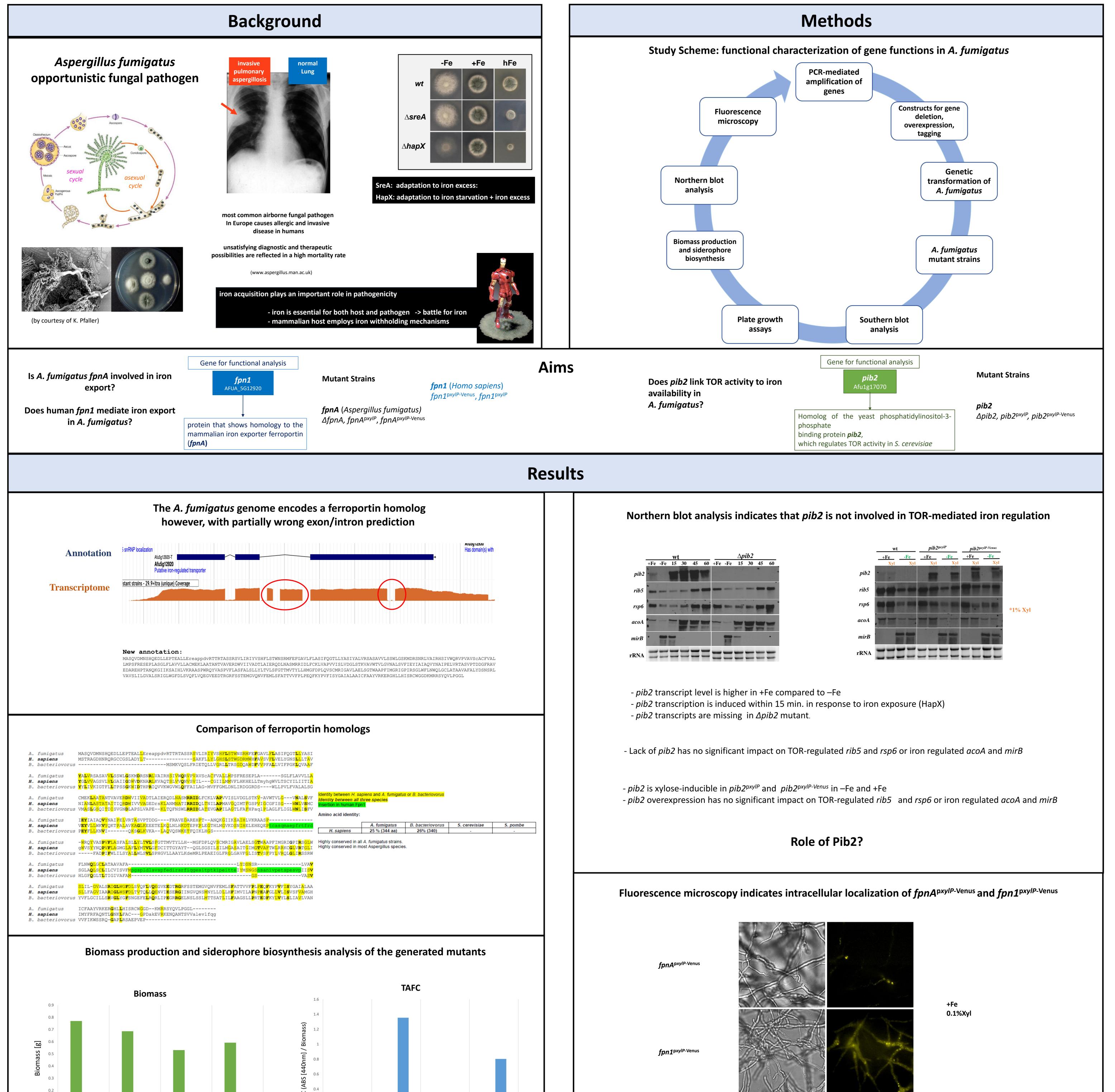
Analysis of Molecular Mechanisms for Adaptation of Aspergillus fumigatus to Iron Limitation

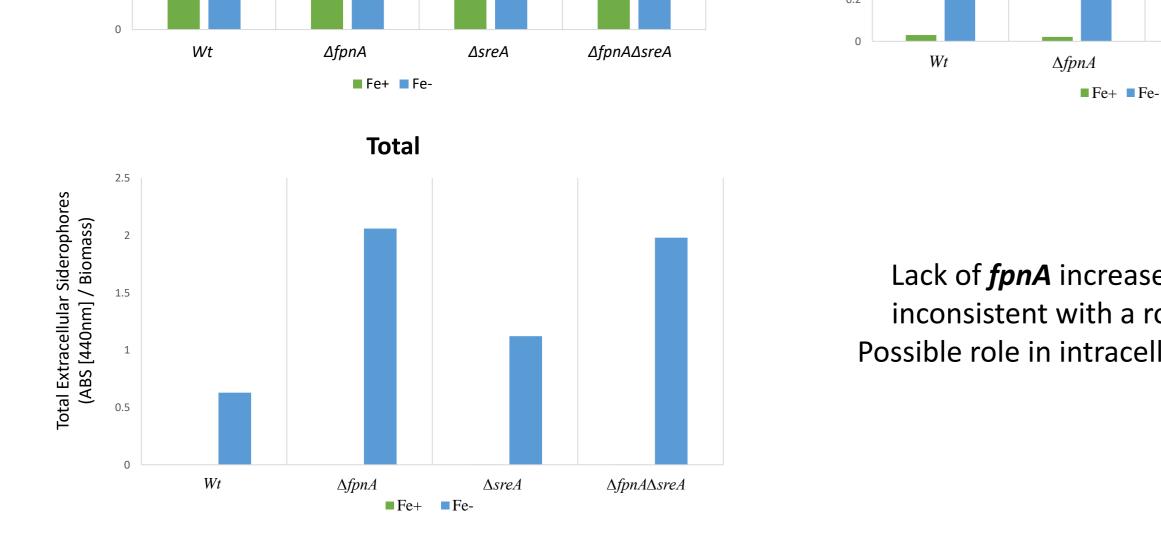


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Lack of *fpnA* increases iron starvation: inconsistent with a role in iron export. Possible role in intracellular iron trafficking?

Asre

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Acknowledgments



HEC

 $\Delta fpnA\Delta sreA$

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Brightfield Venus

Conclusion

- Deletion or overexpression of *fpnA, fpn1* and *pib2* did not impact growth on plates under different iron availability.
- Interestingly, lack of fpnA increased extracellular siderophore production indicating increased iron starvation, which is inconsistent with a role of FpnA in iron export.
- Fluorescence microscopy indicated intracellular localization of Venus-tagged **FpnA**, which might indicate a role of FpnA in intracellular iron trafficking.
- Northern blot analysis confirmed iron regulation of *pib2* expression and indicated that lack of *pib2* does not significantly alter the regulation of the ribosomal protein encoding genes rib5 and rsp6, which suggests that Pib2 is in contrast to *S. cerevisiae* not involved in TOR-mediated regulation.
- The exact functions of FpnA and Pib2 still remain elusive.